



# 2023 Semiannual Groundwater Monitoring and Corrective Action Report

**Plant Yates – Ash Pond 2  
Newnan, Georgia**

August 31, 2023



## 2023 Semiannual Groundwater Monitoring and Corrective Action Report

**Plant Yates – Ash Pond 2**  
**Newman, Georgia**

August 31, 2023

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## Summary

This summary of the 2023 Semiannual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from January to July 2023 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Pond (AP) AP-2 (the Site). Arcadis U.S., Inc. (Arcadis) prepared this summary on behalf of Georgia Power to meet the requirements listed in Part A, Section 6<sup>1</sup> of the U.S. 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 materials resulting from power generation have historically been transferred and stored at the Site. CCR Removal and the six-inch over dig for verification have been completed at Plant Yates AP-2. A certification of removal will be submitted to GA EPD in Q3 2023. On July 11, 2023, the Georgia Environmental Protection Division (GAEPD) approved CCR permit (038-018D (CCR)) for Plant Yates AP-2.

Groundwater at the Site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements. Routine sampling and reporting began in 2017 after the completion of eight background sampling events. Based on groundwater conditions at the Site, an assessment monitoring program was established on January 15, 2018.



During the January to June 2023 reporting period, Arcadis conducted one groundwater sampling event in February. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for February 2023 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III<sup>2</sup> parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV<sup>3</sup> parameters<sup>4</sup>. During the 2023 semiannual reporting period, the Site remained in assessment monitoring.

<sup>1</sup> 80 FR 21468, Apr. 17, 2015, as amended at 81 FR 51807, Aug. 5, 2016; 83 FR 36452, July 30, 2018; 85 FR 53561, Aug. 28, 2020

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

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

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

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Appendix III Parameter	February 2023
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IA
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S
Total Dissolved Solids	YGWC-26I, YGWC-28S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January to June 2023, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to GAEPD semiannually.

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## Acronyms and Abbreviations

Arcadis	Arcadis, Inc.
AP	Ash Pond
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
GAEPD	Georgia Environmental Protection Division
GPC	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
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

## Professional Certification

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report, Plant Yates Ash Pond 2 (AP-2) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4.01.

Arcadis U.S., Inc.



J. Geoffrey Gay, P.E.  
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8.31.23  
Date



# 1 Introduction

This 2023 Semiannual Groundwater Monitoring and Corrective Action Report documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-2 (the Site) in February 2023. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the Site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rules are cited within this report.

This report presents the results from the semiannual monitoring for Appendix III and IV constituents conducted in February 2023 in accordance with 40 CFR § 257.95.

## 1.1 Background

Plant Yates is located on 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. 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 on **Figure 2**. The layout of Plant Yates, the monitoring well network, and other Site features is shown on **Figure 3**.

A permit application to comply with GAEPD rules was approved on July 11, 2023 (038-018D (CCR)). CCR Removal and the six-inch over dig for verification have been completed at Plant Yates AP-2. A certification of removal will be submitted to GA EPD in Q3 2023. AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Semiannual monitoring for the CCR unit is performed in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR Rule and the GAEPD rules for Solid Waste Management 391-3-4-.10(6)(a).

## 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 photos of the Plant Yates area (ACC 2023).

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. The average depth of the water table at Plant Yates varies with topography, ranging from approximately 5 to 50 feet below ground surface. 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 is typically in a range from  $10^{-3}$  to  $10^{-4}$  centimeters per second based on multiple rising-head and falling-head slug tests (ACC 2023). 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 groundwater monitoring system was installed within the uppermost aquifer at the Site. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The detection monitoring well network is summarized in **Table 1**.

As 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 “D” indicates upper bedrock. The CCR unit AP-2 was established along a topographically low area formed by an unnamed tributary. Based on the Site hydrogeology, the monitoring system is designed to monitor groundwater flow in the overburden, the transition zone, and the upper bedrock. The monitoring well network for the Site is illustrated on **Figure 3**.

## 2 Groundwater Monitoring

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

**Table 2** summarizes groundwater sampling events conducted by Arcadis at AP-2 during this annual reporting period. During the February 2023 events, groundwater samples were collected and analyzed for both 40 CFR 257 Appendix III and 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). Field sampling logs are provided in **Appendix A**.

## 2.1 Monitoring Well Installation and Maintenance

Monitoring well YGWC-29I required abandonment due to dam construction along the river. Well abandonment began on October 13, 2022 and was completed on October 17, 2022. Replacement monitoring well YGWC-29IA was installed on January 9 through 10, 2023. Well development was completed on January 27, 2023. A well installation report for YGWC-29IA was submitted to GAEPD on April 10, 2023 under separate cover and is included in **Appendix B**.

Monitoring well-related activities were limited to visual inspection of well conditions before sampling, recording the site conditions, and performing exterior maintenance necessary for sampling under safe and clean conditions. Details regarding the wells are included in **Table 1**, and locations are presented on **Figure 3**.

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In February 2023, monitoring wells were inspected to identify the need for corrective actions as documented in **Appendix A**. There were no maintenance issues during this period that required corrective action.

## 2.2 Assessment Monitoring

AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Monitoring wells at AP-2 were sampled for Appendix III and Appendix IV parameters in February 2023 pursuant to 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1). A summary of the groundwater sampling event is provided in **Table 2**.

# 3 Sampling Methodology and Analysis

Groundwater monitoring methods at the Site are described in the following sections.

## 3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water levels were recorded from piezometers and wells at AP-2 as noted in **Table 3**. Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from the February gauging event. A sitewide potentiometric surface maps for February is provided on **Figure 4**. The AP-2 potentiometric surface map is provided in **Figure 5**. The groundwater flow direction for the saprolite and transition zone wells is generally northeast, southwest, and west toward AP-2 where it flows west to the Chattahoochee River. The groundwater flow direction is consistent with historical patterns. It is interpreted that variations between saprolite/transition zone wells and deep bedrock wells are attributed to

bedrock geologic structural controls, and therefore do not reflect the surficial aquifer potentiometric surface. Based on this interpretation, the deep bedrock potentiometric surface was not used for contouring.

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

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

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n<sub>e</sub> = 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 2023 are presented in **Table 4**. The calculated average groundwater linear flow velocity is approximately 30 feet per year. These calculated groundwater velocities across the Site are generally consistent with historical calculations and with expected velocities in the site-specific geology, thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

## 3.2 Groundwater Sampling

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

An AquaTroll™ 600 (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, and dissolved oxygen [DO]) during well purging to verify stabilization before 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 units for pH;
- ± 5% for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- ±10% or ±0.2 mg/L (whichever is greater) for DO where DO >0.5 mg/L. If DO <0.5 mg/L no stabilization criteria apply.

Once stabilization was achieved, samples were collected directly into laboratory-supplied sample containers with preservative (where applicable). The samples were placed on ice in an insulated cooler following their collection.

The samples were submitted to Pace Analytical Services, LLC following chain-of-custody protocol. Stabilization logs for each well and daily equipment calibration records are included in **Appendix A**.

### 3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from each monitoring well as summarized in **Table 2**. During the February 2023 sampling event, the AP-2 wells were sampled and analyzed for Appendix III parameters as well as for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the events. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports, along with chain-of-custody records included in **Appendix C**.

Analytical data collected from AP-2 and the upgradient wells collected in compliance with the CCR Rule are summarized in **Tables 6a and 6b**. Additional geochemical parameters (i.e., alkalinity, cations) were collected during the February 2023 event; the data are summarized in **Tables 6c and 6d**. Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project.

### 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 per 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/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 February 2023 data validation reports included in **Appendix C** summarizes the validation actions and applicable interpretation.

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

Values followed by a "J" flag indicate 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 was performed on data from the assessment monitoring events pursuant to 40 CFR §§ 257.93–95 following the established, certified statistical methods. The statistical method used at 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 the statistical analyses. Sanitas™ is a decision support software package that incorporates the statistical tests required of Subtitle C and D facilities by USEPA regulations and guidance as recommended in the Unified Guidance document (USEPA 2009). Although assessment monitoring has been implemented, statistical evaluation of Appendix III constituents is performed to determine whether constituents have returned to background conditions.

#### 4.1.1 Appendix III Statistical Methods

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters. This method uses sitewide pooled upgradient monitoring well data to establish a background statistical limit. Data from the February 2023 event were compared to the statistical limit to determine whether concentrations exceeded background levels. The statistical method incorporates an optional 1-of-2 verification resample plan. When an initial statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine whether the result was an outlier. If resampling is performed, and the initial finding is not verified, the resampled value replaces the initial finding. When the resample confirms the initial result, both values remain in the database, and an SSI is declared. The following criteria were applied to the evaluation:

- Statistical analyses were not performed on analytes exhibiting 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, 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

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

when determining the Groundwater Protection Standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under 40 CFR §§ 141.62 and 141.66.
- For the following constituents:
  - Cobalt: 0.006 milligram per liter (mg/L)
  - Lead: 0.015 mg/L
  - Lithium: 0.040 mg/L
  - Molybdenum: 0.100 mg/L.
- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

USEPA revised the federal CCR Rule on July 30, 2018, providing GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR 257.95(h)(2). On February 22, 2022, GA EPD updated the Rules for Solid Waste Management 391-3-4-.10(6) to incorporate updated Federal GWPS where an MCL has not been established. These levels were specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L), except when site specific background concentrations of these constituents are higher. GWPS have been established for statistical comparison of Appendix IV constituents at AP-2. **Table 7** summarizes the background levels established at the monitoring well for the February 2023 sampling event along with the GWPS.

To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV parameters in each downgradient well. Those confidence intervals were compared to the GWPS 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, a statistically significant level (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 to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the February 2023 semiannual event was statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats 2019).

### 4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the February 2023 sampling event presented in **Appendix D**, Appendix III concentrations have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table summarizing these constituents and wells is provided in **Appendix D**.

## 4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the February 2023 Appendix IV data was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No SSLs were identified. Sanitas™ statistical output data for calculation of site-specific background concentrations and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**.

## 5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in January 2018. No statistical exceedance of a GWPS for Appendix IV parameters has been identified. Pursuant to 40 CFR § 257.96(b), GPC will continue to monitor groundwater at AP-2 in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 due to SSLs for Appendix III parameters.

## 6 Conclusions and Future Actions

Statistical evaluations of the groundwater monitoring data for the Site identified no exceedance of a GWPS for an Appendix IV constituent during the February 2023 sampling event. The next assessment monitoring event is scheduled for August 2023. The August semiannual monitoring event will include sampling and analysis of all Appendix III and IV constituents.

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# Tables

**Table 1**  
**Monitoring Network Well Summary**  
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**Georgia Power Company**  
**Plant Yates - AP-2**



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 / Purpose
<b>Upgradient Wells</b>							
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
<b>Detection Wells</b>							
YGWC-26S	10/1/2015	716.28	40.18	676.10	29.88	686.40	Downgradient
YGWC-26I	9/30/2015	715.91	69.81	646.10	59.51	656.40	Downgradient
YGWC-27S	10/7/2015	716.52	40.52	676.00	30.22	686.30	Downgradient
YGWC-27I	10/7/2015	716.19	79.99	636.20	69.69	646.50	Downgradient
YGWC-28S	10/5/2015	717.95	44.95	673.00	34.65	683.30	Downgradient
YGWC-28I	10/5/2015	717.93	69.93	648.00	59.63	658.30	Downgradient
YGWC-29I <sup>1</sup>	10/1/2015	717.39	39.59	677.80	29.29	688.10	Downgradient
YGWC-29IA	1/10/2023	711.80	35.30	677.40	25.30	687.40	Downgradient
<b>Assessment Wells/Piezometers</b>							
PZ-1S	5/20/2014	836.84	36.34	800.50	26.04	810.80	Piezometer
PZ-3S	5/20/2014	796.39	42.39	754.00	32.09	764.30	Piezometer
PZ-13S	5/20/2014	807.79	43.79	764.00	33.49	774.30	Piezometer
PZ-13I	5/20/2014	807.62	59.22	748.40	48.92	758.70	Piezometer
PZ-14I	5/20/2014	749.06	50.86	698.20	40.56	708.50	Piezometer
PZ-25S	9/2/2015	766.60	56.80	709.80	46.50	720.10	Piezometer
PZ-25I	9/3/2015	766.38	84.58	681.80	74.28	692.10	Piezometer
PZ-31S	9/24/2015	738.62	34.72	703.90	24.42	714.02	Piezometer

**Notes:**

<sup>1</sup> YGWC-29I was abandoned on October 13-14, 2022. YGWC-29IA was installed on January 9-10, 2023 as a replacement well. Elevation is presented in U.S. Survey Feet (North American Vertical Datum of 1988).

**Acronyms and Abbreviations:**

bTOC = below top of casing

ft = feet

**Table 2**  
**Groundwater Sampling Plan**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates - AP-2**

Well ID	Hydraulic Location	Semiannual Monitoring <sup>1</sup>
		February 7 - 9, 2023
YGWA-4I	Upgradient <sup>2</sup>	X
YGWA-5I	Upgradient <sup>2</sup>	X
YGWA-5D	Upgradient <sup>2</sup>	X
YGWA-17S	Upgradient <sup>2</sup>	X
YGWA-18S	Upgradient <sup>2</sup>	X
YGWA-18I	Upgradient <sup>2</sup>	X
YGWA-20S	Upgradient <sup>2</sup>	X
YGWA-21I	Upgradient <sup>2</sup>	X
YGWA-39	Upgradient <sup>2</sup>	X
YGWA-40	Upgradient <sup>2</sup>	X
YGWA-47	Upgradient <sup>2</sup>	X
GWA-2	Upgradient <sup>2</sup>	X
YGWA-1I	Upgradient	X
YGWA-1D	Upgradient	X
YGWA-2I	Upgradient	X
YGWA-3I	Upgradient	X
YGWA-3D	Upgradient	X
YGWA-14S	Upgradient	X
YGWA-30I	Upgradient	X
YGWC-26S	Downgradient	X
YGWC-26I	Downgradient	X
YGWC-27S	Downgradient	X
YGWC-27I	Downgradient	X
YGWC-28S	Downgradient	X
YGWC-28I	Downgradient	X
YGWC-29IA	Downgradient	X

**Notes:**

- 1. All wells analyzed for Appendix III and Appendix IV.
  - 2. Pooled upgradient wells
- Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.  
Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.

**Table 3**  
**Summary of Groundwater Elevations - February 2023**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates - AP-2**



Well ID	Date	TOC Elevation (ft)	Depth to Water (bTOC)	Groundwater Elevation (ft)
<b>Downgradient Wells</b>				
YGWC-26S	2/6/2023	716.28	24.55	691.73
YGWC-26I	2/6/2023	715.91	25.39	690.52
YGWC-27S	2/6/2023	716.52	26.94	689.58
YGWC-27I	2/6/2023	716.19	26.92	689.27
YGWC-28S <sup>1</sup>	2/6/2023	717.95	NM	NM
YGWC-28I <sup>1</sup>	2/6/2023	717.93	NM	NM
YGWC-29IA	2/6/2023	717.39	20.01	697.38
PZ-01S	2/6/2023	836.84	33.66	803.18
PZ-03S	2/6/2023	796.39	37.35	759.04
PZ-13S	2/6/2023	807.79	37.10	770.69
PZ-13I	2/6/2023	807.62	40.96	766.66
PZ-14I	2/6/2023	749.06	20.67	728.39
PZ-25S	2/6/2023	766.60	47.07	719.53
PZ-25I	2/6/2023	766.38	50.56	715.82
PZ-31S	2/6/2023	738.62	30.81	707.81
<b>Upgradient Wells</b>				
YGWA-4I	2/6/2023	784.21	23.64	760.57
YGWA-5I	2/6/2023	784.54	19.18	765.36
YGWA-5D	2/6/2023	784.53	19.36	765.17
YGWA-17S	2/6/2023	783.05	11.57	771.48
YGWA-18S	2/6/2023	790.57	20.73	769.84
YGWA-18I	2/6/2023	790.57	23.66	766.91
YGWA-20S	2/6/2023	767.12	10.99	756.13
YGWA-21I	2/6/2023	783.70	30.07	756.10
YGWA-39	2/6/2023	818.19	17.74	800.45
YGWA-40	2/6/2023	815.73	23.02	792.71
YGWA-1I	2/6/2023	836.60	39.05	797.55
YGWA-1D	2/6/2023	837.25	49.84	787.41
YGWA-2I	2/6/2023	866.25	46.06	820.19
YGWA-3I	2/6/2023	796.55	52.27	744.28
YGWA-3D	2/6/2023	796.78	31.84	764.94
YGWA-14S	2/6/2023	748.76	19.70	729.06
YGWA-30I	2/6/2023	762.58	44.74	717.84
YGWA-47	2/6/2023	758.22	35.37	722.85
GWA-2	2/6/2023	805.62	37.46	768.16

**Notes:**

1. Due to dam-related construction, YGWC-28S and YGWC-28I were inaccessible during the gauging event, and therefore water levels were not collected.

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

**Acronyms and Abbreviations:**

bTOC = below top of casing

ft = feet

NM - not measured

TOC = top of casing

Equation

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

where: V = groundwater velocity  
 K = i = hydraulic conductivity  
 dh/dl = i = hydraulic gradient  
 n<sub>e</sub> = effective porosity

Values Used in Calculation

Value			Source	
K <sub>max</sub> :	3.02E-03	cm/sec	See note 1	
	8.57	ft/day		
K <sub>min</sub> :	1.00E-06	cm/sec		
	0.003	ft/day		
K <sub>avg</sub>	1.50E-04	cm/sec		
	0.43	ft/day		
Distance from:				
PZ-01S to YGWA-14S	2,610	feet		
PZ-13S to YGWC-27S	1,699	feet		
YGWA-14S to PZ-31S	575	feet		
<b>Groundwater Elevation</b>			<b>Date Collected:</b>	
PZ-01S	803.18	feet	February 2023	
YGWA-14S	729.06			
PZ-13S	770.69			
YGWC-27S	689.58			
YGWA-14S	729.06			
PZ-31S	707.81			
i <sub>1</sub> = 0.028	unitless	<b>Hydraulic gradient from:</b>		
i <sub>2</sub> = 0.048	unitless	PZ-01S to YGWA-14S (Feb. 2023)		
i <sub>3</sub> = 0.037	unitless	PZ-13S to YGWC-27S (Feb. 2023)		
i <sub>avg</sub> = 0.038	unitless	YGWA-14S to PZ-31S (Feb. 2023)		
		Average		
n <sub>e</sub> = 0.20	unitless	See note 2		

**Table 4**  
**Groundwater Flow Velocity Calculation - February 2023**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates - AP-2**

Minimum Linear Flow Velocity

February 2023

$$V_{\min} = \frac{(0.003)(0.038)}{0.20}$$

Maximum Linear Flow Velocity

February 2023

$$V_{\max} = \frac{(8.57)(0.038)}{0.20}$$

$$V_{\min} = 0.0006 \text{ ft/day, or } 0.2 \text{ ft/year}$$

$$V_{\max} = 1.6 \text{ ft/day, or } 584 \text{ ft/year}$$

Average Linear Flow Velocity

February 2023

$$V_{\text{avg}} = \frac{(0.43)(0.038)}{0.2}$$

$$V_{\text{avg}} = 0.082 \text{ ft/day, or } 30 \text{ ft/year}$$

**Notes:**

1. Slug tests performed by Atlantic Coast Consulting, Inc. at AP-2 (2014-2017)
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989)

**Table 5**  
**Summary of Groundwater Monitoring Parameters**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-2**



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

**Notes:**

CFR = Code of Federal Regulations



Table 6a  
 Groundwater Analytical Data - February 2023  
 2023 Semiannual Groundwater Monitoring and Corrective Action Report  
 Georgia Power Company  
 Plant Yates - AP-2



	Analyte	YGWC-26S	YGWC-26I	YGWC-27S	YGWC-27I	YGWC-28S	YGWC-28I	YGWC-29IA
		2/9/2023	2/9/2023	2/9/2023	2/9/2023	2/9/2023	2/9/2023	2/8/2023
Appendix III	pH	5.76	5.64	6.48	6.64	6.70	6.87	6.67
	Boron	0.75	0.74	2.2	1.0	1.8	2.3	0.90
	Calcium	15.8	10.7	26.9	20.1	27.7	33.1	11.9
	Chloride	16.6	15.1	13.9	11.5	11.5	18.1	10.4
	Fluoride	0.088 J	0.070 J	0.10	0.12	0.14	0.18	0.092 J
	Sulfate	84.2	89.7	3.2	13.7	7.4	16.0	23.7
	Total Dissolved Solids	366	196	189	116	184	226	158
Appendix IV	Antimony	< 0.00078	< 0.00078	0.0014 J	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	0.0024 J	0.0022 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
	Barium	0.058	0.028	0.076	0.049	0.070	0.22	0.098
	Beryllium	< 0.000054	0.000068 J	0.00010 J	< 0.000054	< 0.000054	< 0.000054	< 0.000054
	Cadmium	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00028 J
	Chromium	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0034 J	< 0.0011
	Cobalt	< 0.00039	0.0017 J	0.0083	0.0015 J	< 0.00039	0.00074 J	0.0053
	Fluoride	0.088 J	0.070 J	0.10	0.12	0.14	0.18	0.092 J
	Lead	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	0.0075 J	< 0.00073	0.0069 J	< 0.00073	0.0066 J	< 0.00073	0.012 J
	Mercury	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	< 0.00074	< 0.00074	0.0019 J	< 0.00074	0.0014 J	0.00083 J	0.00099 J
	Combined Radium - 226/228	1.05 U	0.460 U	2.56 U	0.348 U	0.164 U	0.733 U	0.963 U
	Selenium	0.0042 J	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	0.00021 J

**Notes:**  
 1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.  
 Appendix III = Constituents for Detection Monitoring - 40 CFR Part 257 Appendix III.  
 Appendix IV = Constituents for Assessment Monitoring - 40 CFR Part 257 Appendix IV.  
 < Analyte was not detected above the laboratory method detection limit (MDL).

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

	Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I
			2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/8/2023	2/9/2023
Appendix III	pH	SU	5.94	6.53	7.86	6.94	7.73	7.88	6.23
	Boron	mg/l	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086	< 0.0086
	Calcium	mg/l	22.3	2.2	15.0	25.6	23.3	28.9	9.6
	Chloride	mg/l	6.1	1.5	1.3	1.1	1.1	1.2	4.5
	Fluoride	mg/l	0.095 J	0.071 J	0.093 J	0.12	0.16	0.56	0.067 J
	Sulfate	mg/l	82.4	6.6	10.6	17.8	14.7	7.5	8.9
	Total Dissolved Solids	mg/l	207	121	131	159	145	144	124
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0024 J	0.0030 J	< 0.0022
	Barium	mg/l	0.034	0.21	0.14	0.0026 J	0.0029 J	0.0048 J	0.014
	Beryllium	mg/l	< 0.000054	0.00054	0.0011	< 0.000054	< 0.000054	< 0.000054	< 0.000054
	Cadmium	mg/l	0.00012 J	< 0.00011	< 0.00011	< 0.00011	0.00013 J	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	0.0013 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.034	0.0048 J	0.00097 J	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0022 J	0.0029 J	0.0060 J	0.0047 J	0.018 J	0.023 J	0.014 J
	Mercury	mg/l	0.00013 J	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	0.0061 J	0.0065 J	0.012	< 0.00074
	Combined Radium - 226/228	pCi/l	1.00	0.661 U	0.920 U	0.536 U	1.18	2.74	1.12
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

**Notes:**

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

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

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

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

**Laboratory Qualifiers:**

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

	Analyte	Units	YGWA-5I	YGWA-5D	YGWA-14S	YGWA-17S	YGWA-18I	YGWA-18S	YGWA-20S
			2/9/2023	2/7/2023	2/8/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023
Appendix III	pH	SU	5.90	6.64	5.39	5.47	6.00	5.03	6.82
	Boron	mg/l	< 0.0086	< 0.0086	0.015 J	0.014 J	< 0.0086	< 0.0086	< 0.0086
	Calcium	mg/l	2.8	26.6	1.5	2.9	5.5	0.79 J	7.5
	Chloride	mg/l	5.0	3.3	4.9	11.4	7.4	6.4	2.4
	Fluoride	mg/l	< 0.050	0.082 J	0.059 J	< 0.050	< 0.050	< 0.050	0.10
	Sulfate	mg/l	2.9	5.2	6.1	4.9	0.78 J	1.2	3.8
	Total Dissolved Solids	mg/l	59.0	180	56.0	78.0	96.0	55.0	163
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	0.0013 J	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	< 0.0022	0.0030 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	0.0028 J
	Barium	mg/l	0.019	0.0075	0.0089	0.017	0.019	0.012	0.010
	Beryllium	mg/l	< 0.000054	< 0.000054	0.00022 J	0.000096 J	< 0.000054	0.000071 J	< 0.000054
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	0.00012 J
	Chromium	mg/l	0.0012 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0016 J	< 0.0011
	Cobalt	mg/l	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	0.014
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0036 J	0.0059 J	< 0.00073	< 0.00073	0.0030 J	0.0012 J	0.0059 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	0.00018 J	0.00013 J	0.00017 J	0.00017 J
	Molybdenum	mg/l	< 0.00074	0.00095 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.0815 U	3.99	0.830 U	0.367 U	0.485 U	0.656 U	1.53
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

**Notes:**

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

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

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

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

**Laboratory Qualifiers:**

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

	Analyte	Units	YGWA-211	YGWA-301	YGWA-39	YGWA-40	YGWA-47
			2/7/2023	2/8/2023	2/7/2023	2/8/2023	2/8/2023
Appendix III	pH	SU	6.94	6.43	5.49	5.71	5.22
	Boron	mg/l	< 0.0086	< 0.0086	0.13	0.057	0.011 J
	Calcium	mg/l	25.6	1.3	16.1	5.9	9.2
	Chloride	mg/l	1.1	1.6	5.6	6.9	3.5
	Fluoride	mg/l	0.12	0.064 J	0.076 J	< 0.050	0.077 J
	Sulfate	mg/l	17.8	0.96 J	9.7	17.5	50.5
	Total Dissolved Solids	mg/l	159	43.0	224	115	141
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	< 0.0022	< 0.0022	0.0029 J	< 0.0022	< 0.0022
	Barium	mg/l	0.0026 J	0.0066	0.030	0.037	0.031
	Beryllium	mg/l	< 0.000054	< 0.000054	< 0.000054	0.00026 J	< 0.000054
	Cadmium	mg/l	< 0.00011	< 0.00011	0.00014 J	< 0.00011	0.00032 J
	Chromium	mg/l	< 0.0011	0.0021 J	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	0.0031 J	0.00066 J	< 0.00039	0.0011 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0047 J	0.0011 J	0.0065 J	0.00074 J	0.0037 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	0.0061 J	< 0.00074	0.0045 J	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.536 U	0.417 U	1.41	1.56	0.375 U
	Selenium	mg/l	< 0.0014	< 0.0014	< 0.0014	< 0.0014	< 0.0014
	Thallium	mg/l	< 0.00018	< 0.00018	< 0.00018	< 0.00018	< 0.00018

**Notes:**

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

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

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

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

**Laboratory Qualifiers:**

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

Table 6c  
 Groundwater Analytical Data (Additional Parameters) - February 2023  
 2023 Semiannual Groundwater Monitoring and Corrective Action Report  
 Georgia Power Company  
 Plant Yates - AP-2



Analyte	Units	YGWC-26S	YGWC-26I	YGWC-27S	YGWC-27I	YGWC-28S
		2/9/2023	2/9/2023	2/9/2023	2/9/2023	2/9/2023
Alkalinity	mg/L as CaCO <sub>3</sub>	12.1	30.3	96.4	148	171
Alkalinity, Bicarbonate	mg/L as CaCO <sub>3</sub>	12.1	30.3	96.4	148	171
Alkalinity, Carbonate	mg/L as CaCO <sub>3</sub>	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/L	14.0	11.1	7.1	16.2	23.0
Potassium	mg/L	0.82	2.1	1.5	4.0	4.0
Sodium	mg/L	17.3	21.8	15.7	11.7	12.1

**Notes:**

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

**Table 6c**  
**Groundwater Analytical Data (Additional Parameters) - February 2023**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates - AP-2**

Analyte	Units	YGWC-28I	YGWC-29IA
		2/9/2023	2/8/2023
Alkalinity	mg/L as CaCO <sub>3</sub>	146	86.0
Alkalinity, Bicarbonate	mg/L as CaCO <sub>3</sub>	146	86.0
Alkalinity, Carbonate	mg/L as CaCO <sub>3</sub>	< 5.0	< 5.0
Magnesium	mg/L	16.1	10.7
Potassium	mg/L	5.7	9.1
Sodium	mg/L	8.9	14.9

**Notes:**

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

Table 6d  
 Upgradient Groundwater Analytical Data (Additional Parameters) - February 2023  
 2023 Semiannual Groundwater Monitoring and Corrective Action Report  
 Georgia Power Company  
 Plant Yates - AP-2



Analyte	Units	GWA-2	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I	YGWA-5I	YGWA-5D
		2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/8/2023	2/9/2023	2/9/2023	2/7/2023
Alkalinity	mg/L as CaCO <sub>3</sub>	62.4	20.4	65.4	87.6	92.2	106	57.7	26.4	96.5
Alkalinity, Bicarbonate	mg/L as CaCO <sub>3</sub>	62.4	20.4	65.4	87.6	92.2	106	57.7	26.4	96.5
Alkalinity, Carbonate	mg/L as CaCO <sub>3</sub>	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/L	19.3	1.5	1.9	4.1	5.4	3.6	5.3	2.7	4.6
Potassium	mg/L	9.5	2.0	4.8	5.1	5.3	3.5	4.1	1.6	3.7
Sodium	mg/L	8.1	5.6	11.5	9.0	9.4	9.9	9.9	10.8	9.7

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

Table 6d  
 Upgradient Groundwater Analytical Data (Additional Parameters) - February 2023  
 2023 Semiannual Groundwater Monitoring and Corrective Action Report  
 Georgia Power Company  
 Plant Yates - AP-2



Analyte	Units	YGWA-14S	YGWA-17S	YGWA-18I	YGWA-18S	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39	YGWA-40
		2/8/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/7/2023	2/8/2023	2/7/2023	2/8/2023
Alkalinity	mg/L as CaCO <sub>3</sub>	13.0	15.6	36.0	9.3	23.3	78.4	15.4	177	27.6
Alkalinity, Bicarbonate	mg/L as CaCO <sub>3</sub>	13.0	15.6	36.0	9.3	23.3	78.4	15.4	177	27.6
Alkalinity, Carbonate	mg/L as CaCO <sub>3</sub>	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0	< 5.0
Magnesium	mg/L	1.6	0.98	3.1	0.91	0.58	3.9	0.92	21.7	3.4
Potassium	mg/L	0.87	0.41	0.96	0.50	0.55	3.2	0.55	6.6	2.2
Sodium	mg/L	9.5	14.2	12.6	7.8	8.7	20.4	6.0	28.1	10.1

**Notes:**

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



**Table 6d**  
**Upgradient Groundwater Analytical Data (Additional Parameters) - February 2023**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates - AP-2**

Analyte	Units	YGWA-47
		2/8/2023
Alkalinity	mg/L as CaCO <sub>3</sub>	37.8
Alkalinity, Bicarbonate	mg/L as CaCO <sub>3</sub>	37.8
Alkalinity, Carbonate	mg/L as CaCO <sub>3</sub>	< 5.0
Magnesium	mg/L	10
Potassium	mg/L	3.7
Sodium	mg/L	11.4

**Notes:**

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

**Table 7**  
**Background Levels and Groundwater Protection Standards**  
**2023 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates - AP-2**



Constituent	Units	Background	GWPS
<b>February 2023</b>			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.21	2.00
Beryllium	mg/L	0.0011	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 <sup>2</sup>
Fluoride	mg/L	0.680	4.00
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.014	0.100
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 <sup>2</sup>

**Notes:**

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

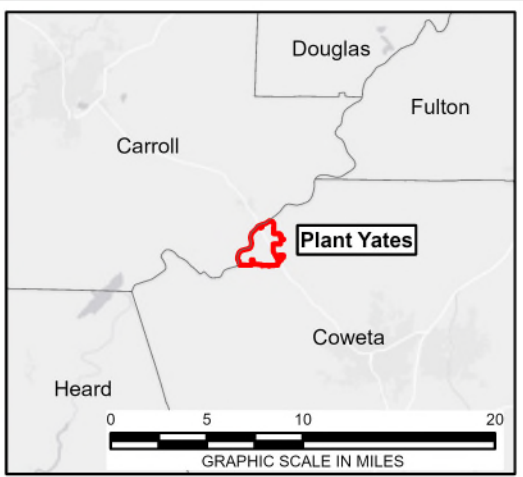
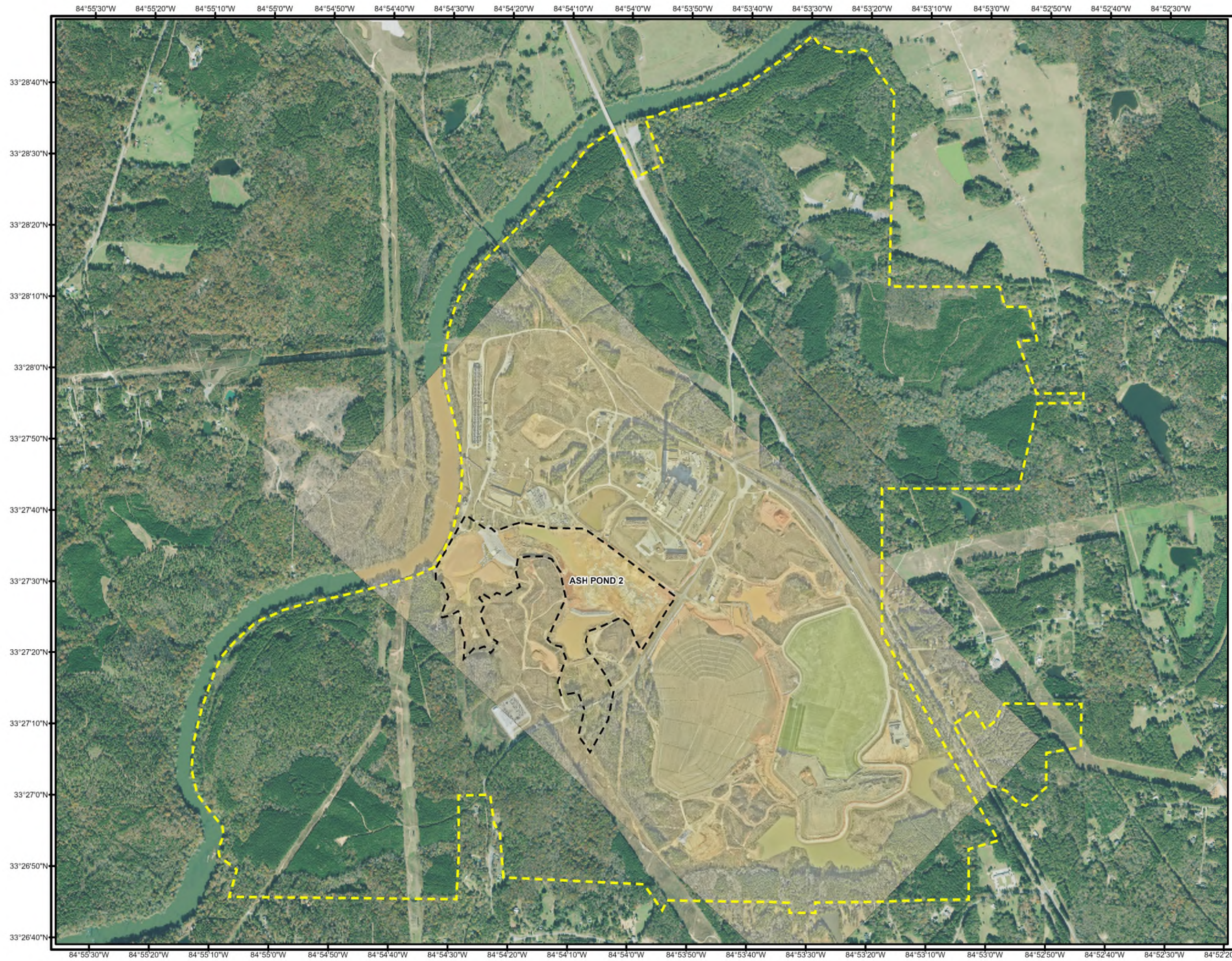
**Acronyms and Abbreviations:**

MCL = Maximum Contaminant Level

mg/L = milligrams per liter

pCi/L = picocuries per liter

# Figures

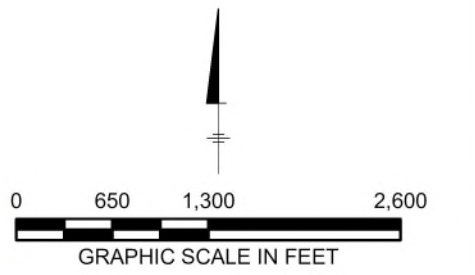


**LEGEND**

--- APPROXIMATE PROPERTY BOUNDARY

--- PERMITTED UNIT BOUNDARY

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE  
 GEORGIA WEST FIPS 1002 FEET

**Georgia Power**  
 PLANT YATES AP-2  
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 AND CORRECTIVE ACTION REPORT

**SITE LOCATION MAP**

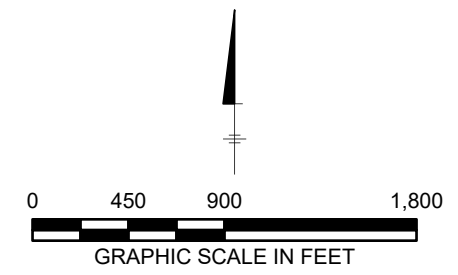
**ARCADIS** | **FIGURE 1**



**LEGEND**

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 8/31/2023

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE  
 GEORGIA WEST FIPS 1002 FEET

**Georgia Power**  
 PLANT YATES AP-2  
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**PLANT YATES CCR REMOVAL AREAS**

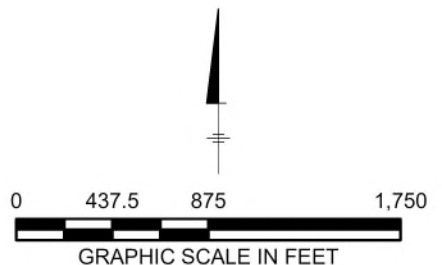
84°54'55"W 84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W



**LEGEND**

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

**NOTES:**  
 1. YGWC-29I WAS ABANDONED ON OCTOBER 17, 2022. REPLACEMENT WELL YGWC-29IA WAS INSTALLED THE WEEK OF JANUARY 9, 2023.  
 2. AERIAL IMAGE SOURCES: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



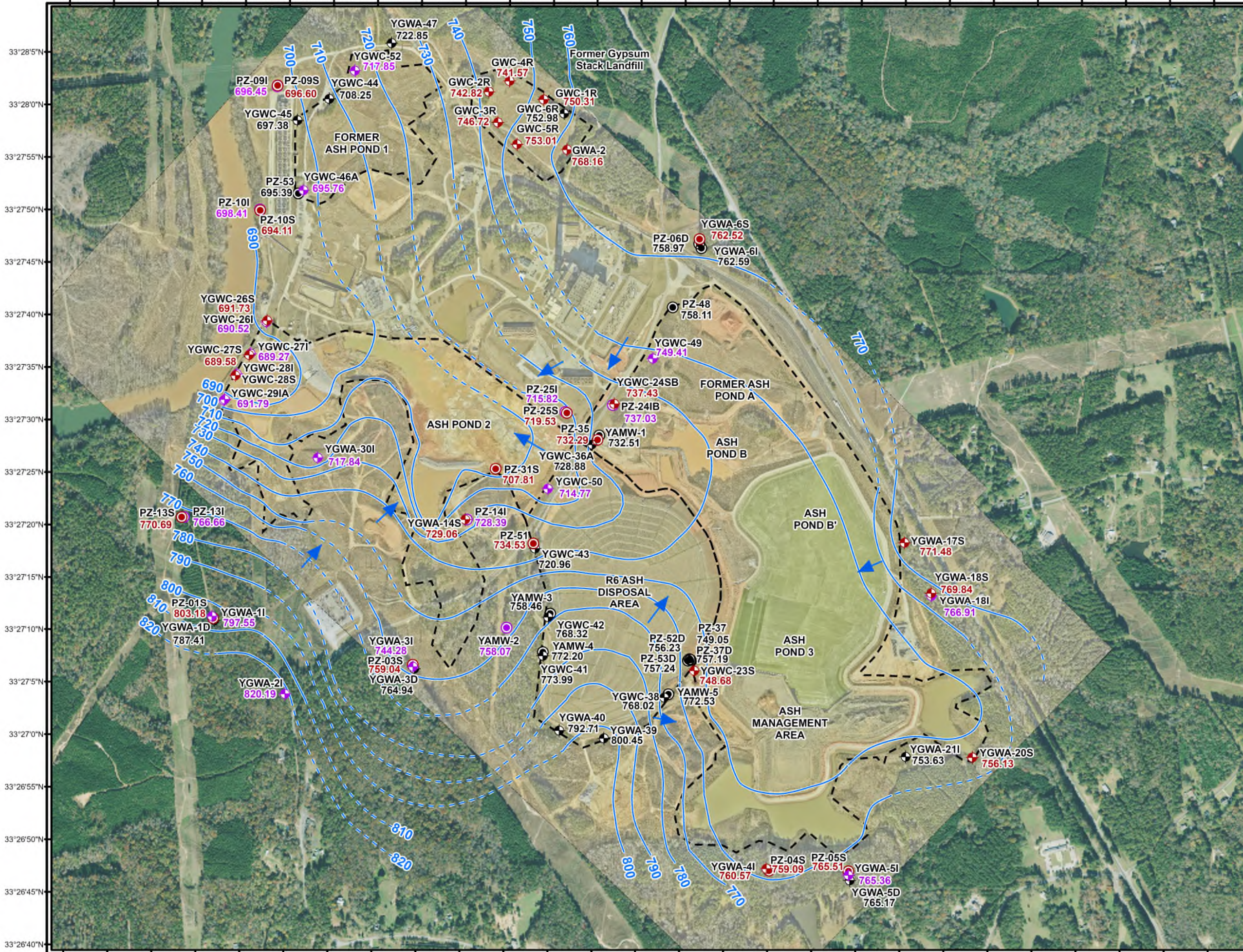
COORDINATE SYSTEM: NAD 1983 STATEPLANE  
 GEORGIA WEST FIPS 1002 FEET

**Georgia Power**  
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**WELL LOCATION MAP**

84°54'55"W 84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W

84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W 84°52'45"W 84°52'40"W



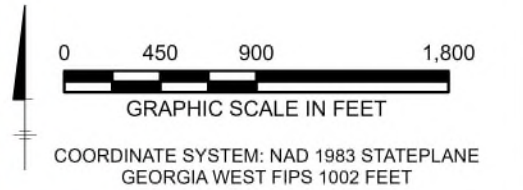
**LEGEND**

- 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

757.11 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: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.
5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 6, 2023.
7. YGWC-28S AND YGWC-28I WERE INACCESSIBLE DURING THE GAUGING EVENT DUE TO SURROUNDING CONSTRUCTION ACTIVITIES AND RAILINGS FOR WELL ACCESS WELL HAD NOT BEEN CONSTRUCTED.



**Georgia Power**  
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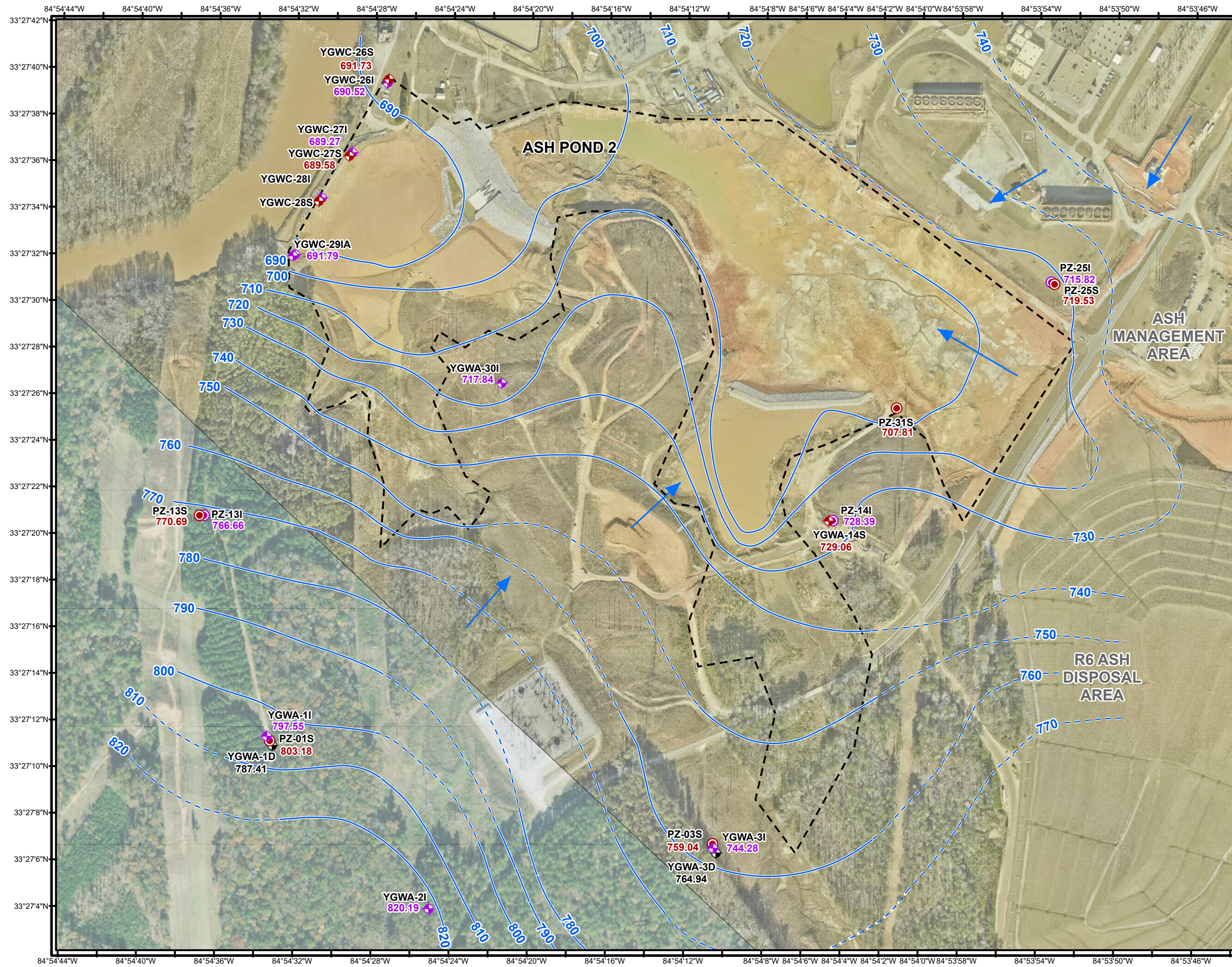
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**SITEWIDE  
GROUNDWATER ELEVATION MAP  
FEBRUARY 2023**

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**ARCADIS** FIGURE  
**4**

84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W 84°52'45"W 84°52'40"W

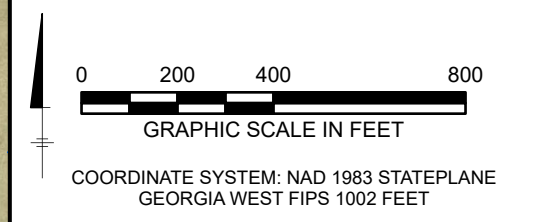


### LEGEND

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

**690.92 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 WELL GROUNDWATER ELEVATIONS NOT USED FOR CONTOURING.
  3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.
  4. AERIAL IMAGE SOURCES: JANUARY 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.
  5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
  6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 6, 2023.
  7. YGWC-28S AND YGWC-28I WERE INACCESSIBLE DURING THE GAUGING EVENT DUE TO SURROUNDING CONSTRUCTION ACTIVITIES AND RAILINGS FOR WELL ACCESS WELL HAD NOT BEEN CONSTRUCTED.



**Georgia Power**  
PLANT YATES AP-2  
NEWNAN, GA  
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**GROUNDWATER ELEVATION MAP  
FEBRUARY 2023**



# Appendix A

## Field Sampling Forms (February 2023)

**February 2023 Daily Calibration Log**

Project Plant Yates

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

**Instrument Calibration**

**Date: 02/07/2023 Initial**

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

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

**Date: 02/07/2023 Time: Midday**

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

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

**Notes:**

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

**February 2023 Daily Calibration Log**

Project Plant Yates

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

**Instrument Calibration**

**Date: 02/08/2023 Initial**

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

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

**Date: 02/08/2023 Time: Midday**

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

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

**Notes:**

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

**February 2023 Daily Calibration Log**

Project Plant Yates

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

**Instrument Calibration**

**Date: 02/09/2023 Initial**

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

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

**Date: 02/09/2023 Time: Midday**

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

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

**Notes:**

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

## February 2023 Daily Calibration Log

Project Plant Yates

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

### Instrument Calibration

Date: 02/10/2023 Initial

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

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

#### Notes:

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

<b>Client:</b>		Georgia Power			
<b>Project Location:</b>		AP-2			
<b>Date:</b>		2/6/2023			
<b>Sampler:</b>		Jake Swanson			
<b>Equipment:</b>		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-27S	2/6/2023	00:41:00	26.94	40.52	--
PZ-25I	2/6/2023	01:06:00	50.56	84.58	--
PZ-25S	2/6/2023	01:08:00	47.07	56.80	--
YGWA-30I	2/6/2023	01:38:00	44.74	59.48	--
PZ-31S	2/6/2023	01:54:00	30.81	34.72	--
PZ-14I	2/6/2023	02:11:00	20.67	50.86	--
YGWA-14S	2/6/2023	02:12:00	19.70	34.96	--
YGWC-26I	2/6/2023	12:02:00	25.39	69.81	--
YGWC-26S	2/6/2023	12:04:00	24.55	40.18	--
YGWC-27I	2/6/2023	12:43:00	26.92	79.99	--

<b>Client:</b>		Georgia Power			
<b>Project Location:</b>		AP-2			
<b>Date:</b>		2/6/2023			
<b>Sampler:</b>		Kim Lapszynski			
<b>Equipment:</b>		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
PZ-3S	2/6/2023	10:55:00	37.35	42.39	--
YGWA-3I	2/6/2023	10:56:00	52.27	59.05	--
YGWA-3D	2/6/2023	10:57:00	31.84	134.18	--
YGWA-2I	2/6/2023	11:06:00	46.06	63.75	--
YGWA-1D	2/6/2023	11:10:00	49.84	128.85	--
PZ-1S	2/6/2023	11:11:00	33.66	36.34	--
YGWA-1I	2/6/2023	11:12:00	39.05	53.60	--
PZ-13I	2/6/2023	11:15:00	40.96	59.22	--
PZ-13S	2/6/2023	11:17:00	37.10	43.79	--

# Groundwater Sampling Form

Updated : 2/22/2023 10:07:11 AM -05:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-26S	<b>Date</b>	02/09/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	65.3 degrees F and Cloudy. The wind is blowing SW at 9.2 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	29.88	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	24.65	<b>Total Depth (ft-bmp)</b>	40.18	<b>Water Column(ft)</b>	15.53	<b>Gallons in Well</b>	2.52
<b>MP Elevation</b>	716.28	<b>Pump Intake (ft-bmp)</b>	37	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	17:05	<b>Well Volumes Purged</b>	0.37	<b>Sample ID</b>	YAT-YGWC-26S	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	16:22	<b>Gallons Purged</b>	0.92	<b>Replicate/ Code No.</b>	YaT-AP2-FB-2	<b>Color</b>	Clear
<b>Purge End</b>	16:57						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:22:00	00:00	100	24.65	6.65	275.71	1.91	7.90	17.8	82.35
16:27:00	05:00	100	25.13	5.66	273.85	2.45	3.13	18.5	125.47
16:32:00	10:00	100	25.15	5.62	272.84	2.71	1.83	18.6	143.80
16:37:00	15:00	100	25.18	5.63	272.55	2.24	1.52	18.6	153.57
16:42:00	20:00	100	25.22	5.63	272.55	1.73	1.30	18.6	159.31
16:47:00	25:00	100	25.3	5.63	272.49	1.84	1.10	18.5	162.91
16:52:00	30:00	100	25.32	5.63	272.52	1.14	1.02	18.4	166.84
16:57:00	35:00	100	25.32	5.64	272.52	1.23	0.92	18.1	169.18

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

**Comments:** FB@ 1720 EB@ 1800

### Well Casing Volume Conversion

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

### Well Information

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



# Groundwater Sampling Form



Updated : 2/22/2023 10:04:43 AM -05:00

<b>Project Number</b>	30143608	<b>Well ID</b>	YGWC-26I	<b>Date</b>	02/09/2023
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	62.6 degrees F and Mostly Cloudy. The wind is blowing S/SW at 8.1 mph.		
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	59.51	<b>Casing Diameter (in)</b>	2
<b>Static Water Level (ft-bmp)</b>	26.3	<b>Total Depth (ft-bmp)</b>	69.81	<b>Water Column(ft)</b>	43.51
<b>MP Elevation</b>	715.91	<b>Pump Intake (ft-bmp)</b>	61	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	17:00	<b>Well Volumes Purged</b>	0.19	<b>Sample ID</b>	YAT-YGWC-26I
<b>Purge Start</b>	16:32	<b>Gallons Purged</b>	1.35	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	16:54			<b>Color</b>	Clear

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)
16:32:00	00:00	225	26.3	6.91	315.54	4.74	7.98	17.9	203.17
16:37:00	05:00	225	26.63	5.61	291.30	13.60	0.83	18.7	168.13
16:42:00	10:00	225	26.63	5.65	289.74	2.70	0.50	18.7	190.31
16:47:00	15:00	225	26.63	5.71	292.04	1.21	0.32	18.7	185.97
16:52:00	20:00	225	26.63	5.75	292.78	1.63	0.25	18.6	182.68
16:55:00	22:44	225	26.63	5.76	292.75	0.94	0.24	18.5	180.51

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

**Comments:** Good

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

Updated : 2/22/2023 10:03:42 AM -05:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-27S	<b>Date</b>	02/09/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	57.7 degrees F and Light Drizzle. The wind is blowing S/SE at 8.1 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	30.22	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	29.47	<b>Total Depth (ft-bmp)</b>	40.52	<b>Water Column(ft)</b>	11.05	<b>Gallons in Well</b>	1.8
<b>MP Elevation</b>	716.52	<b>Pump Intake (ft-bmp)</b>	35	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	09:40	<b>Well Volumes Purged</b>	0.77	<b>Sample ID</b>	YAT-YGWC-27S	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	08:58	<b>Gallons Purged</b>	1.39	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	09:33						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:58:00	00:00	150	29.47	6.78	241.42	1.68	7.90	16.1	83.47
09:03:00	05:00	150	29.51	6.30	248.21	1.24	2.36	17.0	28.55
09:08:00	10:00	150	29.54	6.42	252.13	0.89	1.11	17.3	58.11
09:13:00	15:00	150	29.56	6.50	252.09	0.90	0.83	17.3	71.48
09:18:00	20:00	150	29.58	6.56	252.52	0.87	0.59	17.4	77.86
09:23:00	25:00	150	29.58	6.60	252.86	0.90	0.39	17.4	81.07
09:28:00	30:00	150	29.58	6.63	253.15	0.65	0.30	17.5	83.44
09:33:00	35:00	150	29.58	6.64	253.26	0.59	0.26	17.7	85.27

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form



Updated : 2/22/2023 10:07:27 AM -05:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-27I	<b>Date</b>	02/09/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	57.7 degrees F and Light Drizzle. The wind is blowing S/SE at 8.1 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	69.69	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	29.69	<b>Total Depth (ft-bmp)</b>	79.99	<b>Water Column(ft)</b>	50.3	<b>Gallons in Well</b>	8.17
<b>MP Elevation</b>	716.19	<b>Pump Intake (ft-bmp)</b>	75	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	11:45	<b>Well Volumes Purged</b>	0.16	<b>Sample ID</b>	YAT-YGWC-27I	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	11:13	<b>Gallons Purged</b>	1.32	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	11:38						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:13:00	00:00	200	29.69	7.33	315.81	0.63	6.44	17.0	83.95
11:18:00	05:00	200	30.33	6.49	338.26	0.57	0.47	18.2	-27.02
11:23:00	10:00	200	30.4	6.52	333.78	0.60	0.17	18.2	-40.60
11:28:00	15:00	200	30.4	6.51	331.09	0.66	0.15	18.2	-45.68
11:33:00	20:00	200	30.38	6.50	328.88	0.64	0.14	18.3	-47.90
11:38:00	25:00	200	30.39	6.48	326.75	0.43	0.13	18.3	-48.23

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form



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

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-28S	<b>Date</b>	02/09/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	65.3 degrees F and Cloudy. The wind is blowing SW at 9.2 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	34.65	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	26.68	<b>Total Depth (ft-bmp)</b>	44.95	<b>Water Column(ft)</b>	18.27	<b>Gallons in Well</b>	2.97
<b>MP Elevation</b>	717.95	<b>Pump Intake (ft-bmp)</b>	40	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	13:30	<b>Well Volumes Purged</b>	0.53	<b>Sample ID</b>	YAT-YGWC-28S	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	12:53	<b>Gallons Purged</b>	1.59	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	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)
12:53:00	00:00	200	26.68	6.83	385.39	4.57	6.21	17.7	-9.62
12:58:00	05:00	200	26.9	6.69	433.50	4.06	1.33	18.5	-57.33
13:03:00	10:00	200	26.98	6.81	439.25	4.18	1.10	18.6	-67.93
13:08:00	15:00	200	27	6.86	448.51	4.75	0.58	18.6	-73.16
13:13:00	20:00	200	26.99	6.87	455.83	3.67	0.25	18.5	-79.85
13:18:00	25:00	200	26.99	6.88	456.33	3.67	0.20	18.7	-82.77
13:23:00	30:00	200	27.01	6.87	456.97	3.34	0.17	18.7	-83.50

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form



Updated : 2/22/2023 10:06:34 AM -05:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-28I	<b>Date</b>	02/09/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	65.3 degrees F and Cloudy. The wind is blowing SW at 9.2 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	59.63	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	27.84	<b>Total Depth (ft-bmp)</b>	69.93	<b>Water Column(ft)</b>	42.09	<b>Gallons in Well</b>	6.84
<b>MP Elevation</b>	717.93	<b>Pump Intake (ft-bmp)</b>	64	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	14:55	<b>Well Volumes Purged</b>	0.15	<b>Sample ID</b>	YAT-YGWC-28I	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	14:18	<b>Gallons Purged</b>	1.06	<b>Replicate/ Code No.</b>	YAT-AP2-FD-1	<b>Color</b>	Clear
<b>Purge End</b>	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)
14:18:00	00:00	200	27.84	6.94	291.40	1.27	5.64	17.3	-10.87
14:23:00	05:00	200	28.64	6.55	311.43	1.21	0.34	18.4	8.50
14:28:00	10:00	200	29.42	6.65	304.38	0.93	0.14	18.5	28.40
14:33:00	15:00	100	29.4	6.68	300.97	0.78	0.16	18.5	38.64
14:38:00	20:00	100	29.45	6.71	304.17	0.82	0.09	18.4	45.76
14:43:00	25:00	100	29.43	6.70	307.50	0.65	0.14	18.4	52.83

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

Updated : 2/22/2023 10:00:38 AM -05:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-29IA	<b>Date</b>	02/08/2023		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	74.1 degrees F and Partly Cloudy. The wind is blowing S/SW at 9.2 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	29.29	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	22.4	<b>Total Depth (ft-bmp)</b>	35.4	<b>Water Column(ft)</b>	13	<b>Gallons in Well</b>	2.11
<b>MP Elevation</b>	717.39	<b>Pump Intake (ft-bmp)</b>	30	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	17:35	<b>Well Volumes Purged</b>	0.31	<b>Sample ID</b>	YAT-YGWC-29IA	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	17:06	<b>Gallons Purged</b>	0.66	<b>Replicate/ Code No.</b>	YAT-APT-FB-1	<b>Color</b>	Clear
<b>Purge End</b>	17:31						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:06:00	00:00	100	22.4	6.31	251.25	3.65	5.95	18.7	135.50
17:11:00	05:00	100	23.02	6.47	251.91	0.93	5.62	18.7	128.12
17:16:00	10:00	100	23.08	6.57	252.40	0.90	5.19	18.6	124.12
17:21:00	15:00	100	23.11	6.64	252.76	0.84	4.80	18.6	121.53
17:26:00	20:00	100	23.14	6.67	252.99	0.90	4.66	18.7	120.47
17:31:00	25:00	100	23.14	6.67	253.58	1.20	4.49	18.6	120.53

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-13I			
<b>Person Gauging:</b>		Kim Lapszynski			
<b>Date:</b>		2/6/2023			
<b>Time:</b>		11:15:00			
			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 type="checkbox"/>	<input checked="" 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

<b>Project Location:</b> AP-2			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> PZ-13S					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 11:17:00					
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 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

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWC-26I			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		2/6/2023			
<b>Time:</b>		12:02:00			
			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

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWC-26S			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		2/6/2023			
<b>Time:</b>		12:04:00			
			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

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWC-27S			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		2/6/2023			
<b>Time:</b>		00:41:00			
			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

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		YGWC-271			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		2/6/2023			
<b>Time:</b>		12:43:00			
			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:				
	Bollards need to be fixed and well ID bent				
8	Date by when corrective actions are needed:				

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-14I			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		2/6/2023			
<b>Time:</b>		02:11:00			
			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 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

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-31S			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		2/6/2023			
<b>Time:</b>		01:54:00			
			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 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

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-25S			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		2/6/2023			
<b>Time:</b>		01:08:00			
			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 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

<b>Project Location:</b>		AP-2			
<b>Permit Number:</b>					
<b>Well ID:</b>		PZ-25I			
<b>Person Gauging:</b>		Jake Swanson			
<b>Date:</b>		2/6/2023			
<b>Time:</b>		01:06:00			
			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 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:				



# Upgradient Wells

# Groundwater Sampling Form

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

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

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:03:00	00:00	200	39.06	6.71	74.95	0.87	9.78	15.3	187.74
11:08:00	05:00	200	39.98	6.17	101.76	0.77	4.83	16.0	-37.34
11:13:00	10:00	150	40.4	6.57	98.30	1.03	1.59	15.9	-102.75
11:18:00	15:00	150	40.53	6.55	89.26	1.13	1.36	16.0	-86.28
11:23:00	20:00	150	40.72	6.51	82.44	0.95	1.43	16.2	-71.08
11:28:00	25:00	150	40.83	6.50	77.12	1.02	1.63	16.2	-54.52
11:33:00	30:00	150	40.9	6.50	76.30	0.88	1.67	16.5	-43.97
11:38:00	35:00	150	40.96	6.53	75.28	0.71	1.70	16.8	-36.16

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form

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

**Project Number** 30052922      **Well ID** YGWA-1D      **Date** 02/07/2023

**Project Location** AP-2      **Weather(°F)** 61.7 degrees F and Clear. The wind is blowing S/SE at 6.9 mph.

**Measuring Pt. Description** Top of Inner Casing      **Screen Setting (ft-bmp)** 78.05      **Casing Diameter (in)** 2      **Well Casing Material** PVC

**Static Water Level (ft-bmp)** 49.88      **Total Depth (ft-bmp)** 128.85      **Water Column(ft)** 78.97      **Gallons in Well** 12.83

**MP Elevation** 837.25      **Pump Intake (ft-bmp)** 108      **Purge Method** Low-Flow      **Sample Method** Low-Flow

**Sample Time** 13:40      **Well Volumes Purged** 0.16      **Sample ID** YAT-YGWA-1D      **Sampled by** Jake Swanson

**Purge Start** 12:50      **Gallons Purged** 2.11      **Replicate/ Code No.**      **Color** Clear

**Purge End** 13:30

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

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

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

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

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

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

**Comments:** Bump check before purge begins

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

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

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

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

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form



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

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

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

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

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

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

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

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

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

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

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

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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



# Groundwater Sampling Form

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

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

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

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

**Comments:** Missing labels, some handwritten

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form



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

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

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

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

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

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form



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

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

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

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

**Comments:** Completed mid-day calibration.

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form



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

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

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

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

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

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form



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

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

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

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form

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

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

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

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form



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

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

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

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

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

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

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

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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



# Groundwater Sampling Form

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

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

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

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

**Comments:** None.

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form



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

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

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

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

**Comments:** None.

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form



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

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

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

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

**Comments:** Good

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form

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

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

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

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

**Comments:** Good

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Gauging Well Inspection Report

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

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

<b>Project Location:</b> AP-2			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-3I					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 10:56:00					
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

<b>Project Location:</b> AP-2			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-3D					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 10:57:00					
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 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

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

<b>Project Location:</b> AP-2			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-1D					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 11:10:00					
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 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

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

<b>Project Location:</b> AP-2			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-11					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 11:12:00					
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

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

<b>Project Location:</b> Gypsum Landfill			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> GWA-2					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 09:16:00					
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 type="checkbox"/>	<input checked="" 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:					
Well ID is faded and bollards needs painting					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

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

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

<b>Project Location:</b> AMA AP-3, A, B and B'			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-211					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 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 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

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

<b>Project Location:</b> AMA AP-3, A, B and B'			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-17S					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 10:41:00					
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

<b>Project Location:</b> AMA AP-3, A, B and B'			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-18I					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 10:18:00					
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

<b>Project Location:</b> AMA AP-3, A, B and B'			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-20S					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 09:22:00					
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 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

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

<b>Project Location:</b> AMA AP-3, A, B and B'			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-5I					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 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 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

<b>Project Location:</b> AMA AP-3, A, B and B'			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-18S					
<b>Person Gauging:</b> Kim Lapszynski					
<b>Date:</b> 2/6/2023					
<b>Time:</b> 10:17:00					
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 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:					



# Appendix B

## Well Installation Report (YGWC-29IA)



# GEORGIA POWER COMPANY PLANT YATES - AP-2

## Groundwater Monitoring Well Installation Report (YGWC-29IA)

April 10, 2023



# Georgia Power Company Plant Yates AP-2

## Groundwater Monitoring Well Installation Report (YGWC-29IA)

April 10, 2023

### Prepared By:

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

### Prepared For:

Georgia Power Company  
Newnan, Georgia  
Coweta County



---

David Prouty, P.G.  
Project Geologist



---

Geoff Gay, P.E.  
Technical Expert / Project Manager

## Contents

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2 Drilling and Well Installation .....	1
2.1 Drilling Method.....	1
2.2 Screened Intervals.....	2
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 .....	3
3 Well Development.....	3
4 Survey .....	3
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## Table

Table 1 Well Construction Data

## Figure

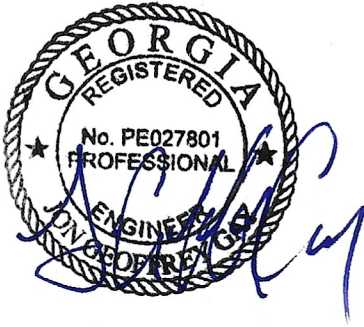
Figure 1 Well Location Map

## Appendices

- A Well Driller Performance Bond
- B Well Construction and 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

4.10.23  
Date

# 1 Introduction

Plant Yates is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line. The Site is approximately eight miles northwest of the city of Newnan and 13 miles southeast of the city of Carrollton. Plant Yates, once a coal-fired power generation facility converted to natural gas combustion turbines, occupies approximately 2,400 acres.

The objective of this report is to document the installation of downgradient detection groundwater monitoring well YGWC-29IA. YGWC-29I was abandoned on October 13-14, 2022 due to construction and lowering of the ground surface elevation along the Chattahoochee River dam area. A well abandonment report was submitted to the Georgia Environmental Protection Division (GA EPD) in December 2022 under separate cover (Arcadis 2022).

**Figure 1** depicts the configuration of ash pond AP-2 and the location of the monitoring wells. YGWC-29IA was installed on January 9 through 10, 2023. Well construction activities were performed in general accordance with the standards described in the RCRA Technical Enforcement Guidance Document (1986), the Georgia Water Wells Standards Act of 1985, and USEPA Region IV Science and Ecosystem Support Division Design and Installation of Monitoring Wells guidance SESDGUID-101-R2 (USEPA 2018).

## 2 Drilling and Well Installation

The groundwater monitoring system is designed and installed according to accepted industry standards and following guidelines within the Manual for Groundwater Monitoring (GA EPD 1991). The location and depth of the monitoring well were selected based on the characterization of site-specific hydrogeologic conditions by a qualified professional engineer and geologist. Groundwater monitoring location YGWC-29IA was designed to monitor the upper fractured bedrock transition zone. The screened interval elevations for YGWC-29IA are similar to the former well YGWC-29I. The installation date, location, elevation, screen interval, and designation for YGWC-29IA 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 the former and new well construction.

### 2.1 Drilling Method

The monitoring wells were 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 (Appendix A).

The monitoring well installation was performed under the oversight and direction of a Georgia Registered Professional Geologist 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 4-inch sonic core rods with a 6-inch outer-casing sleeve. During the drilling, continuous core samples were logged in the field for lithologic properties.

## 2.2 Screened Intervals

Monitoring well YGWC-29IA was screened in the upper fractured bedrock transition zone. The screened interval elevations for YGWC-29IA are similar to the former well YGWC-29I.

Monitoring well YGWC-29IA is constructed with 10 feet of U-Pack® well screen placed at the interval 21.6 to 31.6 feet below ground surface (bgs) with a flush-threaded polyvinyl chloride (PVC) end cap placed on the bottom 0.8-foot sump/sediment trap.

## 2.3 Well Construction Materials

The monitoring well was designed and constructed to: (1) allow sufficient groundwater flow to the well for sampling; (2) minimize the passage of formation materials (turbidity) into the wells; and (3) ensure sufficient structural integrity to prevent collapse of the well.

The well is constructed of 2-inch diameter Schedule 40 PVC casing affixed to a dual-wall slotted 10-foot U-Pack® PVC screen. The U-Pack® well screens consist of a 3-inch diameter outer PVC well screen and a 2-inch centralized inner PVC well screen in one integrated unit.

Factory slotted 0.010-inch screens were used. The construction materials are ink-free, National Science Foundation (NSF) approved, and do not contain glues or solvents. Casing and screen sections are flush-threaded (ASTM-F-480).

### 2.3.1 Filter Pack

Following placement of the well screens and casings at each well, the annular space adjacent to the well screens were filled with Southern Products & Silica Co. filter pack sand size GP #1 by hand pouring while tagging depth. This size sand is an approximately 16-50 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 2.5 feet above the top of the well screen. The depth to the top of filter pack was measured and recorded in the well construction logs provided in **Appendix B**.

After placing the filter pack and prior to installing the annular seal, the well was pumped for at least 30 minutes to ensure proper settlement of the filter pack. Prior to installing the annular seal, the depth to the filter pack was remeasured to ensure a minimum of two feet was present above the screen.

### 2.3.2 Annular Seal

An annular seal composed of approximately 4.3 feet of hydrated bentonite 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 for a minimum of 2 hours using potable water and allowed to cure before grouting the well.

Following hydration of the bentonite, the remaining annular space was tremie-grouted with a 30% solids bentonite grout (AQUAGARD®). The piezometer and monitoring well surface completions consist 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

Monitoring well YGWC-29IA was initially developed using an inertial Waterra pump and surge block. The well was surged continuously across the entire well screen in 4-inch strokes with the Waterra pump from top to bottom to remove fines resulting from the well installation activities. A submersible pump was then used to over-pump the well to minimize turbidity during groundwater sampling. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. Final turbidity measurements following development were less than 5 nephelometric turbidity units (NTU). The well development form is included in **Appendix B**.

## 4 Survey

The monitoring well locations and top of casing (TOC) elevations were surveyed by Arcadis on February 1, 2023 using a Leica GS16 Global Positioning System (GPS). Horizontal survey locations are relative to the Georgia State Plane Coordinate System, West Zone, NAD83, US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.50 foot. Vertical elevations are referenced to NAVD1988, US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix C**.

## 5 References

Arcadis 2022. Plant Yates, Ash Pond 2 – Well Abandonment Report. Prepared for Georgia Environmental Protection Division. December.

Georgia Environmental Protection Division, Georgia Department of Natural Resources. Manual for Groundwater Monitoring, September 1991.

United States Environmental Protection Agency (USEPA), Science and Ecosystem Support Division (SESD). Design and Installation of Monitoring Wells SESDGUID-101-R2, January 16, 2018.



# Table

Well ID	Installation Date	Northing	Easting	Ground Elevation	Top of Casing (TOC) Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Total Depth (ft bTOC)
YGWC-29IA	1/10/2023	1258981.85	2070212.16	709.00	711.80	687.40	677.40	35.30
YGWC-29I*	10/2/2015	1258974.06	2070203.26	714.80	717.39	688.10	678.10	39.59

**Notes:**

\* Well abandoned October 13-14, 2022  
 Elevation in U.S. Survey Feet (NAVD88)  
 Northing and Easting Georgia State Plane West, NAD83

# Figure

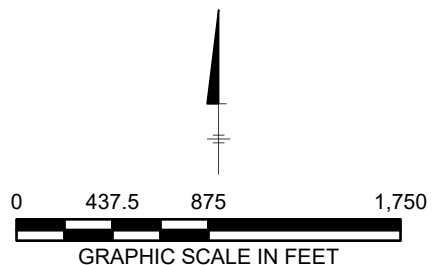
84°54'55"W 84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W



**LEGEND**

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

**NOTES:**  
 1. YGWC-291 WAS ABANDONED ON OCTOBER 17, 2022. REPLACEMENT WELL YGWC-291A WAS INSTALLED JANUARY 9-10, 2023.  
 2. AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



COORDINATE SYSTEM: NAD 1983 STATEPLANE  
 GEORGIA WEST FIPS 1002 FEET

**Georgia Power**  
 PLANT YATES AP-2  
 NEWNAN, GA  
**WELL INSTALLATION REPORT**

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**WELL LOCATION MAP**

---

**ARCADIS**

84°54'55"W 84°54'50"W 84°54'45"W 84°54'40"W 84°54'35"W 84°54'30"W 84°54'25"W 84°54'20"W 84°54'15"W 84°54'10"W 84°54'5"W 84°54'0"W 84°53'55"W 84°53'50"W 84°53'45"W 84°53'40"W 84°53'35"W 84°53'30"W 84°53'25"W 84°53'20"W 84°53'15"W 84°53'10"W 84°53'5"W 84°53'0"W 84°52'55"W 84°52'50"W

# Appendix A

## Well Driller Performance Bond

CONTINUATION  
CERTIFICATE

SAFECO Insurance Company of America

, Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987  
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.  
(PRINCIPAL)

and in favor of Georgia Department of Natural Resources, Environmental Protection Division  
(OBLIGEE)

does hereby continue said bond in force for the further period

beginning on June 30, 2021  
(MONTH-DAY-YEAR)

and ending on June 30, 2022  
(MONTH-DAY-YEAR)

Amount of bond Fifteen Thousand Dollars and 00/100 (\$15,000.00)

Description of bond Water Well Contractors & Drillers

Premium: \$100.00

**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 05/06/2021  
(MONTH-DAY-YEAR)  
SAFECO Insurance Company of America  
175 Berkeley Street, Boston, MA 02116

By   
Attorney-in-Fact Jeffrey M. Wilson, Attorney-in-Fact

McGriff Insurance Services, Inc.  
Agent

2211 7th Avenue South, Birmingham, AL 35233  
Address of Agent

(205) 252-9871  
Telephone Number of Agent



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

Certificate No: 8205019-016032

POWER OF ATTORNEY

KNOWN ALL PERSONS BY THESE PRESENTS: That American States Insurance Company is a corporation duly organized under the laws of the State of Indiana, that First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America are corporations duly organized under the laws of the State of New Hampshire (herein collectively called the "Companies"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Alisa B. Ferris; Anna Childress; Jeffrey M. Wilson; Mark W. Edwards II, Richard H. Mitchell, Robert R. Freel; Sam Audia; William M. Smith

all of the city of Birmingham state of AL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Companies and the corporate seals of the Companies have been affixed thereto this 11th day of March, 2021.

American States Insurance Company
First National Insurance Company of America
General Insurance Company of America
Safeco Insurance Company of America

By: David M. Carey, Assistant Secretary



State of PENNSYLVANIA ss
County of MONTGOMERY

On this 11th day of March, 2021 before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as a duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America, which are now in full force and effect reading as follows:

ARTICLE IV - OFFICERS: Section 12. Power of Attorney.

Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorney-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

Certificate of Designation - The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

Authorization - By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of American States Insurance Company, First National Insurance Company of America, General Insurance Company of America, and Safeco Insurance Company of America do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Companies, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 6th day of May, 2021.



By: Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

CONTINUATION  
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SAFECO Insurance Company of America

, Surety upon

a certain Bond No. **4993104**

dated effective June 30, 1987  
(MONTH-DAY-YEAR)

on behalf of Southern Company Services, Inc.  
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Signed and dated on 05/06/2021  
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SAFECO Insurance Company of America

175 Berkeley Street, Boston, MA 02116

By   
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all of the city of Birmingham state of AL each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Companies in their own proper persons.

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General Insurance Company of America
Safeco Insurance Company of America

By: David M. Carey, Assistant Secretary



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County of MONTGOMERY

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IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal
Teresa Pastella, Notary Public
Montgomery County
My commission expires March 28, 2025
Commission number 1126044
Member, Pennsylvania Association of Notaries

By: Teresa Pastella, Notary Public

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IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Companies this 6th day of May, 2021.



By: Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

# Appendix B

## Well Construction and Development Logs

# RECORD OF BOREHOLE YGWC-29IA

SHEET 1 of 1

PROJECT: Georgia Power Plant Yates  
 PROJECT NUMBER: 30143622  
 DRILLED DEPTH: 32.5 ft  
 LOCATION: Newnan, GA

DRILL RIG: TerraSonic 150CC  
 DATE STARTED: 1/9/2023  
 DATE COMPLETED: 1/10/2023

NORTHING: 1258981.85  
 EASTING: 2070212.16  
 GS ELEVATION: 709.00  
 TOC ELEVATION: 711.80

DEPTH W.L.: 22.15  
 ELEVATION W.L.: 689.65  
 DATE W.L.: 1/27/2023  
 TIME W.L.: 12:30:00 PM

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC	TGWC-29IA MONITORING WELL DIAGRAM and NOTES	WELL CONSTRUCTION DETAILS
0.0 - 16.0	(SM) Silty SAND; 5Y 7/3; loose; fine grained; well sorted; slightly moist; trace gravel; FILL.  Grading to 5Y 4/2.  Grading to 10YR 5/4.	SM		0.0	1		6.0 6.0	2-inch diameter PVC Riser	<b>WELL CASING</b> Interval: -2.9'-21.6' Material: Schedule 40 PVC Diameter: 2" Joint Type: Threaded  <b>WELL SCREEN</b> Interval: 21.6'-31.6' Material: U-Pack Schedule 40 PVC Diameter: 2" Slot Size: 0.010"  <b>FILTER PACK</b> Interval: 19.1'-32.5' Type: Southern Products and Silica GP#1 Quantity: 2 cf  <b>FILTER PACK SEAL</b> Interval: 14.9'-19.1' Type: 3/8" Pel-Plug Bentonite Pellets Quantity: 0.6 cf  <b>ANNULUS SEAL</b> Interval: 0.5'-14.9' Type: Aquaguard Bentonite Grout Quantity: 3.2 cf
16.0 - 32.5	Biotite Schist; interbedded with biotite gneiss; thinly laminated; moderately weathered; GLEY2 2.5/10B.  Grading to biotite gneiss; GLEY1 4/N. Grading to GLEY1 5/10Y; biotite gneiss and biotite schist interbedded.  Highly weathered material from 22 to 24 ft bls; rig responded as if void space.  Grading to moderately weathered interbedded biotite gneiss and biotite schist; GLEY1 4/10GY.  Grading slightly weathered.			BED-ROCK					
22.0 - 24.0	Highly weathered material from 22 to 24 ft bls; rig responded as if void space.	4	1.0 6.0		GP#1 (16-50) Silica Sand				
24.0 - 32.5	Grading to moderately weathered interbedded biotite gneiss and biotite schist; GLEY1 4/10GY.  Grading slightly weathered.	5	6.0 6.5			U-Pack Screen, slotted (0.010-inch)			
32.5	Boring terminated.			32.5					<b>SURFACE COMPLETION</b> Protection: 4"x4" Aluminum Pad: 4"x4' Concrete Lock: Yes Date: 1/10/2023

DRILLING COMPANY: Cascade Drilling  
 DRILLER: Cory Franklin

CHECKED BY: David Prouty  
 DATE: 2/21/2023



# INSTRUMENT CALIBRATION LOG

**Project Name:** Plant Yates (YGWC-29IA)
**Personnel:** David Prouty
**Project Number:** 30113037

 Date / Time : 1/ 27 /2023 12:50  
 Weather : Clear 16°C  
 Instruments: \_\_\_\_\_

 Date / Time : 1/ \_\_\_\_\_ /2023  
 Weather : \_\_\_\_\_  
 Instruments: \_\_\_\_\_

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	<u>7.08</u>	7.0	<u>7.00</u>
pH 4.0	<u>3.97</u>	4.0	<u>4.01</u>
pH 10.0	<u>10.19</u>	10.0	<u>9.98</u>
Sp. Conductivity (us/cm)	<u>1.202</u>	1.413	<u>1.412</u>
ORP (mV)	<u>236.9</u>	240	<u>240.2</u>
Dissolved Oxygen (%)	<u>124.1</u>	100%	<u>100.5</u>
Turbidity (NTU)	<u>0.11</u>	<u>&lt;0.1</u>	<u>0.11</u>
Turbidity (NTU)	<u>15.5</u>	<u>15</u>	<u>15.0</u>
Turbidity (NTU)			

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

**Notes:**  
 Barometric Pressure = 757.9 mm Hg 16°C
**Notes:**  
 Barometric Pressure = \_\_\_\_\_ mm Hg

 Date / Time : 1/ \_\_\_\_\_ /2023  
 Weather : \_\_\_\_\_  
 Instruments: \_\_\_\_\_

 Date / Time : 1/ \_\_\_\_\_ /2023  
 Weather : \_\_\_\_\_  
 Instruments: \_\_\_\_\_

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

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

**Notes:**  
 Barometric Pressure = \_\_\_\_\_ mm Hg

**Notes:**  
 Barometric Pressure = \_\_\_\_\_ mm Hg

**Conversions:**  
 1 inch of Hg = 25.4 mm Hg

MONITORING WELL DEVELOPMENT LOG



Site/Project Information

Well ID YGWC-291A Date 1/27/2023  
 Project Yates GW Consulting Services Project No. 30113037  
 Site Location Newnan GA Top of Screen (ft bmp) 25.4 24.4 Bottom of Screen (ft bmp) 35.4 34.4  
 Weather clear 51° Time Begin 1230 Time End 1522

Development Data

Measuring Point Top of Casing Pump Intake Setting (ft bmp) \_\_\_\_\_  
 MP Elevation (ft) NA Pumping Rate (gpm) 0.4 Watterra, 0.2 Whaler  
 Land Surface Elevation (ft) NA Development Method Watterra + Whaler  
 Pre-Dev Well Depth (ft bmp) 35.40 Post-Dev Well Depth (ft bmp) 35.40  
 Pre-Dev DTW (ft bmp) 22.15 Post-Dev DTW (ft bmp) 27.67 at 1558  
 Pre-Dev Water Column (ft) 13.25 Post-Dev Water Column (ft) 7.73  
 Casing Diameter (in) / Type 2"  
 Initial Well Volume (gallons) 2.16 Color clear  
 Total Well Volumes Purged 33.7 approx Odor None  
 Appearance clear

Field Parameters

*mS/cm*

Date	Time	Measured DTW (ft bmp)	Pumping Rate (gpm)	Elapsed Time (min)	Volume Removed (gal)	Conductivity (µS/cm)	Turbidity (NTU)	Temp (°C)	pH (s.u.)	ORP (mV)	DO (mg/L)	Remarks
1/27/23	1230	22.15	0.4									start Watterra
	1350	34.4	0.4	80	2.32		29.7					stop Watterra
	1445	23.6										water recovery
	1447											started whaler
	1451	29.21	0.6	5	2.5	0.256	13.6	18.0	6.17	+141.7	1.57	
	1457	30.00	0.6	10	4.0	0.255	8.77	17.9	6.19	+139.2	1.67	Slowed Pump Rate
	1502	30.52	0.2	15	6.5	0.255	2.24	17.7	6.26	+126.9	1.88	
	1507	30.75	0.2	20	7.5	0.255	0.91	17.5	6.25	+126.7	1.90	
	1512	31.00	0.2	25	8.5	0.255	0.87	17.1	6.23	+126.6	1.50	
	1517	31.13	0.2	30	9.5	0.256	0.83	17.1	6.23	+125.9	1.20	
	1522	31.15	0.2	35	10.5	0.254	0.83	16.9	6.21	+125.6	1.09	stopped whaler
					42.5							Total Purge

Development Personnel: *Began Watterra pumping at top of screen. Reset tubing intake w/ surge block approx every 10 minutes until total depth reached.*

Well Diameter (in) = Unit Volume (gallon per ft of water column)

Well Volume Calcs	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	

- bmp - feet below measuring point  
 v - millivolts

°F / °C - Degrees Fahrenheit/Celsius  
 gpm - gallons per minute

mS/cm - Millisiemens per centimeter

# Appendix C

## Well Survey Report

Ms. Lauren Hartley  
Southern Company  
Environmental Solutions  
241 Ralph McGill Blvd, NE  
Atlanta, GA 30308

Subject:  
YGWC-29IA  
Plant Yates, 708 Dyer Road, Newnan, Georgia

Dear Ms. Hartley:

Attached is a copy of the survey report for YGWC-29IA at Plant Yates.

We appreciate the opportunity to work with Georgia Power and look forward to working with you in the future. If you need additional information, please feel free to contact me.

Sincerely,  
Arcadis U.S., Inc.

Mike Peppers, PLS  
Survey Department Manager

Attachments

Copies:  
Geoffrey Gay, PE

Arcadis U.S., Inc.  
2839 Paces Ferry  
Road SE  
Suite 900 Atlanta  
Georgia 30339  
Tel 770.431-8666  
Fax 770.435.2666  
[www.arcadis.com](http://www.arcadis.com)

Date:  
February 10, 2023

Contact:  
Mike Peppers, PLS

Phone:  
770.384.6638

Email:  
[mike.peppers@arcadis.com](mailto:mike.peppers@arcadis.com)

Our ref:  
30143626

## DESCRIPTION AND SCOPE

Arcadis performed horizontal and vertical field survey locations at YGWC-291A. 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. The team completed the field survey on this 1 location on 02/01/2023.

The Arcadis field team utilized a of Leica GS16 Global Positioning System (GPS) to obtain horizontal locations of the TOC and/or nail or top of the concrete well pad. All horizontal field survey locations are relative to the Georgia State Plane Coordinate System, West Zone, NAD1983, US Survey Feet. All horizontal locations meet or exceed an accuracy level of 0.50 foot. All vertical field survey locations were obtained from a level loop, performed with the Leica DNA03 digital level.

See the attached exhibit detailing the surveyed location for YGWC-291A.

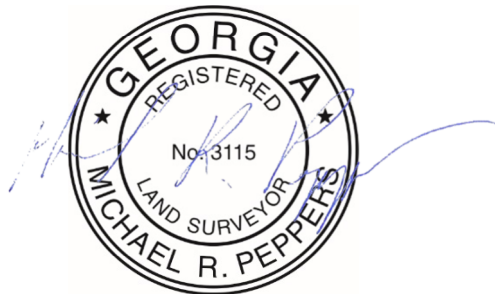
## CERTIFICATION

I, Mike Peppers, 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:

Mike Peppers, PLS

DATE: February 10, 2023



Mike Peppers, PLS  
2839 Paces Ferry Road SE  
Suite 900  
Atlanta, GA 30339  
770.431-8666



**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		
YGWC-29IA	Casing	711.80	1258981.85	2070212.16	33° 27' 32.033" N	84° 54' 32.095" W
	Disk	709.04	1258982.62	2070212.56		
	Ground	709.0				

**Notes:**

NAD83(2011) coordinates system on site 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  
Phone: 770 431 8666  
Fax: 770 435 2666  
[www.arcadis.com](http://www.arcadis.com)

# Appendix C

## Analytical Lab and Data Validation Reports (February 2023)

Georgia Power Co. – Plant Yates

# Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92651576 and 92651578

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #49111R

Review Level: Tier II

Project: 30113037.3B

## Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92651576 and 92651578 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWC-29IA	92651576001 92651578001	Water	2/8/2023		X	X	X
YAT-AP2-EB-1	92651576002 92651578002	Water	2/8/2023		X	X	X
YAT-AP2-FB-1	92651576003 92651578003	Water	2/8/2023		X	X	X
YAT-YGWC-26S	92651576004 92651578004	Water	2/9/2023		X	X	X
YAT-YGWC-27S	92651576005 92651578005	Water	2/9/2023		X	X	X
YAT-YGWC-27I	92651576006 92651578006	Water	2/9/2023		X	X	X
YAT-YGWC-28S	92651576007 92651578007	Water	2/9/2023		X	X	X
YAT-YGWC-28I	92651576008 92651578008	Water	2/9/2023		X	X	X
YAT-AP2-EB-2	92651576009 92651578009	Water	2/9/2023		X	X	X
YAT-AP2-FB-2	92651576010 92651578010	Water	2/9/2023		X	X	X
YAT-YGWC-26I	92651576011 92651578011	Water	2/9/2023		X	X	X
YAT-AP2-FD-1	92651576013 92651578013	Water	2/9/2023	YAT-YGWC-28I	X	X	X

## Data Review Report

### Notes:

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

## Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

**Note:**

QA = quality assurance

<sup>1</sup> Sample YAT-AP2-FD-1 was received but was not listed on the chain of custody form. The laboratory proceeded with analysis of sample YAT-AP2-FD-1 for all parameters.

## Inorganic Analysis Introduction

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

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

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

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



## Data Review Report

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

## Metals Analyses

### 1. Holding Times

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

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

**Note:**

s.u. = standard units

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

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

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

Boron was detected in the associated equipment blank YAT-AP2 EB-2; however, the associated sample results were greater than the BAL or not detected. No qualification of the sample results was required.

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

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

#### 3.1 MS/MSD Analysis

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

The MS/MSD analysis was performed using sample YAT-YGWC-29IA in association with SW-846 6010D analysis, however the concentrations of calcium and sodium in the unspiked sample were greater than four-times the spike concentration. The MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using sample YAT-YGWC-27S in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YAT-AP2-FB-1 in association with SW-846 7470A analysis exhibited recoveries within the control limits.

### 3.2 Laboratory Duplicate Analysis

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

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

## 4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-28I / YAT-AP2-FD-1	Potassium	5.7	5.6	1.8%
	Sodium	8.9	8.8	1.1%
	Calcium	27.7	27.8	0.4%
	Magnesium	16.1	16.0	0.6%
	Barium	0.070	0.069	1.4%
	Boron	1.8	1.8	0.0%
	Lithium	0.0066 J	0.0062 J	AC
	Molybdenum	0.0014 J	0.0013 J	

**Note:**

AC = Acceptable

The differences in the results between the parent sample YAT-YGWC-28I and field duplicate sample YAT-AP2-FD-1 were acceptable.

## **5. Laboratory Control Sample (LCS) Analysis**

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

The LCS analysis exhibited recoveries within the control limits.

## **6. System Performance and Overall Assessment**

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

## Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)</b> <b>Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)</b> <b>Atomic Absorption – Manual Cold Vapor (CV)</b>					
<b>Tier II Validation</b>					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

**Notes:**

%R     Percent recovery

RPD     Relative percent difference

## General Chemistry Analyses

### 1. Holding Times

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

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWC-26S YAT-YGWC-27I YAT-YGWC-28I	TDS (EB)	Detected sample results >RL and <BAL	"UB" at detected sample result
YAT-YGWC-27S	TDS (EB, FB)		

**Notes:**

EB = Equipment blank

FB = Field blank

RL = Reporting limit

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

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

#### 3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample YAT-YGWC-26S in association with anions analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with alkalinity analysis.

#### 3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis using sample YAT-YGWC-26S in association with anions analysis. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with alkalinity analysis.

The laboratory duplicate analysis performed on sample location YAT-AP2-FD-1 in association with TDS analysis exhibited an RPD outside of the control limit as presented in the following table.

Sample Location	Analytes	Lab Duplicate RPD
YAT-AP2-FD-1	TDS	47%

The criteria used to evaluate laboratory duplicate RPD are presented in the following table. In the case of a laboratory duplicate RPD deviation, the sample results are qualified. For TDS analysis, the qualification is applied to the parent sample.

Sample Concentration	Control Limit	Sample Result	Qualification
Parent sample and laboratory duplicate sample concentration >5 times RL	20%	Non-detect	UJ
		Detect	J

## 4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-28I / YAT-AP2-FD-1	TDS	184 UB	246	NC
	Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	146	149	2.0%
	Alkalinity, Carbonate (CaCO <sub>3</sub> )	5.0 U	5.0 U	AC
	Alkalinity, Total (CaCO <sub>3</sub> )	146	149	2.0%
	Chloride	11.5	11.9	3.4%
	Fluoride	0.14	0.11	AC
	Sulfate	7.4	7.2	2.7%

**Note:**

AC = Acceptable

NC = Not compliant

The difference in the TDS results between the parent sample YAT-YGWC-28I and field duplicate sample YAT-AP2-FD-1 was not in agreement. The TDS results in these samples were qualified as estimated.

## 5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

## 6. System Performance and Overall Assessment

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



## Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, SM2320B, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>Miscellaneous Instrumentation</b>					
<b>Tier II Validation</b>					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X	X		
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X	X		
Field Duplicate (RPD)		X	X		

**Notes:**

%R     Percent recovery

RPD     Relative percent difference

# Radiological Analyses

## 1. Holding Times

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

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

**Note:**

s.u. = standard units

All samples were analyzed within the specified holding times.

## 2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits ( $\pm 2$  sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

$U_{\text{Sample}}$  = uncertainty of the sample

$U_{\text{Blank}}$  = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

**Note:**

\* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-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 <math>\pm 3</math> sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x<sub>0</sub> = measured concentration of the unspiked sample.

c = spike concentration added.

u<sup>2</sup>(x), u<sup>2</sup>(x<sub>0</sub>), u<sup>2</sup>(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  $\pm 3$  sigma. Warning limits have been established as  $\pm 2$  sigma.

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

### 3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of  $\pm 3$  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  $\pm 3$  sigma. Warning limits have been established as  $\pm 2$  sigma.

Laboratory duplicate analysis was not performed using a sample from this SDG.

### 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

The field duplicate sample results are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-28I / YTC-AP2-FD-1	Radium-226	0.164 ± 0.146	0.208 ± 0.161	AC
	Radium-228	-0.244 ± 0.439	0.859 ± 0.551	
	Total Radium	0.164 ± 0.585	1.07 ± 0.712	

**Note:**

AC = Acceptable

The differences in the results between the parent sample YTC-YGWC-28I and field duplicate sample YTC-AP2-FD-1 were acceptable. As noted in Section 7, the results for Radium-226, Radium-228, and Total Radium in samples YTC-YGWC-28I and YTC-AP2-FD-1 were less than the MDC and should be considered not detected.

## 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  $\pm 3$  sigma. Warning limits have been established as  $\pm 2$  sigma.

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

## 7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- YAT-YGWC-27I – Radium-228
- YAT-YGWC-29IA – Radium-228 and total Radium
- YAT-AP2-EB-1, YAT-AP2-FB-1, YAT-YGWC-26S, YAT-YGWC-27S, YAT-YGWC-28S, YAT-YGWC-28I, YAT-AP2-EB-2, YAT-AP2-FB-2, YAT-YGWC-26I, and YAT-AP2-FD-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 Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>Miscellaneous Instrumentation</b>					
<b>Tier II Validation</b>					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)		X		X	

**Notes:**

%R     Percent recovery

RPD     Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

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DATE: April 26, 2023

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PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

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## **Chain of Custody / Data Qualifier Summary Table**

## CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 1

**Section A**

**Required Client Information:**  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: laucoker@southernco.com  
 Phone: 470.620.6176 Fax  
 Requested Due Date: 5/10/17

**Section B**

**Required Project Information:**  
 Report To: SCS Contacts  
 Copy To: Arcadia Contacts  
 Task No: YAT-CCR-A88MT-202381  
 Purchase Order #:  
 Project Name: Plant Yates AP-2  
 Project Number:

**Section C**

**Invoice Information:**  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: Bonnie Vang  
 Pace Profile #: 10840

Regulatory Agency  
 State / Location  
 Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -) Sample IDs must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives										Analytical Test	App III/IV Metals + Ca, Na, K Cl, F, SO4 TDS (25-40C) RAD 6315/6320 Alkalinity (SM2320B)	Residual Chlorine (Y/N)				
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other								
				DATE	TIME	DATE	TIME																		
1	YAT-YGWC-26S	WG	G						6	3									X	X	X	X	X		
2	YAT-YGWC-26I	WG	G						6	3									X	X	X	X	X		
3	YAT-YGWC-27S	WG	G						6	3									X	X	X	X	X		
4	YAT-YGWC-27I	WG	G						6	3									X	X	X	X	X		
5	YAT-YGWC-28S	WG	G						6	3									X	X	X	X	X		
6	YAT-YGWC-28I	WG	G						6	3									X	X	X	X	X		
7	YAT-AP2-FD-1	WG	G						6	3									X	X	X	X	X		
8	YAT-YGWC-29IA	WG	G	2/8	1735				6	3									X	X	X	X	X		
9	YAT-AP2-EB-1	WG	G	2/8	1750				6	3									X	X	X	X	X		pH: 6.67 (6.1)
10	YAT-AP2-EB-2	WG	G						6	3									X	X	X	X	X		pH: 6.52
11	YAT-AP2-FB-1	WG	G	2/8	1740				6	3									X	X	X	X	X		pH: 6.63
12	YAT-AP2-FB-2	WG	G						6	3									X	X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	
							TEMP In C	Received on Ice (Y/N)
Anions Suite 300.0 (Cl, F, Sulfate)	WJ / Arcadia	2/9/23	830	William A. V. / Arc	2/9/23	830		
App III Metals: Boron 6020B, Ca 6010D	WJ / Arcadia	2/9/23	0820	Ryan Williams / Pace	2/9/23	0920		
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan Williams / Pace	2/9/23	1235	Beal / Pace	2/9/23	1235		

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: (Arcadia) - Jake Swanson

SIGNATURE of SAMPLER: (Arcadia) - [Signature] DATE Signed: 2/9/23

TEMP In C: \_\_\_\_\_  
 Received on Ice (Y/N): \_\_\_\_\_  
 Custody Sealed Cooler (Y/N): \_\_\_\_\_  
 Samples Intact (Y/N): \_\_\_\_\_

### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 Of 1

**Section A**

**Required Client Information:**

Company: **GA Power**  
 Address: **Atlanta, GA**  
 Email To: **laucocker@southernco.com**  
 Phone: **470.620.6176** Fax  
 Requested Due Date: **5/11/23**

**Section B**

**Required Project Information:**

Report To: **SCS Contacts**  
 Copy To: **Arcadis Contacts**  
 Task No: **YAT-CCR-ASSMT-2023S1**  
 Purchase Order #:  
 Project Name: **Plant Yates AP-2**  
 Project Number:

**Section C**

**Invoice Information:**

Attention: **Southern Co.**  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: **Bonnie Vang**  
 Pace Profile #: **10840**

**Regulatory Agency**  
**State / Location**  
**Georgia**

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE Drinking Water DW Water WT Waste Water WW Product P Soil/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	CODE DW WT WW P SL OL WP AR OT TS	MATRIX TYPE (see valid codes to left) G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)			
					START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Merchand		Other	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 6315/8320	Alkalinity (SM2320B)				
					DATE	TIME	DATE	TIME																				
1	YAT-YGWC-26S	WG	G	2/9	1705	-	-	-	6	3	3							X	X	X	X	X						pH: 5.64 604
2	YAT-YGWC-26I	WG	G						6	3	3							X	X	X	X	X						pH:
3	YAT-YGWC-27S	WG	G	2/9	0940				6	3	3							X	X	X	X	X						pH: 6.64 005
4	YAT-YGWC-27I	WG	G	2/9	1145				6	3	3							X	X	X	X	X						pH: 6.48 006
5	YAT-YGWC-28S	WG	G	2/9	1330				6	3	3							X	X	X	X	X						pH: 6.87 007
6	YAT-YGWC-28I	WG	G	2/9	1455				6	3	3							X	X	X	X	X						pH: 6.70 006
7	YAT-AP2-FD-1	WG	G						6	3	3							X	X	X	X	X						pH:
8	YAT-YGWC-29IA	WG	G						6	3	3							X	X	X	X	X						pH:
9	YAT-AP2-EB-1	WG	G						6	3	3							X	X	X	X	X						pH:
10	YAT-AP2-EB-2	WG	G	2/9	1300				6	3	3							X	X	X	X	X						pH: — 009
11	YAT-AP2-FB-1	WG	G						6	3	3							X	X	X	X	X						pH:
12	YAT-AP2-FB-2	WG	G	2/9	1720				6	3	3							X	X	X	X	X						pH: — 010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> / Arcadis	2/10/23	1200	<i>[Signature]</i> / Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D	<i>[Signature]</i> / Arcadis	2/10/23	1400	<i>[Signature]</i> / Arcadis	2/10/23	1400	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)							
7040A: Mercury (Hg). Also add Ca, Na, K for this event.							
Alkalinity - report total, carbonate, and bicarbonate							

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: (Arcadis) - *Jake Swanson*

SIGNATURE of SAMPLER: (Arcadis) - *[Signature]* DATE Signed: **2/9/23**

TEMP in C

Received on ice (Y/N)

Custody Sealed (Y/N)

Cooler (Y/N)

Samples Intact (Y/N)



SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92651576	YAT-YGWC-26S	SM2540C	TDS	196	mg/L	UB	Blank contamination
	YAT-YGWC-27S	SM2540C	TDS	116	mg/L	UB	Blank contamination
	YAT-YGWC-27I	SM2540C	TDS	189	mg/L	UB	Blank contamination
	YAT-YGWC-28I	SM2540C	TDS	184	mg/L	UBJ	Blank contamination
	YAT-AP2-FD-1	SM2540C	TDS	246	mg/L	J	Lab duplicate RPD, Field duplicate RPD
92651578	No qualifiers assigned						

**Abbreviations:**

mg/L = milligrams per liter

RPD = relative percent difference

**Qualifiers:**

J = estimated result

UB = not detected due to blank contamination

April 14, 2023

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

RE: Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

Dear Ms. Petty:

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

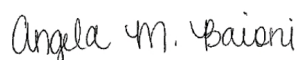
The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Greensburg

A revised report is being submitted on 4/14/23 to remove results for samples not included in this reporting group.

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

Sincerely,



Angela Baioni for  
Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Lauren Coker, Georgia Pwer  
Noelia Gangi, Georgia Power  
Geoffrey Gay, ARCADIS - Atlanta  
Ben Hodges, Georgia Power-CCR  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
Kelley Sharpe, ARCADIS - Atlanta

Alex Simpson, Arcadis  
Michael Smilley, Georgia Power  
Becky Steever, Arcadis  
Tina Sullivan, ERM  
Albert Zumbuhl, Arcadis



## REPORT OF LABORATORY ANALYSIS

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

## CERTIFICATIONS

Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

---

### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651578001	YAT-YGWC-29IA	Water	02/08/23 17:35	02/09/23 12:35
92651578002	YAT-AP2-EB-1	Water	02/08/23 17:50	02/09/23 12:35
92651578003	YAT-AP2-FB-1	Water	02/08/23 17:40	02/09/23 12:35
92651578004	YAT-YGWC-26S	Water	02/09/23 17:05	02/10/23 14:00
92651578005	YAT-YGWC-27S	Water	02/09/23 09:40	02/10/23 14:00
92651578006	YAT-YGWC-27I	Water	02/09/23 11:45	02/10/23 14:00
92651578007	YAT-YGWC-28S	Water	02/09/23 13:30	02/10/23 14:00
92651578008	YAT-YGWC-28I	Water	02/09/23 14:55	02/10/23 14:00
92651578009	YAT-AP2-EB-2	Water	02/09/23 18:00	02/10/23 14:00
92651578010	YAT-AP2-FB-2	Water	02/09/23 17:20	02/10/23 14:00
92651578011	YAT-YGWC-26I	Water	02/09/23 17:00	02/10/23 14:00
92651578013	YAT-AP2-FD-1	Water	02/09/23 00:00	02/10/23 14:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651578001	YAT-YGWC-29IA	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578002	YAT-AP2-EB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578003	YAT-AP2-FB-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578004	YAT-YGWC-26S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578005	YAT-YGWC-27S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578006	YAT-YGWC-27I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578007	YAT-YGWC-28S	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578008	YAT-YGWC-28I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578009	YAT-AP2-EB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578010	YAT-AP2-FB-2	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578011	YAT-YGWC-26I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651578013	YAT-AP2-FD-1	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

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### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

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Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
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PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92651578001</b>	<b>YAT-YGWC-29IA</b>					
EPA 9315	Radium-226	0.349 ± 0.191 (0.231) C:91% T:NA	pCi/L		03/03/23 08:25	
EPA 9320	Radium-228	0.614 ± 0.424 (0.831) C:85% T:85%	pCi/L		03/01/23 12:27	
Total Radium Calculation	Total Radium	0.963 ± 0.615 (1.06)	pCi/L		03/06/23 15:33	
<b>92651578002</b>	<b>YAT-AP2-EB-1</b>					
EPA 9315	Radium-226	0.113 ± 0.113 (0.213) C:86% T:NA	pCi/L		03/06/23 09:37	
EPA 9320	Radium-228	0.0539 ± 0.290 (0.664) C:83% T:89%	pCi/L		03/01/23 12:27	
Total Radium Calculation	Total Radium	0.167 ± 0.403 (0.877)	pCi/L		03/06/23 15:33	
<b>92651578003</b>	<b>YAT-AP2-FB-1</b>					
EPA 9315	Radium-226	0.126 ± 0.118 (0.219) C:89% T:NA	pCi/L		03/06/23 09:37	
EPA 9320	Radium-228	0.406 ± 0.328 (0.646) C:78% T:85%	pCi/L		03/01/23 12:27	
Total Radium Calculation	Total Radium	0.532 ± 0.446 (0.865)	pCi/L		03/06/23 15:33	
<b>92651578004</b>	<b>YAT-YGWC-26S</b>					
EPA 9315	Radium-226	0.0567 ± 0.120 (0.281) C:92% T:NA	pCi/L		03/03/23 08:29	
EPA 9320	Radium-228	0.403 ± 0.400 (0.817) C:78% T:74%	pCi/L		02/28/23 17:11	
Total Radium Calculation	Total Radium	0.460 ± 0.520 (1.10)	pCi/L		03/06/23 14:37	

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### SUMMARY OF DETECTION

Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92651578005</b>	<b>YAT-YGWC-27S</b>					
EPA 9315	Radium-226	0.107 ± 0.118 (0.232) C:93% T:NA	pCi/L		03/03/23 08:29	
EPA 9320	Radium-228	0.241 ± 0.307 (0.648) C:80% T:89%	pCi/L		02/28/23 17:11	
Total Radium Calculation	Total Radium	0.348 ± 0.425 (0.880)	pCi/L		03/06/23 14:37	
<b>92651578006</b>	<b>YAT-YGWC-27I</b>					
EPA 9315	Radium-226	1.82 ± 0.444 (0.213) C:93% T:NA	pCi/L		03/03/23 08:43	
EPA 9320	Radium-228	0.738 ± 0.422 (0.766) C:85% T:83%	pCi/L		02/28/23 17:11	
Total Radium Calculation	Total Radium	2.56 ± 0.866 (0.979)	pCi/L		03/06/23 14:37	
<b>92651578007</b>	<b>YAT-YGWC-28S</b>					
EPA 9315	Radium-226	0.241 ± 0.159 (0.241) C:96% T:NA	pCi/L		03/03/23 08:44	
EPA 9320	Radium-228	0.492 ± 0.390 (0.769) C:82% T:84%	pCi/L		02/28/23 17:12	
Total Radium Calculation	Total Radium	0.733 ± 0.549 (1.01)	pCi/L		03/06/23 14:37	
<b>92651578008</b>	<b>YAT-YGWC-28I</b>					
EPA 9315	Radium-226	0.164 ± 0.146 (0.266) C:94% T:NA	pCi/L		03/03/23 08:44	
EPA 9320	Radium-228	-0.244 ± 0.439 (1.10) C:75% T:84%	pCi/L		02/28/23 19:52	
Total Radium Calculation	Total Radium	0.164 ± 0.585 (1.37)	pCi/L		03/06/23 14:37	

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### SUMMARY OF DETECTION

Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92651578009</b>	<b>YAT-AP2-EB-2</b>					
EPA 9315	Radium-226	-0.0338 ± 0.0898 (0.286) C:90% T:NA	pCi/L		03/03/23 08:44	
EPA 9320	Radium-228	-0.156 ± 0.351 (0.884) C:78% T:89%	pCi/L		02/28/23 19:52	
Total Radium Calculation	Total Radium	0.000 ± 0.441 (1.17)	pCi/L		03/06/23 14:37	
<b>92651578010</b>	<b>YAT-AP2-FB-2</b>					
EPA 9315	Radium-226	0.0222 ± 0.0824 (0.214) C:92% T:NA	pCi/L		03/03/23 08:45	
EPA 9320	Radium-228	0.121 ± 0.371 (0.842) C:82% T:88%	pCi/L		02/28/23 19:53	
Total Radium Calculation	Total Radium	0.143 ± 0.453 (1.06)	pCi/L		03/06/23 14:37	
<b>92651578011</b>	<b>YAT-YGWC-261</b>					
EPA 9315	Radium-226	0.0771 ± 0.104 (0.215) C:91% T:NA	pCi/L		03/03/23 08:45	
EPA 9320	Radium-228	0.968 ± 0.581 (1.04) C:78% T:77%	pCi/L		02/28/23 19:53	
Total Radium Calculation	Total Radium	1.05 ± 0.685 (1.26)	pCi/L		03/06/23 14:37	
<b>92651578013</b>	<b>YAT-AP2-FD-1</b>					
EPA 9315	Radium-226	0.208 ± 0.161 (0.282) C:91% T:NA	pCi/L		03/03/23 08:45	
EPA 9320	Radium-228	0.859 ± 0.551 (1.05) C:82% T:94%	pCi/L		02/28/23 19:53	
Total Radium Calculation	Total Radium	1.07 ± 0.712 (1.33)	pCi/L		03/06/23 14:37	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

**Sample: YAT-YGWC-291A**      **Lab ID: 92651578001**      Collected: 02/08/23 17:35      Received: 02/09/23 12:35      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.349 ± 0.191 (0.231)</b> <b>C:91% T:NA</b>	pCi/L	03/03/23 08:25	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.614 ± 0.424 (0.831)</b> <b>C:85% T:85%</b>	pCi/L	03/01/23 12:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.963 ± 0.615 (1.06)</b>	pCi/L	03/06/23 15:33	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-AP2-EB-1</b> <b>Lab ID: 92651578002</b> Collected: 02/08/23 17:50      Received: 02/09/23 12:35      Matrix: Water						
PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.113 ± 0.113 (0.213)</b> <b>C:86% T:NA</b>	pCi/L	03/06/23 09:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0539 ± 0.290 (0.664)</b> <b>C:83% T:89%</b>	pCi/L	03/01/23 12:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.167 ± 0.403 (0.877)</b>	pCi/L	03/06/23 15:33	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-AP2-FB-1</b> <b>Lab ID: 92651578003</b> Collected: 02/08/23 17:40      Received: 02/09/23 12:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.126 ± 0.118 (0.219)</b> <b>C:89% T:NA</b>	pCi/L	03/06/23 09:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.406 ± 0.328 (0.646)</b> <b>C:78% T:85%</b>	pCi/L	03/01/23 12:27	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.532 ± 0.446 (0.865)</b>	pCi/L	03/06/23 15:33	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

**Sample: YAT-YGWC-26S**      **Lab ID: 92651578004**      Collected: 02/09/23 17:05      Received: 02/10/23 14:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0567 ± 0.120 (0.281)</b> <b>C:92% T:NA</b>	pCi/L	03/03/23 08:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.403 ± 0.400 (0.817)</b> <b>C:78% T:74%</b>	pCi/L	02/28/23 17:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.460 ± 0.520 (1.10)</b>	pCi/L	03/06/23 14:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

**Sample: YAT-YGWC-27S**      **Lab ID: 92651578005**      Collected: 02/09/23 09:40      Received: 02/10/23 14:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.107 ± 0.118 (0.232)</b> <b>C:93% T:NA</b>	pCi/L	03/03/23 08:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.241 ± 0.307 (0.648)</b> <b>C:80% T:89%</b>	pCi/L	02/28/23 17:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.348 ± 0.425 (0.880)</b>	pCi/L	03/06/23 14:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWC-271</b> <b>Lab ID: 92651578006</b> Collected: 02/09/23 11:45      Received: 02/10/23 14:00      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>1.82 ± 0.444 (0.213)</b> <b>C:93% T:NA</b>	pCi/L	03/03/23 08:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.738 ± 0.422 (0.766)</b> <b>C:85% T:83%</b>	pCi/L	02/28/23 17:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.56 ± 0.866 (0.979)</b>	pCi/L	03/06/23 14:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

**Sample: YAT-YGWC-28S**      **Lab ID: 92651578007**      Collected: 02/09/23 13:30      Received: 02/10/23 14:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.241 ± 0.159 (0.241)</b> <b>C:96% T:NA</b>	pCi/L	03/03/23 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.492 ± 0.390 (0.769)</b> <b>C:82% T:84%</b>	pCi/L	02/28/23 17:12	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.733 ± 0.549 (1.01)</b>	pCi/L	03/06/23 14:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

**Sample: YAT-YGWC-28I**      **Lab ID: 92651578008**      Collected: 02/09/23 14:55      Received: 02/10/23 14:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.164 ± 0.146 (0.266)</b> <b>C:94% T:NA</b>	pCi/L	03/03/23 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.244 ± 0.439 (1.10)</b> <b>C:75% T:84%</b>	pCi/L	02/28/23 19:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.164 ± 0.585 (1.37)</b>	pCi/L	03/06/23 14:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-AP2-EB-2</b> <b>Lab ID: 92651578009</b> Collected: 02/09/23 18:00      Received: 02/10/23 14:00      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.0338 ± 0.0898 (0.286)</b> <b>C:90% T:NA</b>	pCi/L	03/03/23 08:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>-0.156 ± 0.351 (0.884)</b> <b>C:78% T:89%</b>	pCi/L	02/28/23 19:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.000 ± 0.441 (1.17)</b>	pCi/L	03/06/23 14:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

**Sample: YAT-AP2-FB-2**      **Lab ID: 92651578010**      Collected: 02/09/23 17:20      Received: 02/10/23 14:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0222 ± 0.0824 (0.214)</b> <b>C:92% T:NA</b>	pCi/L	03/03/23 08:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.121 ± 0.371 (0.842)</b> <b>C:82% T:88%</b>	pCi/L	02/28/23 19:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.143 ± 0.453 (1.06)</b>	pCi/L	03/06/23 14:37	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

**Sample: YAT-YGWC-26I**      **Lab ID: 92651578011**      Collected: 02/09/23 17:00      Received: 02/10/23 14:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0771 ± 0.104 (0.215)</b> <b>C:91% T:NA</b>	pCi/L	03/03/23 08:45	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.968 ± 0.581 (1.04)</b> <b>C:78% T:77%</b>	pCi/L	02/28/23 19:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.05 ± 0.685 (1.26)</b>	pCi/L	03/06/23 14:37	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

**Sample:** YAT-AP2-FD-1      **Lab ID:** 92651578013      Collected: 02/09/23 00:00      Received: 02/10/23 14:00      Matrix: Water  
**PWS:**      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.208 ± 0.161 (0.282)</b> <b>C:91% T:NA</b>	pCi/L	03/03/23 08:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.859 ± 0.551 (1.05)</b> <b>C:82% T:94%</b>	pCi/L	02/28/23 19:53	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.07 ± 0.712 (1.33)</b>	pCi/L	03/06/23 14:37	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

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QC Batch:	567131	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92651578001, 92651578002, 92651578003

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METHOD BLANK: 2754456 Matrix: Water

Associated Lab Samples: 92651578001, 92651578002, 92651578003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.301 ± 0.288 (0.581) C:83% T:81%	pCi/L	03/01/23 12:26	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

QC Batch: 567130

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651578001, 92651578002, 92651578003

METHOD BLANK: 2754452

Matrix: Water

Associated Lab Samples: 92651578001, 92651578002, 92651578003

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0270 ± 0.0856 (0.277) C:88% T:NA	pCi/L	03/03/23 08:24	

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

### REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

QC Batch: 567129

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651578004, 92651578005, 92651578006, 92651578007, 92651578008, 92651578009, 92651578010, 92651578011, 92651578013

METHOD BLANK: 2754449

Matrix: Water

Associated Lab Samples: 92651578004, 92651578005, 92651578006, 92651578007, 92651578008, 92651578009, 92651578010, 92651578011, 92651578013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.353 ± 0.207 (0.369) C:83% T:82%	pCi/L	03/03/23 11:44	

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-2 RADS

Pace Project No.: 92651578

QC Batch: 567128

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651578004, 92651578005, 92651578006, 92651578007, 92651578008, 92651578009, 92651578010, 92651578011, 92651578013

METHOD BLANK: 2754448

Matrix: Water

Associated Lab Samples: 92651578004, 92651578005, 92651578006, 92651578007, 92651578008, 92651578009, 92651578010, 92651578011, 92651578013

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.113 ± 0.105 (0.185) C:106% T:NA	pCi/L	03/03/23 09:54	

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-2 RADS  
Pace Project No.: 92651578

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651578001	YAT-YGWC-29IA	EPA 9315	567130		
92651578002	YAT-AP2-EB-1	EPA 9315	567130		
92651578003	YAT-AP2-FB-1	EPA 9315	567130		
92651578004	YAT-YGWC-26S	EPA 9315	567128		
92651578005	YAT-YGWC-27S	EPA 9315	567128		
92651578006	YAT-YGWC-27I	EPA 9315	567128		
92651578007	YAT-YGWC-28S	EPA 9315	567128		
92651578008	YAT-YGWC-28I	EPA 9315	567128		
92651578009	YAT-AP2-EB-2	EPA 9315	567128		
92651578010	YAT-AP2-FB-2	EPA 9315	567128		
92651578011	YAT-YGWC-26I	EPA 9315	567128		
92651578013	YAT-AP2-FD-1	EPA 9315	567128		
92651578001	YAT-YGWC-29IA	EPA 9320	567131		
92651578002	YAT-AP2-EB-1	EPA 9320	567131		
92651578003	YAT-AP2-FB-1	EPA 9320	567131		
92651578004	YAT-YGWC-26S	EPA 9320	567129		
92651578005	YAT-YGWC-27S	EPA 9320	567129		
92651578006	YAT-YGWC-27I	EPA 9320	567129		
92651578007	YAT-YGWC-28S	EPA 9320	567129		
92651578008	YAT-YGWC-28I	EPA 9320	567129		
92651578009	YAT-AP2-EB-2	EPA 9320	567129		
92651578010	YAT-AP2-FB-2	EPA 9320	567129		
92651578011	YAT-YGWC-26I	EPA 9320	567129		
92651578013	YAT-AP2-FD-1	EPA 9320	567129		
92651578001	YAT-YGWC-29IA	Total Radium Calculation	571818		
92651578002	YAT-AP2-EB-1	Total Radium Calculation	571818		
92651578003	YAT-AP2-FB-1	Total Radium Calculation	571818		
92651578004	YAT-YGWC-26S	Total Radium Calculation	571751		
92651578005	YAT-YGWC-27S	Total Radium Calculation	571751		
92651578006	YAT-YGWC-27I	Total Radium Calculation	571751		
92651578007	YAT-YGWC-28S	Total Radium Calculation	571751		
92651578008	YAT-YGWC-28I	Total Radium Calculation	571751		
92651578009	YAT-AP2-EB-2	Total Radium Calculation	571751		
92651578010	YAT-AP2-FB-2	Total Radium Calculation	571751		
92651578011	YAT-YGWC-26I	Total Radium Calculation	571751		
92651578013	YAT-AP2-FD-1	Total Radium Calculation	571751		

### REPORT OF LABORATORY ANALYSIS

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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Knoxville

Sample Condition Upon Receipt

Client Name:

G A Power

Project #:

WO#: 92651578



Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/9/23  
CAV

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) 4.01

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

Cooler Temp Corrected (°C): 2.02

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:	<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 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: \_\_\_\_\_





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

Effective Date: 11/14/2022

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

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

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

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

Project #

WO#: 92651578

PM: BV

Due Date: 03/02/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																										
2		2	1																										
3		2	1																										
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Requested Client Information:</b>		<b>Requested Project Information:</b>		<b>Invoice Information:</b>	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
Email To:	laucoker@southernco.com	Task No.:	VAT-CGR-ASGSMT-202351	Address:	
Phone:	470 820 6176	Purchase Order #:		Paco Queue:	
Requested Due Date:	5/01/24	Project Name:	Plant Yates AP-2	Paco Project Manager:	Bonnie Yang
		Project Number:		Paco Profile #:	10940
				<b>Requested Analytical Filtrates (Y/N)</b>	
				<b>Residual Chlorine (Y/N)</b>	
				<b>Regulatory Agency</b>	
				<b>State / Location</b>	
				<b>Georgia</b>	

#	SAMPLE ID <small>(A-Z, 0-9, -)</small> Sample IDs must be unique	MATRIX <small>Drinking Water Wastewater Surface Water Groundwater Wetland Water Process Leachate Oil Air Other Thermal</small>	CODE <small>DW WW SW GW WL P SL CL WP AR OT TB</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Analysis Test	Y/N	Residual Chlorine (Y/N)	pH:												
						START DATE	START TIME	END DATE	END TIME		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 8315/8320	Alkalinity (SM2320B)						
1	YAT-YGWC-26S			WG G	G						6	3	3	3						X	X	X	X	X									
2	YAT-YGWC-26I			WG G	G						6	3	3	3						X	X	X	X	X									
3	YAT-YGWC-27S			WG G	G						6	3	3	3						X	X	X	X	X									
4	YAT-YGWC-27I			WG G	G						6	3	3	3						X	X	X	X	X									
5	YAT-YGWC-28S			WG G	G						6	3	3	3						X	X	X	X	X									
6	YAT-YGWC-28I			WG G	G						6	3	3	3						X	X	X	X	X									
7	YAT-AP2-FD-1			WG G	G						6	3	3	3						X	X	X	X	X									
8	YAT-YGWC-29IA			WG G	G						2/8	1735								X	X	X	X	X									
9	YAT-AP2-EB-1			WG G	G						2/8	1750								X	X	X	X	X									
10	YAT-AP2-EB-2			WG G	G						2/8	1740								X	X	X	X	X									
11	YAT-AP2-FB-1			WG G	G						2/8	1740								X	X	X	X	X									
12	YAT-AP2-FB-2			WG G	G						6	3	3	3						X	X	X	X	X									

<b>ADDITIONAL COMMENTS</b>				<b>RELINQUISHED BY / AFFILIATION</b>				<b>ACCEPTED BY / AFFILIATION</b>				<b>SAMPLE CONDITIONS</b>			
Amonia Sulf 310.0 (Cl, F, Sulfate)				Arcadis				WILLIAMS				TEMP in C			
App III Metals: Boron (B), Calcium (Ca), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Manganese (Mn), Mercury (Hg), Nickel (Ni), Selenium (Se), Silver (Ag), Vanadium (V), Zinc (Zn)				2/9/23 830				2/9/23 830				Received on Ice (Y/N)			
App IV: Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Silver (Ag), Vanadium (V), Zinc (Zn)				2/9/23 0825				2/9/23 0920				Custody Sealed Cooler (Y/N)			
7040a: Mercury (Hg). Also add Ca, Na, K for this event.				2/9/23 1335				2/9/23 1335				Samples Intact (Y/N)			
Alkalinity - report total, carbonate, and bicarbonate				2/9/23 1335				2/9/23 1335							

**SAMPLER NAME AND SIGNATURE:** [Signature]  
**PRINT Name of SAMPLER:** (Arcadis) - Jake Swanson  
**SIGNATURE OF SAMPLER:** (Arcadis) - [Signature] DATE Signed: 2/9/23



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651578

PM: BV Due Date: 03/02/23

CLIENT: GA-GA Power

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/18/23 CW

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Cooler Temp: 2.3 Correction Factor: Add/Subtract (°C) 401

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

Cooler Temp Corrected (°C): 2.4

USDA Regulated Soil (  N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	9.	YG WC-52 not present
-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

PZ-35 2/19/23 @ 1448 present + AP2-FD-1 2/19/23 - present but not listed on COC

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

PZ-35-012 and AP2-FD-1-013

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



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

Effective Date: 11/14/2022

**WO# : 92651578**  
 PM: BV Due Date: 03/02/23  
 CLIENT: GA-GA Power

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

Project #

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

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	2	1																										
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3	2	1																										
4	2	1																										
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11	2	1																										
12	2	1																										

**pH Adjustment Log for Preserved Samples**

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

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



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

Effective Date: 11/14/2022

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

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

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

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

Project

**WO# : 92651578**  
 PM: BV Due Date: 03/02/23  
 CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	VJGK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1		2	1																									
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11		2	1																									
12		2	1																									

**pH Adjustment Log for Preserved Samples**

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

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



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

Effective Date: 11/14/2022

**WO# : 92651578**

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

Project #

PM: BV

Due Date: 03/02/23

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

CLIENT: GA-GA Power

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1																											
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**pH Adjustment Log for Preserved Samples**

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

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name:
Email To: laucoker@southernco.com	Phone: 470.620.6176	Task No: VAT-CCR-ASSMT-20231	Purchase Order #: Plant Yates AP-2	Address:	Address:
Requested Due Date: 5/11/24	Fax:	Project Name: Plant Yates AP-2	Project Number:	Price Quote:	Price Profile #: 10840
				Price Project Manager: Bonnie Yang	Regulatory Agency: <u>Georgia</u>

ITEM #	SAMPLE ID <small>One Character per box: (A-Z, 0-9 /, -) Sample IDs must be unique</small>	MATRIX	CODE	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	Requester Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH:
						START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3					
1	VAT-YGWC-28S	Dinking Water	DW	WG G	G	2/9	1705	-	6	3	3									pH: 5.64 004
2	VAT-YGWC-28I	Water	WT	WG G	G	2/9	0940	-	6	3	3									pH: 6.64 005
3	VAT-YGWC-27S	Waste Water	WW	WG G	G	2/9	1445	-	6	3	3									pH: 6.48 010
4	VAT-YGWC-27I	Product	P	WG G	G	2/9	1330	-	6	3	3									pH: 6.87 002
5	VAT-YGWC-28S	Seawater	SL	WG G	G	2/9	1458	-	6	3	3									pH: 6.70 004
6	VAT-YGWC-28I	Other	OT	WG G	G			-	6	3	3									
7	VAT-AP2-FD-1	Other	OT	WG G	G			-	6	3	3									
8	VAT-YGWC-29IA	Other	OT	WG G	G			-	6	3	3									
9	VAT-AP2-EB-1	Other	OT	WG G	G			-	6	3	3									
10	VAT-AP2-EB-2	Other	OT	WG G	G	2/9	1800	-	6	3	3									pH: 0.59
11	VAT-AP2-FB-1	Other	OT	WG G	G			-	6	3	3									
12	VAT-AP2-FB-2	Other	OT	WG G	G	2/9	1720	-	6	3	3									pH: 0.10

<b>ADDITIONAL COMMENTS</b>		<b>RELEASUED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>ACCEPTED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>SAMPLE CONDITIONS</b>	
App III Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Vanadium (V), Zinc (Zn)		Arcadis		2/10/23		1200		Arcadis		2/10/23		1200		Received on Ice (Y/N)	
App IV: Metals: Arsenic (As), Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Vanadium (V), Zinc (Zn)		Arcadis		2/10/23		1400		Arcadis		2/10/23		1400		Custody Sealed Cooler (Y/N)	
7040X: Mercury (Hg), Arsenic (As), Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Vanadium (V), Zinc (Zn)		Arcadis		2/10/23		1400		Arcadis		2/10/23		1400		Samples Intact (Y/N)	
Alkalinity - report total, carbonate, and bicarbonate		Arcadis		2/10/23		1400		Arcadis		2/10/23		1400		TEMP in C	
Sampler Name and Signature: <u>Jake Swanson</u>		Signature of Sampler: <u>Jake Swanson</u>		DATE Signed: <u>2/9/23</u>											

# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Accedis Contacts	Company Name:	
Email To:	ljucoker@southemco.com	Task No.:	YAT-COR-ASSMT-202331	Address:	
Phone:	470.620.6176	Purchase Order #:		Trace Order:	
Requested Due Date:	5/10/23	Project Name:	Plant Yates AP-2	Trace Project Manager:	Bonnie Yang
		Project Number:		Trace Profile #:	10940

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX Drinking Water Waste Water Industrial Water Surface Water Other TS	CODE DW WW IWI SL OL WP AR OT TS	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analytes Test	Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)	pH: 7.26 5.76 8.11				
				DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						Other			
																							DATE	TIME	DATE
1	YAT-YGWC-265								0	3	3														
2	YAT-YGWC-261								6	3	3														
3	YAT-YGWC-275								6	3	3														
4	YAT-YGWC-271								6	3	3														
5	YAT-YGWC-285								6	3	3														
6	YAT-YGWC-281								6	3	3														
7	YAT-AP2-FD-1								6	3	3														
8	YAT-YGWC-291A								6	3	3														
9	YAT-AP2-EB-1								6	3	3														
10	YAT-AP2-EB-2								6	3	3														
11	YAT-AP2-FB-1								6	3	3														
12	YAT-AP2-FB-2								6	3	3														

REQUISITIONED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME
M. H. [Signature]		7/10/23	1200	[Signature]		7/10/23	1200
[Signature]		2/10/23	1400	[Signature]		2/10/23	1400

**APPENDIX III Metals:** Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Silver (Ag), Strontium (Sr), Vanadium (V), Zinc (Zn).

**APPENDIX IV Metals:** Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Silver (Ag), Strontium (Sr), Vanadium (V), Zinc (Zn).

**APPENDIX V Metals:** Aluminum (Al), Boron (B), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Silver (Ag), Strontium (Sr), Vanadium (V), Zinc (Zn).

**APPENDIX VI Metals:** Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Silver (Ag), Strontium (Sr), Vanadium (V), Zinc (Zn).

**APPENDIX VII Metals:** Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Silver (Ag), Strontium (Sr), Vanadium (V), Zinc (Zn).

**APPENDIX VIII Metals:** Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Silver (Ag), Strontium (Sr), Vanadium (V), Zinc (Zn).

**APPENDIX IX Metals:** Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Silver (Ag), Strontium (Sr), Vanadium (V), Zinc (Zn).

**APPENDIX X Metals:** Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Silver (Ag), Strontium (Sr), Vanadium (V), Zinc (Zn).

Page: 1 of 1



# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: ZPC  
Date: 2/24/2023  
Worklist: 71482  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2754449
MB concentration:	0.353
M/B 2 Sigma CSU:	0.207
MB MDC:	0.369
MB Numerical Performance Indicator:	3.34
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCST71482	LCSD71482
Count Date:	2/28/2023	2/28/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.398	33.398
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.801	0.800
Target Conc. (pCi/L, g, F):	4.172	4.173
Uncertainty (Calculated):	0.204	0.204
Result (pCi/L, g, F):	3.338	3.085
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.886	0.814
Numerical Performance Indicator:	-1.80	-2.54
Percent Recovery:	80.01%	73.93%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	
Sample I.D.:	LCST71482
Duplicate Sample I.D.:	LCSD71482
Sample Result (pCi/L, g, F):	3.338
Sample Duplicate Result (pCi/L, g, F):	0.886
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	3.085
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.814
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.413
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.91%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

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

Comments:

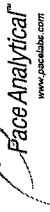
\*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepared.

*M/S activity = 1000 - pass*  
*M 3/6/23*

*M 3/6/23*

*VAL*  
*3/6/23*

# Quality Control Sample Performance Assessment



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

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	2754456
MB concentration:	0.301
M/B 2 Sigma CSU:	0.288
MB MDC:	0.581
MB Numerical Performance Indicator:	2.05
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	
	LCSD71484	LCSD71484
Count Date:	3/1/2023	Y
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.389	33.389
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.807	0.809
Target Conc. (pCi/L, g, F):	4.139	4.127
Uncertainty (Calculated):	0.203	0.202
Result (pCi/L, g, F):	4.239	3.636
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.991	0.862
Numerical Performance Indicator:	0.19	-1.09
Percent Recovery:	102.40%	88.09%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment	Duplicate Matrix Spike 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 (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below RL?	Sample Matrix Spike Duplicate Result:
NO	Duplicate Numerical Performance Indicator:
0.899	Duplicate Numerical Performance Indicator:
15.02%	(Based on the Percent Recoveries) MS/MSD Duplicate RPD:
Pass	MS/MSD Duplicate Status vs Numerical Indicator:
36%	MS/MSD Duplicate Status vs RPD:
	% RPD Limit:

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

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

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

Comments:

*Handwritten signature*

*VAR 3/2/23*

# Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 2/23/2023  
Worklist: 71481  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2754448
MB concentration:	0.113
MB 2 Sigma CSU:	0.105
MB MDC:	0.185
MB Numerical Performance Indicator:	2.11
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?		Y
	LCS71481	LCS71481	
Count Date:	3/3/2023	3/3/2023	LCS71481
Spike I.D.:	19-033	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019	24.019
Volume Used (mL):	0.10	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.507	4.740
Target Conc. (pCi/L, g, F):	4.800	4.740	0.057
Uncertainty (Calculated):	0.058	0.057	5.261
Result (pCi/L, g, F):	4.170	4.170	0.970
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.819	0.819	1.05
Numerical Performance Indicator:	-1.51	111.01%	Pass
Percent Recovery:	86.87%	Pass	N/A
Status vs Numerical Indicator:	N/A	125%	75%
Upper % Recovery Limits:	125%	75%	
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment	LCS71481	92651421017DUP
Sample I.D.:	LCS71481	92651421017DUP
Duplicate Sample I.D.:	4.170	0.450
Sample Result (pCi/L, g, F):	0.819	0.200
Sample Duplicate Result (pCi/L, g, F):	5.261	0.232
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.970	0.144
Are sample and/or duplicate results below RL?	NO	See Below #
Duplicate Numerical Performance Indicator:	-1.685	1.739
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	24.39%	64.12%
Duplicate Status vs Numerical Indicator:	Pass	N/A
Duplicate Status vs RPD:	N/A	Pass
% RPD Limit:	25%	25%

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

Comments:

ET  
3-3-23

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): Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS 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 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:

LAM313/23

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

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

Method Blank Assessment	
MB Sample ID	2754452
MB concentration:	-0.027
M/B 2 Sigma CSU:	0.086
MB MDC:	0.277
MB Numerical Performance Indicator:	-0.62
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

LCS (Y or N)?	Y	
	LCS71483	LCS071483
Count Date:	3/6/2023	3/6/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.505
Target Conc. (pCi/L, g, F):	4.767	4.755
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	5.059	4.773
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.918	0.884
Numerical Performance Indicator:	0.62	0.04
Percent Recovery:	106.12%	100.37%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	
Sample I.D.:	92651607001
Duplicate Sample I.D.:	92651607001DUP
Sample Result (pCi/L, g, F):	0.193
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.152
Sample Duplicate Result (pCi/L, g, F):	0.055
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.103
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	1.471
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	111.19%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	N/A
% RPD Limit:	25%

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

Comments:

5/1  
3-6-23

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

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Result: Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result: 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:

4M3/6/23

March 06, 2023

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

RE: Project: Plant Yates AP-2  
Pace Project No.: 92651576

Dear Ms. Petty:

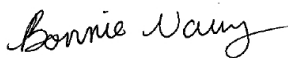
Enclosed are the analytical results for sample(s) received by the laboratory between February 09, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where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

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Lauren Coker, Georgia Pwer  
Noelia Gangi, Georgia Power  
Geoffrey Gay, ARCADIS - Atlanta  
Ben Hodges, Georgia Power-CCR  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
Alex Simpson, Arcadis  
Michael Smilley, Georgia Power  
Becky Steever, Arcadis

Tina Sullivan, ERM  
Jessica Ware, Arcadis - Atlanta  
Albert Zumbuhl, Arcadis



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

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### **Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006  
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001  
South Carolina Drinking Water Cert. #: 99006003  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DoH Drinking Water #: LA029  
Virginia/VELAP Certification #: 460221

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### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712  
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

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### **Pace Analytical Services Peachtree Corners**

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

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

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651576001	YAT-YGWC-29IA	Water	02/08/23 17:35	02/09/23 12:35
92651576002	YAT-AP2-EB-1	Water	02/08/23 17:50	02/09/23 12:35
92651576003	YAT-AP2-FB-1	Water	02/08/23 17:40	02/09/23 12:35
92651576004	YAT-YGWC-26S	Water	02/09/23 17:05	02/10/23 14:00
92651576005	YAT-YGWC-27S	Water	02/09/23 09:40	02/10/23 14:00
92651576006	YAT-YGWC-27I	Water	02/09/23 11:45	02/10/23 14:00
92651576007	YAT-YGWC-28S	Water	02/09/23 13:30	02/10/23 14:00
92651576008	YAT-YGWC-28I	Water	02/09/23 14:55	02/10/23 14:00
92651576009	YAT-AP2-EB-2	Water	02/09/23 18:00	02/10/23 14:00
92651576010	YAT-AP2-FB-2	Water	02/09/23 17:20	02/10/23 14:00
92651576011	YAT-YGWC-26I	Water	02/09/23 17:00	02/10/23 14:00
92651576013	YAT-AP2-FD-1	Water	02/09/23 00:00	02/10/23 14:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2

Pace Project No.: 92651576

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651576001	YAT-YGWC-291A	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651576002	YAT-AP2-EB-1	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651576003	YAT-AP2-FB-1	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651576004	YAT-YGWC-26S	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651576005	YAT-YGWC-27S	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651576006	YAT-YGWC-27I	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651576007	YAT-YGWC-28S	EPA 6010D	MS	4

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651576008	YAT-YGWC-28I	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
92651576009	YAT-AP2-EB-2	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92651576010	YAT-AP2-FB-2	SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
92651576011	YAT-YGWC-26I	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
92651576013	YAT-AP2-FD-1	EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

PASI-A = Pace Analytical Services - Asheville  
PASI-C = Pace Analytical Services - Charlotte

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-2

Pace Project No.: 92651576

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<b>Lab ID</b>	<b>Sample ID</b>	<b>Method</b>	<b>Analysts</b>	<b>Analytes Reported</b>
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PASI-GA = Pace Analytical Services - Peachtree Corners, GA

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates AP-2

Pace Project No.: 92651576

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651576001</b>	<b>YAT-YGWC-29IA</b>					
	Performed by	Client			03/03/23 10:44	
	Collected By	Jake Swanson			03/03/23 10:44	
	Collected Date	02/08/23			03/03/23 10:44	
	Collected Time	17:35			03/03/23 10:44	
	pH	6.67	Std. Units		03/03/23 10:44	
EPA 6010D	Potassium	9.1	mg/L	0.20	02/22/23 19:27	
EPA 6010D	Sodium	14.9	mg/L	1.0	02/22/23 19:27	M1
EPA 6010D	Calcium	11.9	mg/L	1.0	02/22/23 19:27	M1
EPA 6010D	Magnesium	10.7	mg/L	0.050	02/22/23 19:27	
EPA 6020B	Barium	0.098	mg/L	0.0050	02/23/23 16:14	
EPA 6020B	Boron	0.90	mg/L	0.040	02/23/23 16:14	
EPA 6020B	Cadmium	0.00028J	mg/L	0.00050	02/23/23 16:14	
EPA 6020B	Cobalt	0.0053	mg/L	0.0050	02/23/23 16:14	
EPA 6020B	Lithium	0.012J	mg/L	0.030	02/23/23 16:14	
EPA 6020B	Molybdenum	0.00099J	mg/L	0.010	02/23/23 16:14	
EPA 6020B	Thallium	0.00021J	mg/L	0.0010	02/23/23 16:14	
SM 2540C-2015	Total Dissolved Solids	158	mg/L	25.0	02/13/23 16:47	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	86.0	mg/L	5.0	02/16/23 19:23	
SM 2320B-2011	Alkalinity, Total as CaCO3	86.0	mg/L	5.0	02/16/23 19:23	
EPA 300.0 Rev 2.1 1993	Chloride	10.4	mg/L	1.0	02/11/23 16:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.092J	mg/L	0.10	02/11/23 16:22	
EPA 300.0 Rev 2.1 1993	Sulfate	23.7	mg/L	1.0	02/11/23 16:22	
<b>92651576004</b>	<b>YAT-YGWC-26S</b>					
	Performed by	Client			03/03/23 10:45	
	Collected By	Jake Swanson			03/03/23 10:45	
	Collected Date	02/09/23			03/03/23 10:45	
	Collected Time	17:05			03/03/23 10:45	
	pH	5.64	Std. Units		03/03/23 10:45	
EPA 6010D	Potassium	0.82	mg/L	0.20	02/22/23 20:49	
EPA 6010D	Sodium	17.3	mg/L	1.0	02/22/23 20:49	
EPA 6010D	Calcium	10.7	mg/L	1.0	02/22/23 20:49	
EPA 6010D	Magnesium	14.0	mg/L	0.050	02/22/23 20:49	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	02/23/23 16:38	
EPA 6020B	Barium	0.028	mg/L	0.0050	02/23/23 16:38	
EPA 6020B	Beryllium	0.000068J	mg/L	0.00050	02/23/23 16:38	
EPA 6020B	Boron	0.74	mg/L	0.040	02/23/23 16:38	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	02/23/23 16:38	
SM 2540C-2015	Total Dissolved Solids	196	mg/L	25.0	02/15/23 12:00	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	12.1	mg/L	5.0	02/17/23 16:19	
SM 2320B-2011	Alkalinity, Total as CaCO3	12.1	mg/L	5.0	02/17/23 16:19	
EPA 300.0 Rev 2.1 1993	Chloride	15.1	mg/L	1.0	02/14/23 13:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.10	02/14/23 13:33	
EPA 300.0 Rev 2.1 1993	Sulfate	89.7	mg/L	1.0	02/14/23 13:33	M1
<b>92651576005</b>	<b>YAT-YGWC-27S</b>					
	Performed by	Client			03/03/23 10:46	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates AP-2

Pace Project No.: 92651576

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651576005</b>	<b>YAT-YGWC-27S</b>					
	Collected By	Jake Swanson			03/03/23 10:46	
	Collected Date	02/09/23			03/03/23 10:46	
	Collected Time	09:40			03/03/23 10:46	
	pH	6.64	Std. Units		03/03/23 10:46	
EPA 6010D	Potassium	1.5	mg/L	0.20	02/22/23 20:54	
EPA 6010D	Sodium	15.7	mg/L	1.0	02/22/23 20:54	
EPA 6010D	Calcium	20.1	mg/L	1.0	02/22/23 20:54	
EPA 6010D	Magnesium	7.1	mg/L	0.050	02/22/23 20:54	
EPA 6020B	Barium	0.049	mg/L	0.0050	02/23/23 16:44	
EPA 6020B	Boron	1.0	mg/L	0.040	02/23/23 16:44	
EPA 6020B	Cobalt	0.0015J	mg/L	0.0050	02/23/23 16:44	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	02/15/23 12:00	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	96.4	mg/L	5.0	02/17/23 16:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	96.4	mg/L	5.0	02/17/23 16:25	
EPA 300.0 Rev 2.1 1993	Chloride	11.5	mg/L	1.0	02/14/23 17:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/14/23 17:08	
EPA 300.0 Rev 2.1 1993	Sulfate	13.7	mg/L	1.0	02/14/23 17:08	
<b>92651576006</b>	<b>YAT-YGWC-27I</b>					
	Performed by	Client			03/03/23 10:46	
	Collected By	Jake Swanson			03/03/23 10:46	
	Collected Date	02/09/23			03/03/23 10:46	
	Collected Time	11:45			03/03/23 10:46	
	pH	6.48	Std. Units		03/03/23 10:46	
EPA 6010D	Potassium	4.0	mg/L	0.20	02/22/23 20:58	
EPA 6010D	Sodium	11.7	mg/L	1.0	02/22/23 20:58	
EPA 6010D	Calcium	26.9	mg/L	1.0	02/22/23 20:58	
EPA 6010D	Magnesium	16.2	mg/L	0.050	02/22/23 20:58	
EPA 6020B	Antimony	0.0014J	mg/L	0.0030	02/23/23 17:29	
EPA 6020B	Barium	0.076	mg/L	0.0050	02/23/23 17:29	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	02/23/23 17:29	
EPA 6020B	Boron	2.2	mg/L	0.040	02/23/23 17:29	
EPA 6020B	Cobalt	0.0083	mg/L	0.0050	02/23/23 17:29	
EPA 6020B	Lithium	0.0069J	mg/L	0.030	02/23/23 17:29	
EPA 6020B	Molybdenum	0.0019J	mg/L	0.010	02/23/23 17:29	
SM 2540C-2015	Total Dissolved Solids	189	mg/L	25.0	02/15/23 12:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	148	mg/L	5.0	02/17/23 16:43	
SM 2320B-2011	Alkalinity, Total as CaCO3	148	mg/L	5.0	02/17/23 16:43	
EPA 300.0 Rev 2.1 1993	Chloride	13.9	mg/L	1.0	02/14/23 17:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/14/23 17:23	
EPA 300.0 Rev 2.1 1993	Sulfate	3.2	mg/L	1.0	02/14/23 17:23	
<b>92651576007</b>	<b>YAT-YGWC-28S</b>					
	Performed by	Client			03/03/23 10:47	
	Collected By	Jake Swanson			03/03/23 10:47	
	Collected Date	02/09/23			03/03/23 10:47	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651576007</b>	<b>YAT-YGWC-28S</b>					
	Collected Time	13:30			03/03/23 10:47	
	pH	6.87	Std. Units		03/03/23 10:47	
EPA 6010D	Potassium	4.0	mg/L	0.20	02/22/23 21:03	
EPA 6010D	Sodium	12.1	mg/L	1.0	02/22/23 21:03	
EPA 6010D	Calcium	33.1	mg/L	1.0	02/22/23 21:03	
EPA 6010D	Magnesium	23.0	mg/L	0.050	02/22/23 21:03	
EPA 6020B	Barium	0.22	mg/L	0.0050	02/23/23 17:35	
EPA 6020B	Boron	2.3	mg/L	0.040	02/23/23 17:35	
EPA 6020B	Chromium	0.0034J	mg/L	0.0050	02/23/23 17:35	
EPA 6020B	Cobalt	0.00074J	mg/L	0.0050	02/23/23 17:35	
EPA 6020B	Molybdenum	0.00083J	mg/L	0.010	02/23/23 17:35	
SM 2540C-2015	Total Dissolved Solids	226	mg/L	25.0	02/15/23 12:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	171	mg/L	5.0	02/17/23 16:54	
SM 2320B-2011	Alkalinity, Total as CaCO3	171	mg/L	5.0	02/17/23 16:54	
EPA 300.0 Rev 2.1 1993	Chloride	18.1	mg/L	1.0	02/14/23 17:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18	mg/L	0.10	02/14/23 17:38	
EPA 300.0 Rev 2.1 1993	Sulfate	16.0	mg/L	1.0	02/14/23 17:38	
<b>92651576008</b>	<b>YAT-YGWC-28I</b>					
	Performed by	Client			03/03/23 10:49	
	Collected By	Jake Swanson			03/03/23 10:49	
	Collected Date	02/09/23			03/03/23 10:49	
	Collected Time	14:55			03/03/23 10:49	
	pH	6.70	Std. Units		03/03/23 10:49	
EPA 6010D	Potassium	5.7	mg/L	0.20	02/22/23 21:08	
EPA 6010D	Sodium	8.9	mg/L	1.0	02/22/23 21:08	
EPA 6010D	Calcium	27.7	mg/L	1.0	02/22/23 21:08	
EPA 6010D	Magnesium	16.1	mg/L	0.050	02/22/23 21:08	
EPA 6020B	Barium	0.070	mg/L	0.0050	02/23/23 17:41	
EPA 6020B	Boron	1.8	mg/L	0.040	02/23/23 17:41	
EPA 6020B	Lithium	0.0066J	mg/L	0.030	02/23/23 17:41	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	02/23/23 17:41	
SM 2540C-2015	Total Dissolved Solids	184	mg/L	25.0	02/15/23 12:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	146	mg/L	5.0	02/17/23 17:05	
SM 2320B-2011	Alkalinity, Total as CaCO3	146	mg/L	5.0	02/17/23 17:05	
EPA 300.0 Rev 2.1 1993	Chloride	11.5	mg/L	1.0	02/14/23 17:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	02/14/23 17:53	
EPA 300.0 Rev 2.1 1993	Sulfate	7.4	mg/L	1.0	02/14/23 17:53	
<b>92651576009</b>	<b>YAT-AP2-EB-2</b>					
EPA 6020B	Boron	0.011J	mg/L	0.040	02/23/23 17:47	
SM 2540C-2015	Total Dissolved Solids	40.0	mg/L	25.0	02/15/23 12:02	
<b>92651576010</b>	<b>YAT-AP2-FB-2</b>					
SM 2540C-2015	Total Dissolved Solids	29.0	mg/L	25.0	02/15/23 12:02	
<b>92651576011</b>	<b>YAT-YGWC-26I</b>					
	Performed by	Client			03/03/23 10:50	

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### SUMMARY OF DETECTION

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651576011</b>	<b>YAT-YGWC-261</b>					
	Collected By	Jake Swanson			03/03/23 10:50	
	Collected Date	02/09/23			03/03/23 10:50	
	Collected Time	17:00			03/03/23 10:50	
	pH	5.76	Std. Units		03/03/23 10:50	
EPA 6010D	Potassium	2.1	mg/L	0.20	02/23/23 13:19	
EPA 6010D	Sodium	21.8	mg/L	1.0	02/23/23 13:19	
EPA 6010D	Calcium	15.8	mg/L	1.0	02/23/23 13:19	
EPA 6010D	Magnesium	11.1	mg/L	0.050	02/23/23 13:19	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/23/23 17:58	
EPA 6020B	Barium	0.058	mg/L	0.0050	02/23/23 17:58	
EPA 6020B	Boron	0.75	mg/L	0.040	02/23/23 17:58	
EPA 6020B	Lithium	0.0075J	mg/L	0.030	02/23/23 17:58	
EPA 6020B	Selenium	0.0042J	mg/L	0.0050	02/23/23 17:58	
SM 2540C-2015	Total Dissolved Solids	366	mg/L	25.0	02/15/23 12:03	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	30.3	mg/L	5.0	02/17/23 17:23	
SM 2320B-2011	Alkalinity, Total as CaCO3	30.3	mg/L	5.0	02/17/23 17:23	
EPA 300.0 Rev 2.1 1993	Chloride	16.6	mg/L	1.0	02/14/23 18:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.088J	mg/L	0.10	02/14/23 18:37	
EPA 300.0 Rev 2.1 1993	Sulfate	84.2	mg/L	1.0	02/14/23 18:37	
<b>92651576013</b>	<b>YAT-AP2-FD-1</b>					
EPA 6010D	Potassium	5.6	mg/L	0.20	02/22/23 21:42	
EPA 6010D	Sodium	8.8	mg/L	1.0	02/22/23 21:42	
EPA 6010D	Calcium	27.8	mg/L	1.0	02/22/23 21:42	
EPA 6010D	Magnesium	16.0	mg/L	0.050	02/22/23 21:42	
EPA 6020B	Barium	0.069	mg/L	0.0050	02/23/23 18:10	
EPA 6020B	Boron	1.8	mg/L	0.040	02/23/23 18:10	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	02/23/23 18:10	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	02/23/23 18:10	
SM 2540C-2015	Total Dissolved Solids	246	mg/L	25.0	02/15/23 18:38	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	149	mg/L	5.0	02/17/23 17:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	149	mg/L	5.0	02/17/23 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	11.9	mg/L	1.0	02/14/23 19:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/14/23 19:07	
EPA 300.0 Rev 2.1 1993	Sulfate	7.2	mg/L	1.0	02/14/23 19:07	

### REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Sample: <b>YAT-YGWC-291A</b> Lab ID: <b>92651576001</b> Collected: 02/08/23 17:35      Received: 02/09/23 12:35      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 10:44		
Collected By	<b>Jake Swanson</b>				1		03/03/23 10:44		
Collected Date	<b>02/08/23</b>				1		03/03/23 10:44		
Collected Time	<b>17:35</b>				1		03/03/23 10:44		
pH	<b>6.67</b>	Std. Units			1		03/03/23 10:44		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>9.1</b>	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 19:27	7440-09-7	
Sodium	<b>14.9</b>	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 19:27	7440-23-5	M1
Calcium	<b>11.9</b>	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 19:27	7440-70-2	M1
Magnesium	<b>10.7</b>	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 19:27	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 16:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 16:14	7440-38-2	
Barium	<b>0.098</b>	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 16:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 16:14	7440-41-7	
Boron	<b>0.90</b>	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 16:14	7440-42-8	
Cadmium	<b>0.00028J</b>	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 16:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 16:14	7440-47-3	
Cobalt	<b>0.0053</b>	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 16:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 16:14	7439-92-1	
Lithium	<b>0.012J</b>	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 16:14	7439-93-2	
Molybdenum	<b>0.00099J</b>	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 16:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 16:14	7782-49-2	
Thallium	<b>0.00021J</b>	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 16:14	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 10:30	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>158</b>	mg/L	25.0	25.0	1		02/13/23 16:47		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>86.0</b>	mg/L	5.0	5.0	1		02/16/23 19:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 19:23		
Alkalinity, Total as CaCO3	<b>86.0</b>	mg/L	5.0	5.0	1		02/16/23 19:23		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2

Pace Project No.: 92651576

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**Sample: YAT-YGWC-29IA**      **Lab ID: 92651576001**      Collected: 02/08/23 17:35      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>10.4</b>	mg/L	1.0	0.60	1		02/11/23 16:22	16887-00-6	
Fluoride	<b>0.092J</b>	mg/L	0.10	0.050	1		02/11/23 16:22	16984-48-8	
Sulfate	<b>23.7</b>	mg/L	1.0	0.50	1		02/11/23 16:22	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

**Sample: YAT-AP2-EB-1**      **Lab ID: 92651576002**      Collected: 02/08/23 17:50      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 19:56	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 19:56	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 19:56	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 19:56	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 16:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 16:20	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 16:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 16:20	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 16:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 16:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 16:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 16:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 16:20	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 16:20	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 16:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 16:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 16:20	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 10:32	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/13/23 16:48		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 19:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/16/23 19:31		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/16/23 19:31		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/11/23 16:36	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 16:36	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 16:36	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-2

Pace Project No.: 92651576

**Sample: YAT-AP2-FB-1**      **Lab ID: 92651576003**      Collected: 02/08/23 17:40      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:00	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:00	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:00	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:00	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 16:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 16:26	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 16:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 16:26	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 16:26	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 16:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 16:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 16:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 16:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 16:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 16:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 16:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 16:26	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 10:35	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/13/23 16:48		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/16/23 19:35		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/16/23 19:35		
Alkalinity, Total as CaCO <sub>3</sub>	ND	mg/L	5.0	5.0	1		02/16/23 19:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/11/23 16:50	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 16:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/11/23 16:50	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Sample: <b>YAT-YGWC-26S</b> Lab ID: <b>92651576004</b> Collected: 02/09/23 17:05      Received: 02/10/23 14:00      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 10:45		
Collected By	<b>Jake Swanson</b>				1		03/03/23 10:45		
Collected Date	<b>02/09/23</b>				1		03/03/23 10:45		
Collected Time	<b>17:05</b>				1		03/03/23 10:45		
pH	<b>5.64</b>	Std. Units			1		03/03/23 10:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>0.82</b>	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:49	7440-09-7	
Sodium	<b>17.3</b>	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:49	7440-23-5	
Calcium	<b>10.7</b>	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:49	7440-70-2	
Magnesium	<b>14.0</b>	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:49	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 16:38	7440-36-0	
Arsenic	<b>0.0022J</b>	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 16:38	7440-38-2	
Barium	<b>0.028</b>	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 16:38	7440-39-3	
Beryllium	<b>0.00068J</b>	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 16:38	7440-41-7	
Boron	<b>0.74</b>	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 16:38	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 16:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 16:38	7440-47-3	
Cobalt	<b>0.0017J</b>	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 16:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 16:38	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 16:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 16:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 16:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 16:38	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 10:46	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>196</b>	mg/L	25.0	25.0	1		02/15/23 12:00		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>12.1</b>	mg/L	5.0	5.0	1		02/17/23 16:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 16:19		
Alkalinity, Total as CaCO3	<b>12.1</b>	mg/L	5.0	5.0	1		02/17/23 16:19		

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### ANALYTICAL RESULTS

Project: Plant Yates AP-2

Pace Project No.: 92651576

**Sample: YAT-YGWC-26S**      **Lab ID: 92651576004**      Collected: 02/09/23 17:05      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	15.1	mg/L	1.0	0.60	1		02/14/23 13:33	16887-00-6	
Fluoride	0.070J	mg/L	0.10	0.050	1		02/14/23 13:33	16984-48-8	
Sulfate	89.7	mg/L	1.0	0.50	1		02/14/23 13:33	14808-79-8	M1

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Sample: <b>YAT-YGWC-27S</b> Lab ID: <b>92651576005</b> Collected: 02/09/23 09:40      Received: 02/10/23 14:00      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 10:46		
Collected By	<b>Jake Swanson</b>				1		03/03/23 10:46		
Collected Date	<b>02/09/23</b>				1		03/03/23 10:46		
Collected Time	<b>09:40</b>				1		03/03/23 10:46		
pH	<b>6.64</b>	Std. Units			1		03/03/23 10:46		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>1.5</b>	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:54	7440-09-7	
Sodium	<b>15.7</b>	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:54	7440-23-5	
Calcium	<b>20.1</b>	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:54	7440-70-2	
Magnesium	<b>7.1</b>	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:54	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 16:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 16:44	7440-38-2	
Barium	<b>0.049</b>	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 16:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 16:44	7440-41-7	
Boron	<b>1.0</b>	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 16:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 16:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 16:44	7440-47-3	
Cobalt	<b>0.0015J</b>	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 16:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 16:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 16:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 16:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 16:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 16:44	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 10:48	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>116</b>	mg/L	25.0	25.0	1		02/15/23 12:00		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>96.4</b>	mg/L	5.0	5.0	1		02/17/23 16:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 16:25		
Alkalinity, Total as CaCO3	<b>96.4</b>	mg/L	5.0	5.0	1		02/17/23 16:25		

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### ANALYTICAL RESULTS

Project: Plant Yates AP-2

Pace Project No.: 92651576

**Sample: YAT-YGWC-27S**      **Lab ID: 92651576005**      Collected: 02/09/23 09:40      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>11.5</b>	mg/L	1.0	0.60	1		02/14/23 17:08	16887-00-6	
Fluoride	<b>0.12</b>	mg/L	0.10	0.050	1		02/14/23 17:08	16984-48-8	
Sulfate	<b>13.7</b>	mg/L	1.0	0.50	1		02/14/23 17:08	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Sample: <b>YAT-YGWC-271</b> Lab ID: <b>92651576006</b> Collected: 02/09/23 11:45      Received: 02/10/23 14:00      Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 10:46		
Collected By	<b>Jake Swanson</b>				1		03/03/23 10:46		
Collected Date	<b>02/09/23</b>				1		03/03/23 10:46		
Collected Time	<b>11:45</b>				1		03/03/23 10:46		
pH	<b>6.48</b>	Std. Units			1		03/03/23 10:46		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>4.0</b>	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 20:58	7440-09-7	
Sodium	<b>11.7</b>	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 20:58	7440-23-5	
Calcium	<b>26.9</b>	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 20:58	7440-70-2	
Magnesium	<b>16.2</b>	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 20:58	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0014J</b>	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 17:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 17:29	7440-38-2	
Barium	<b>0.076</b>	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 17:29	7440-39-3	
Beryllium	<b>0.00010J</b>	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 17:29	7440-41-7	
Boron	<b>2.2</b>	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 17:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 17:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 17:29	7440-47-3	
Cobalt	<b>0.0083</b>	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 17:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 17:29	7439-92-1	
Lithium	<b>0.0069J</b>	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 17:29	7439-93-2	
Molybdenum	<b>0.0019J</b>	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 17:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 17:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 17:29	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 10:56	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>189</b>	mg/L	25.0	25.0	1		02/15/23 12:01		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>148</b>	mg/L	5.0	5.0	1		02/17/23 16:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 16:43		
Alkalinity, Total as CaCO3	<b>148</b>	mg/L	5.0	5.0	1		02/17/23 16:43		

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2

Pace Project No.: 92651576

**Sample: YAT-YGWC-271**      **Lab ID: 92651576006**      Collected: 02/09/23 11:45      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>13.9</b>	mg/L	1.0	0.60	1		02/14/23 17:23	16887-00-6	
Fluoride	<b>0.10</b>	mg/L	0.10	0.050	1		02/14/23 17:23	16984-48-8	
Sulfate	<b>3.2</b>	mg/L	1.0	0.50	1		02/14/23 17:23	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWC-28S</b>									
<b>Lab ID: 92651576007</b>									
Collected: 02/09/23 13:30									
Received: 02/10/23 14:00									
Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 10:47		
Collected By	<b>Jake Swanson</b>				1		03/03/23 10:47		
Collected Date	<b>02/09/23</b>				1		03/03/23 10:47		
Collected Time	<b>13:30</b>				1		03/03/23 10:47		
pH	<b>6.87</b>	Std. Units			1		03/03/23 10:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>4.0</b>	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 21:03	7440-09-7	
Sodium	<b>12.1</b>	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 21:03	7440-23-5	
Calcium	<b>33.1</b>	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 21:03	7440-70-2	
Magnesium	<b>23.0</b>	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 21:03	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 17:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 17:35	7440-38-2	
Barium	<b>0.22</b>	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 17:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 17:35	7440-41-7	
Boron	<b>2.3</b>	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 17:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 17:35	7440-43-9	
Chromium	<b>0.0034J</b>	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 17:35	7440-47-3	
Cobalt	<b>0.00074J</b>	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 17:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 17:35	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 17:35	7439-93-2	
Molybdenum	<b>0.00083J</b>	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 17:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 17:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 17:35	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 10:59	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>226</b>	mg/L	25.0	25.0	1		02/15/23 12:01		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>171</b>	mg/L	5.0	5.0	1		02/17/23 16:54		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/17/23 16:54		
Alkalinity, Total as CaCO <sub>3</sub>	<b>171</b>	mg/L	5.0	5.0	1		02/17/23 16:54		

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2

Pace Project No.: 92651576

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**Sample: YAT-YGWC-28S**      **Lab ID: 92651576007**      Collected: 02/09/23 13:30      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>18.1</b>	mg/L	1.0	0.60	1		02/14/23 17:38	16887-00-6	
Fluoride	<b>0.18</b>	mg/L	0.10	0.050	1		02/14/23 17:38	16984-48-8	
Sulfate	<b>16.0</b>	mg/L	1.0	0.50	1		02/14/23 17:38	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Sample: <b>YAT-YGWC-28I</b>		Lab ID: <b>92651576008</b>		Collected: 02/09/23 14:55		Received: 02/10/23 14:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 10:49		
Collected By	<b>Jake Swanson</b>				1		03/03/23 10:49		
Collected Date	<b>02/09/23</b>				1		03/03/23 10:49		
Collected Time	<b>14:55</b>				1		03/03/23 10:49		
pH	<b>6.70</b>	Std. Units			1		03/03/23 10:49		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>5.7</b>	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 21:08	7440-09-7	
Sodium	<b>8.9</b>	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 21:08	7440-23-5	
Calcium	<b>27.7</b>	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 21:08	7440-70-2	
Magnesium	<b>16.1</b>	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 21:08	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 17:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 17:41	7440-38-2	
Barium	<b>0.070</b>	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 17:41	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 17:41	7440-41-7	
Boron	<b>1.8</b>	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 17:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 17:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 17:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 17:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 17:41	7439-92-1	
Lithium	<b>0.0066J</b>	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 17:41	7439-93-2	
Molybdenum	<b>0.0014J</b>	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 17:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 17:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 17:41	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:01	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>184</b>	mg/L	25.0	25.0	1		02/15/23 12:01		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>146</b>	mg/L	5.0	5.0	1		02/17/23 17:05		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 17:05		
Alkalinity, Total as CaCO3	<b>146</b>	mg/L	5.0	5.0	1		02/17/23 17:05		

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2

Pace Project No.: 92651576

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**Sample: YAT-YGWC-28I**      **Lab ID: 92651576008**      Collected: 02/09/23 14:55      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>11.5</b>	mg/L	1.0	0.60	1		02/14/23 17:53	16887-00-6	
Fluoride	<b>0.14</b>	mg/L	0.10	0.050	1		02/14/23 17:53	16984-48-8	
Sulfate	<b>7.4</b>	mg/L	1.0	0.50	1		02/14/23 17:53	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

**Sample: YAT-AP2-EB-2**      **Lab ID: 92651576009**      Collected: 02/09/23 18:00      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 21:13	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 21:13	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 21:13	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 21:13	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 17:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 17:47	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 17:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 17:47	7440-41-7	
Boron	<b>0.011J</b>	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 17:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 17:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 17:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 17:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 17:47	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 17:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 17:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 17:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 17:47	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:04	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>40.0</b>	mg/L	25.0	25.0	1		02/15/23 12:02		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/17/23 17:15		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/17/23 17:15		
Alkalinity, Total as CaCO <sub>3</sub>	ND	mg/L	5.0	5.0	1		02/17/23 17:15		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/14/23 18:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 18:07	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/14/23 18:07	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

**Sample: YAT-AP2-FB-2**      **Lab ID: 92651576010**      Collected: 02/09/23 17:20      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	ND	mg/L	0.20	0.15	1	02/22/23 13:52	02/23/23 13:14	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/22/23 13:52	02/23/23 13:14	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/22/23 13:52	02/23/23 13:14	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/22/23 13:52	02/23/23 13:14	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 17:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 17:52	7440-38-2	
Barium	ND	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 17:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 17:52	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 17:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 17:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 17:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 17:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 17:52	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 17:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 17:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 17:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 17:52	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:07	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>29.0</b>	mg/L	25.0	25.0	1		02/15/23 12:02		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 17:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 17:19		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/17/23 17:19		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		02/14/23 18:22	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 18:22	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/14/23 18:22	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWC-26I</b>									
<b>Lab ID: 92651576011</b>									
Collected: 02/09/23 17:00									
Received: 02/10/23 14:00									
Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 10:50		
Collected By	<b>Jake Swanson</b>				1		03/03/23 10:50		
Collected Date	<b>02/09/23</b>				1		03/03/23 10:50		
Collected Time	<b>17:00</b>				1		03/03/23 10:50		
pH	<b>5.76</b>	Std. Units			1		03/03/23 10:50		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>2.1</b>	mg/L	0.20	0.15	1	02/22/23 13:52	02/23/23 13:19	7440-09-7	
Sodium	<b>21.8</b>	mg/L	1.0	0.58	1	02/22/23 13:52	02/23/23 13:19	7440-23-5	
Calcium	<b>15.8</b>	mg/L	1.0	0.12	1	02/22/23 13:52	02/23/23 13:19	7440-70-2	
Magnesium	<b>11.1</b>	mg/L	0.050	0.012	1	02/22/23 13:52	02/23/23 13:19	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 17:58	7440-36-0	
Arsenic	<b>0.0024J</b>	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 17:58	7440-38-2	
Barium	<b>0.058</b>	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 17:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 17:58	7440-41-7	
Boron	<b>0.75</b>	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 17:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 17:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 17:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 17:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 17:58	7439-92-1	
Lithium	<b>0.0075J</b>	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 17:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 17:58	7439-98-7	
Selenium	<b>0.0042J</b>	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 17:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 17:58	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:09	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>366</b>	mg/L	25.0	25.0	1		02/15/23 12:03		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>30.3</b>	mg/L	5.0	5.0	1		02/17/23 17:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 17:23		
Alkalinity, Total as CaCO3	<b>30.3</b>	mg/L	5.0	5.0	1		02/17/23 17:23		

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## ANALYTICAL RESULTS

Project: Plant Yates AP-2

Pace Project No.: 92651576

**Sample: YAT-YGWC-26I**      **Lab ID: 92651576011**      Collected: 02/09/23 17:00      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>16.6</b>	mg/L	1.0	0.60	1		02/14/23 18:37	16887-00-6	
Fluoride	<b>0.088J</b>	mg/L	0.10	0.050	1		02/14/23 18:37	16984-48-8	
Sulfate	<b>84.2</b>	mg/L	1.0	0.50	1		02/14/23 18:37	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

**Sample: YAT-AP2-FD-1**      **Lab ID: 92651576013**      Collected: 02/09/23 00:00      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D    Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	5.6	mg/L	0.20	0.15	1	02/22/23 13:52	02/22/23 21:42	7440-09-7	
Sodium	8.8	mg/L	1.0	0.58	1	02/22/23 13:52	02/22/23 21:42	7440-23-5	
Calcium	27.8	mg/L	1.0	0.12	1	02/22/23 13:52	02/22/23 21:42	7440-70-2	
Magnesium	16.0	mg/L	0.050	0.012	1	02/22/23 13:52	02/22/23 21:42	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B    Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/22/23 17:00	02/23/23 18:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/22/23 17:00	02/23/23 18:10	7440-38-2	
Barium	0.069	mg/L	0.0050	0.00067	1	02/22/23 17:00	02/23/23 18:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/22/23 17:00	02/23/23 18:10	7440-41-7	
Boron	1.8	mg/L	0.040	0.0086	1	02/22/23 17:00	02/23/23 18:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/22/23 17:00	02/23/23 18:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/22/23 17:00	02/23/23 18:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/22/23 17:00	02/23/23 18:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/22/23 17:00	02/23/23 18:10	7439-92-1	
Lithium	0.0062J	mg/L	0.030	0.00073	1	02/22/23 17:00	02/23/23 18:10	7439-93-2	
Molybdenum	0.0013J	mg/L	0.010	0.00074	1	02/22/23 17:00	02/23/23 18:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/22/23 17:00	02/23/23 18:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/22/23 17:00	02/23/23 18:10	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A    Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:14	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	246	mg/L	25.0	25.0	1		02/15/23 18:38		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	149	mg/L	5.0	5.0	1		02/17/23 17:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 17:35		
Alkalinity, Total as CaCO3	149	mg/L	5.0	5.0	1		02/17/23 17:35		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	11.9	mg/L	1.0	0.60	1		02/14/23 19:07	16887-00-6	
Fluoride	0.11	mg/L	0.10	0.050	1		02/14/23 19:07	16984-48-8	
Sulfate	7.2	mg/L	1.0	0.50	1		02/14/23 19:07	14808-79-8	

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch:	757456	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651576001, 92651576002, 92651576003, 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

METHOD BLANK: 3934803 Matrix: Water  
Associated Lab Samples: 92651576001, 92651576002, 92651576003, 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/22/23 19:18	
Magnesium	mg/L	ND	0.050	0.012	02/22/23 19:18	
Potassium	mg/L	ND	0.20	0.15	02/22/23 19:18	
Sodium	mg/L	ND	1.0	0.58	02/22/23 19:18	

LABORATORY CONTROL SAMPLE: 3934804

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.97J	97	80-120	
Magnesium	mg/L	1	0.98	98	80-120	
Potassium	mg/L	1	1.0	100	80-120	
Sodium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3934805 3934806

Parameter	Units	92651576001		3934806		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Calcium	mg/L	11.9	1	1	13.1	13.1	126	119	75-125	0	20	M1	
Magnesium	mg/L	10.7	1	1	12.0	11.9	125	118	75-125	1	20		
Potassium	mg/L	9.1	1	1	10.3	10.3	122	121	75-125	0	20		
Sodium	mg/L	14.9	1	1	16.2	16.1	135	123	75-125	1	20	M1	

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch: 757520 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92651576001, 92651576002, 92651576003, 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

METHOD BLANK: 3935190 Matrix: Water  
Associated Lab Samples: 92651576001, 92651576002, 92651576003, 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/23/23 16:03	
Arsenic	mg/L	ND	0.0050	0.0022	02/23/23 16:03	
Barium	mg/L	ND	0.0050	0.00067	02/23/23 16:03	
Beryllium	mg/L	ND	0.00050	0.000054	02/23/23 16:03	
Boron	mg/L	ND	0.040	0.0086	02/23/23 16:03	
Cadmium	mg/L	ND	0.00050	0.00011	02/23/23 16:03	
Chromium	mg/L	ND	0.0050	0.0011	02/23/23 16:03	
Cobalt	mg/L	ND	0.0050	0.00039	02/23/23 16:03	
Lead	mg/L	ND	0.0010	0.00089	02/23/23 16:03	
Lithium	mg/L	ND	0.030	0.00073	02/23/23 16:03	
Molybdenum	mg/L	ND	0.010	0.00074	02/23/23 16:03	
Selenium	mg/L	ND	0.0050	0.0014	02/23/23 16:03	
Thallium	mg/L	ND	0.0010	0.00018	02/23/23 16:03	

LABORATORY CONTROL SAMPLE: 3935191

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	106	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	106	80-120	
Boron	mg/L	1	1.1	105	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3935192 3935193

Parameter	Units	92651576005 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2

Pace Project No.: 92651576

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3935192												3935193	
Parameter	Units	92651576005		MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	Qual
		Result	Conc.	Spike	Spike	Result	Result	% Rec	% Rec	Limits	RPD		
Arsenic	mg/L	ND	0.1	0.1	0.1	0.10	0.10	101	101	75-125	1	20	
Barium	mg/L	0.049	0.1	0.1	0.1	0.16	0.16	111	107	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.1	0.10	0.10	102	101	75-125	2	20	
Boron	mg/L	1.0	1	1	1	2.1	2.0	106	94	75-125	6	20	
Cadmium	mg/L	ND	0.1	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	0.0015J	0.1	0.1	0.1	0.10	0.10	102	103	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Lithium	mg/L	ND	0.1	0.1	0.1	0.10	0.10	104	103	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.1	0.10	0.10	101	100	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch:	758312	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651576001, 92651576002, 92651576003, 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

METHOD BLANK: 3939045 Matrix: Water  
Associated Lab Samples: 92651576001, 92651576002, 92651576003, 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 10:25	

LABORATORY CONTROL SAMPLE: 3939046

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939047 3939048

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

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch: 755473      Analysis Method: SM 2540C-2015  
QC Batch Method: SM 2540C-2015      Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92651576001, 92651576002, 92651576003

METHOD BLANK: 3925080      Matrix: Water  
Associated Lab Samples: 92651576001, 92651576002, 92651576003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 16:22	

LABORATORY CONTROL SAMPLE: 3925081

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

SAMPLE DUPLICATE: 3925082

Parameter	Units	92651537006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	116	85.0	31	10	D6

SAMPLE DUPLICATE: 3925083

Parameter	Units	92651580003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	822	839	2	10	

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch: 755982 Analysis Method: SM 2540C-2015  
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011

METHOD BLANK: 3927602 Matrix: Water  
Associated Lab Samples: 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 11:50	

LABORATORY CONTROL SAMPLE: 3927603

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	377	94	80-120	

SAMPLE DUPLICATE: 3927604

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

SAMPLE DUPLICATE: 3927605

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

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch: 755997      Analysis Method: SM 2540C-2015  
QC Batch Method: SM 2540C-2015      Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92651576013

METHOD BLANK: 3927731      Matrix: Water  
Associated Lab Samples: 92651576013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 18:35	

LABORATORY CONTROL SAMPLE: 3927732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3927733

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

SAMPLE DUPLICATE: 3927734

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

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch: 756067 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92651576001, 92651576002, 92651576003

METHOD BLANK: 3928180 Matrix: Water  
Associated Lab Samples: 92651576001, 92651576002, 92651576003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/16/23 17:37	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 17:37	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/16/23 17:37	

LABORATORY CONTROL SAMPLE: 3928181

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.0	100	80-120	

LABORATORY CONTROL SAMPLE: 3928182

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.2	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928183 3928184

Parameter	Units	92651580009		92651580010		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Alkalinity, Total as CaCO3	mg/L	8.2	50	50	59.3	60.4	102	104	80-120	2	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928185 3928186

Parameter	Units	92651580010		92651580011		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Alkalinity, Total as CaCO3	mg/L	8.6	50	50	61.0	61.3	105	105	80-120	1	25		

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch: 756264 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

METHOD BLANK: 3929037 Matrix: Water  
Associated Lab Samples: 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	

LABORATORY CONTROL SAMPLE: 3929038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 3929039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929040 3929041

Parameter	Units	92651382018		92651382019		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Alkalinity, Total as CaCO3	mg/L	57.7	50	50	111	113	107	111	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929042 3929043

Parameter	Units	92651382019		92651382018		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Alkalinity, Total as CaCO3	mg/L	26.4	50	50	78.1	79.1	103	105	80-120	1	25		

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch: 755348 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92651576001, 92651576002, 92651576003

METHOD BLANK: 3924712 Matrix: Water  
Associated Lab Samples: 92651576001, 92651576002, 92651576003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/11/23 13:13	
Fluoride	mg/L	ND	0.10	0.050	02/11/23 13:13	
Sulfate	mg/L	ND	1.0	0.50	02/11/23 13:13	

LABORATORY CONTROL SAMPLE: 3924713

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.6	97	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	48.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924714 3924715

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651512003 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	6.1	50	50	54.1	55.5	96	99	90-110	3	10		
Fluoride	mg/L	0.086J	2.5	2.5	2.5	2.5	95	98	90-110	3	10		
Sulfate	mg/L	10.2	50	50	58.6	60.1	97	100	90-110	3	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3924716 3924717

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651580001 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	2.0	50	50	50.9	52.4	98	101	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	93	96	90-110	4	10		
Sulfate	mg/L	78.0	50	50	120	121	83	87	90-110	1	10 M1		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Yates AP-2  
Pace Project No.: 92651576

QC Batch: 755672 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

METHOD BLANK: 3926089 Matrix: Water  
Associated Lab Samples: 92651576004, 92651576005, 92651576006, 92651576007, 92651576008, 92651576009, 92651576010, 92651576011, 92651576013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 13:03	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 13:03	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 13:03	

LABORATORY CONTROL SAMPLE: 3926090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926091 3926092

Parameter	Units	92651576004		3926092		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	15.1	50	65.5	50	101	103	90-110	2	10	
Fluoride	mg/L	0.070J	2.5	2.6	2.5	101	104	90-110	3	10	
Sulfate	mg/L	89.7	50	147	50	114	116	90-110	1	10 M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926093 3926094

Parameter	Units	92651614002		3926094		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.						
Chloride	mg/L	5.9	50	58.0	50	104	105	90-110	0	10	
Fluoride	mg/L	0.11	2.5	2.8	2.5	106	108	90-110	1	10	
Sulfate	mg/L	193	50	243	50	101	102	90-110	0	10	

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Yates AP-2  
Pace Project No.: 92651576

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-2  
Pace Project No.: 92651576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651576001	YAT-YGWC-29IA				
92651576004	YAT-YGWC-26S				
92651576005	YAT-YGWC-27S				
92651576006	YAT-YGWC-27I				
92651576007	YAT-YGWC-28S				
92651576008	YAT-YGWC-28I				
92651576011	YAT-YGWC-26I				
92651576001	YAT-YGWC-29IA	EPA 3010A	757456	EPA 6010D	757555
92651576002	YAT-AP2-EB-1	EPA 3010A	757456	EPA 6010D	757555
92651576003	YAT-AP2-FB-1	EPA 3010A	757456	EPA 6010D	757555
92651576004	YAT-YGWC-26S	EPA 3010A	757456	EPA 6010D	757555
92651576005	YAT-YGWC-27S	EPA 3010A	757456	EPA 6010D	757555
92651576006	YAT-YGWC-27I	EPA 3010A	757456	EPA 6010D	757555
92651576007	YAT-YGWC-28S	EPA 3010A	757456	EPA 6010D	757555
92651576008	YAT-YGWC-28I	EPA 3010A	757456	EPA 6010D	757555
92651576009	YAT-AP2-EB-2	EPA 3010A	757456	EPA 6010D	757555
92651576010	YAT-AP2-FB-2	EPA 3010A	757456	EPA 6010D	757555
92651576011	YAT-YGWC-26I	EPA 3010A	757456	EPA 6010D	757555
92651576013	YAT-AP2-FD-1	EPA 3010A	757456	EPA 6010D	757555
92651576001	YAT-YGWC-29IA	EPA 3005A	757520	EPA 6020B	757668
92651576002	YAT-AP2-EB-1	EPA 3005A	757520	EPA 6020B	757668
92651576003	YAT-AP2-FB-1	EPA 3005A	757520	EPA 6020B	757668
92651576004	YAT-YGWC-26S	EPA 3005A	757520	EPA 6020B	757668
92651576005	YAT-YGWC-27S	EPA 3005A	757520	EPA 6020B	757668
92651576006	YAT-YGWC-27I	EPA 3005A	757520	EPA 6020B	757668
92651576007	YAT-YGWC-28S	EPA 3005A	757520	EPA 6020B	757668
92651576008	YAT-YGWC-28I	EPA 3005A	757520	EPA 6020B	757668
92651576009	YAT-AP2-EB-2	EPA 3005A	757520	EPA 6020B	757668
92651576010	YAT-AP2-FB-2	EPA 3005A	757520	EPA 6020B	757668
92651576011	YAT-YGWC-26I	EPA 3005A	757520	EPA 6020B	757668
92651576013	YAT-AP2-FD-1	EPA 3005A	757520	EPA 6020B	757668
92651576001	YAT-YGWC-29IA	EPA 7470A	758312	EPA 7470A	758407
92651576002	YAT-AP2-EB-1	EPA 7470A	758312	EPA 7470A	758407
92651576003	YAT-AP2-FB-1	EPA 7470A	758312	EPA 7470A	758407
92651576004	YAT-YGWC-26S	EPA 7470A	758312	EPA 7470A	758407
92651576005	YAT-YGWC-27S	EPA 7470A	758312	EPA 7470A	758407
92651576006	YAT-YGWC-27I	EPA 7470A	758312	EPA 7470A	758407
92651576007	YAT-YGWC-28S	EPA 7470A	758312	EPA 7470A	758407
92651576008	YAT-YGWC-28I	EPA 7470A	758312	EPA 7470A	758407
92651576009	YAT-AP2-EB-2	EPA 7470A	758312	EPA 7470A	758407
92651576010	YAT-AP2-FB-2	EPA 7470A	758312	EPA 7470A	758407
92651576011	YAT-YGWC-26I	EPA 7470A	758312	EPA 7470A	758407
92651576013	YAT-AP2-FD-1	EPA 7470A	758312	EPA 7470A	758407
92651576001	YAT-YGWC-29IA	SM 2540C-2015	755473		
92651576002	YAT-AP2-EB-1	SM 2540C-2015	755473		
92651576003	YAT-AP2-FB-1	SM 2540C-2015	755473		

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates AP-2

Pace Project No.: 92651576

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651576004	YAT-YGWC-26S	SM 2540C-2015	755982		
92651576005	YAT-YGWC-27S	SM 2540C-2015	755982		
92651576006	YAT-YGWC-27I	SM 2540C-2015	755982		
92651576007	YAT-YGWC-28S	SM 2540C-2015	755982		
92651576008	YAT-YGWC-28I	SM 2540C-2015	755982		
92651576009	YAT-AP2-EB-2	SM 2540C-2015	755982		
92651576010	YAT-AP2-FB-2	SM 2540C-2015	755982		
92651576011	YAT-YGWC-26I	SM 2540C-2015	755982		
92651576013	YAT-AP2-FD-1	SM 2540C-2015	755997		
92651576001	YAT-YGWC-29IA	SM 2320B-2011	756067		
92651576002	YAT-AP2-EB-1	SM 2320B-2011	756067		
92651576003	YAT-AP2-FB-1	SM 2320B-2011	756067		
92651576004	YAT-YGWC-26S	SM 2320B-2011	756264		
92651576005	YAT-YGWC-27S	SM 2320B-2011	756264		
92651576006	YAT-YGWC-27I	SM 2320B-2011	756264		
92651576007	YAT-YGWC-28S	SM 2320B-2011	756264		
92651576008	YAT-YGWC-28I	SM 2320B-2011	756264		
92651576009	YAT-AP2-EB-2	SM 2320B-2011	756264		
92651576010	YAT-AP2-FB-2	SM 2320B-2011	756264		
92651576011	YAT-YGWC-26I	SM 2320B-2011	756264		
92651576013	YAT-AP2-FD-1	SM 2320B-2011	756264		
92651576001	YAT-YGWC-29IA	EPA 300.0 Rev 2.1 1993	755348		
92651576002	YAT-AP2-EB-1	EPA 300.0 Rev 2.1 1993	755348		
92651576003	YAT-AP2-FB-1	EPA 300.0 Rev 2.1 1993	755348		
92651576004	YAT-YGWC-26S	EPA 300.0 Rev 2.1 1993	755672		
92651576005	YAT-YGWC-27S	EPA 300.0 Rev 2.1 1993	755672		
92651576006	YAT-YGWC-27I	EPA 300.0 Rev 2.1 1993	755672		
92651576007	YAT-YGWC-28S	EPA 300.0 Rev 2.1 1993	755672		
92651576008	YAT-YGWC-28I	EPA 300.0 Rev 2.1 1993	755672		
92651576009	YAT-AP2-EB-2	EPA 300.0 Rev 2.1 1993	755672		
92651576010	YAT-AP2-FB-2	EPA 300.0 Rev 2.1 1993	755672		
92651576011	YAT-YGWC-26I	EPA 300.0 Rev 2.1 1993	755672		
92651576013	YAT-AP2-FD-1	EPA 300.0 Rev 2.1 1993	755672		

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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville

Sample Condition Upon Receipt

Client Name:

G A Power

Project #:

WO#: 92651576



Courier:  Fed Ex  Pace  UPS  USPS  Client  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 2.2

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

Date/Initials Person Examining Contents: 2/9/23  
CS  
Biological Tissue Frozen?  Yes  No  N/A  
Temp should be above freezing to 6°C  
 Samples out of temp criteria. Samples on ice, cooling process has begun

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_





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

Effective Date: 11/14/2022

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

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

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

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

Project #

WO#: 92651576

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1																											
2	2	1																											
3	2	1																											
4																													
5																													
6																													
7																													
8																													
9																													
10																													
11																													
12																													

pH Adjustment Log for Preserved Samples

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

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

<b>Section A</b> Requested Client Information:		<b>Section B</b> Requested Project Information:		<b>Section C</b> Invoice Information:	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name:
Email To: lhaucoker@southernco.com	Phone: 470 820 6176	Task No: VAT-CCR-ASSMT-202331	Purchase Order #:	Address:	State / Location: Georgia
Requested Due Date: 5/10/24	Fax:	Project Name: Plant Yates AP-2	Project Number:	Trace Quote:	Trace Project Manager: Bonnie Yang
				Trace Profile #:	10840

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -)	MATRIX Drinking Water Wastewater Surface Water Ground Water Other	CODE DW WW SW GW OT	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analysis Test Y/N	Residual Chlorine (Y/N)
				DATE	TIME	DATE	TIME					
1	YAT-YGWC-285	WG G	WG G					6		X	X	X
2	YAT-YGWC-281	WG G	WG G					6		X	X	X
3	YAT-YGWC-275	WG G	WG G					6		X	X	X
4	YAT-YGWC-271	WG G	WG G					6		X	X	X
5	YAT-YGWC-285	WG G	WG G					6		X	X	X
6	YAT-YGWC-281	WG G	WG G					6		X	X	X
7	YAT-AP2-FD-1	WG G	WG G	2/8	1735			6		X	X	X
8	YAT-YGWC-281A	WG G	WG G	2/8	1735			6		X	X	X
9	YAT-AP2-EB-1	WG G	WG G	2/8	1735			6		X	X	X
10	YAT-AP2-EB-2	WG G	WG G	2/8	1735			6		X	X	X
11	YAT-AP2-FB-1	WG G	WG G	2/8	1740			6		X	X	X
12	YAT-AP2-FB-2	WG G	WG G	2/8	1740			6		X	X	X

ADDITIONAL COMMENTS		RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Antonia Sule 300.0 (Cl, F, Sulfide)		Arcadis	2/19/23	830	William Adams	2/19/23	830
App III Metals: Boron 60208, Ca 60100, App IV: Metals 60208, Arsenic (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Toluene (Mnony) (Hg), Also add Ca, Na, K for this event. Activity - report total, carbonate, and bicarbonates		Arcadis Lyan Williams / Pac	2/19/23	1235	William Adams Lyan Williams / Pac	2/19/23	1235

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: (Arcadis) Jake Swanson	DATE signed: 2/19/23
SIGNATURE of SAMPLER: (Arcadis)	



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #

WO#: 92651576

PM: BV Due Date: 02/23/23
CLIENT: GA-GA Power

Courier: Fed Ex, UPS, USPS, Other, Pace, Other

Custody Seal Present? Yes, No, Seals Intact? Yes, No

Packing Material: Bubble Wrap, Bubble Bags, None, Other

Thermometer: IR Gun ID: 2/14, Type of Ice: Wet, Blue, None

Cooler Temp: 2.3, Correction Factor: 40, Add/Subtract (C)

Cooler Temp Corrected (C): 2.4

USDA Regulated Soil (N/A, water sample)

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

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

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

Table with 11 rows and 5 columns: Chain of Custody Present?, Samples Arrived within Hold Time?, Short Hold Time Analysis (<72 hr.)?, Rush Turn Around Time Requested?, Sufficient Volume?, Correct Containers Used?, Containers Intact?, Dissolved analysis: Samples Field Filtered?, Sample Labels Match COC?, Headspace in VOA Vials (>5-6mm)?, Trip Blank Present?, Trip Blank Custody Seals Present?.

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes, No

PZ-35 2/19/23 @ 1448 present + AP2-FD-1 2/19/23 - present but not listed on COC

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

PZ-35 - 012 and AP2-FD-1 - 013

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:



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

Effective Date: 11/14/2022

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

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

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

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

Project #

WO#: 92651576

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1		2	1																									
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pH Adjustment Log for Preserved Samples

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

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



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

Effective Date: 11/14/2022

**WO# : 92651576**

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

Project #

PM: BV

Due Date: 02/23/23

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
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**pH Adjustment Log for Preserved Samples**

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

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



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

Effective Date: 11/14/2022

\*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, LHMg

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

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

Project #

**WO# : 92651576**

PM: BV

Due Date: 02/23/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 7N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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**pH Adjustment Log for Preserved Samples**

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

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information: Company: <b>GA Power</b> Address: <b>Atlanta, GA</b> Email To: <b>ljacocker@southernco.com</b> Phone: <b>470.620.6176</b> Fax: _____ Requested Due Date: <b>5/11/13</b>	<b>Section B</b> Required Project Information: Report To: <b>SCS Contacts</b> Copy To: <b>Acadis Contacts</b> Task No: <b>YAT-CCR-ASSMT-20231</b> Purchase Order #: _____ Project Name: <b>Plant Yates AP-2</b> Project Number: _____
<b>Section C</b> Invoice Information: Attention: <b>Southern Co.</b> Company Name: _____ Address: _____ POC: <b>Quinlan</b> POC Project Manager: <b>Bonnie Yang</b> POC Profile #: <b>10840</b>	
Regulatory Agency: _____ State / Location: <b>Georgia</b>	

ITEM #	SAMPLE ID <small>One Character per box: (A-Z, 0-9 / -)</small> <small>Sample IDs must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSIS TEST					Residual Chlorine (Y/N)	PH															
				START	END						Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Y/N	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)			RAD 8315/8320	Alkalinity (SM2320B)													
1	YAT-YGWC-265	WG G	G	2/9	1705																																		
2	YAT-YGWC-261	WG G	G	2/9	0940																																		
3	YAT-YGWC-275	WG G	G	2/9	1145																																		
4	YAT-YGWC-271	WG G	G	2/9	1330																																		
5	YAT-YGWC-285	WG G	G	2/9	1455																																		
6	YAT-YGWC-281	WG G	G	2/9	1455																																		
7	YAT-AP2-FD-1	WG G	G																																				
8	YAT-YGWC-291A	WG G	G																																				
9	YAT-AP2-EB-1	WG G	G																																				
10	YAT-AP2-EB-2	WG G	G	2/9	1800																																		
11	YAT-AP2-EB-1	WG G	G																																				
12	YAT-AP2-EB-2	WG G	G	2/9	1720																																		
ADDITIONAL COMMENTS: Arcadis 2/10/13 1200 Acadis 2/10/13 1400 Acadis 2/10/13 1200 Acadis 2/10/13 1400 Acadis 2/10/13 1200 Acadis 2/10/13 1400 Acadis 2/10/13 1200 Acadis 2/10/13 1400												RELINQUISHED BY / AFFILIATION: DATE: _____ TIME: _____			ACCEPTED BY / AFFILIATION: DATE: _____ TIME: _____			SAMPLE CONDITIONS: PH: _____																					

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - **Jake Swanson**

SIGNATURE of SAMPLER: *(Signature)*

DATE Signed: **2/9/13**

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.

<b>Section A</b> Required Client Information: Company: GA Power Address: Atlanta, GA Email To: <a href="mailto:ljaucoker@southernco.com">ljaucoker@southernco.com</a> Phone: 470.620.6176 Fax: Requested Due Date: 5/10/23	<b>Section B</b> Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Task No: YAT-CGR-ASSMT-202331 Purchase Order #: Project Name: Plant Yates AP-2 Project Number:	<b>Section C</b> Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quade: Pace Project Manager: Bonnie Yang Pace Profile #: 10840
Regulatory Agency State / Location Georgia		Page:   of

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique</small>	MATRIX	CODE	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	Requester Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH:	
						START DATE	END DATE									
1	YAT-YGWC-26S	Dinking Water	DW	WG G	G	-	-	-	6 3 3							
2	YAT-YGWC-26I	Water	WT	WG G	G	2/12/23	08	-	6 3 3							
3	YAT-YGWC-27S	Water	WW	WG G	G	-	-	-	6 3 3							
4	YAT-YGWC-27I	Product	P	WG G	G	-	-	-	6 3 3							
5	YAT-YGWC-28S	Decanted	SL	WG G	G	-	-	-	6 3 3							
6	YAT-YGWC-28I	Other	OT	WG G	G	-	-	-	6 3 3							
7	YAT-AP2-FD-1	Other	TS	WG G	G	-	-	-	6 3 3							
8	YAT-YGWC-29I/A			WG G	G	-	-	-	6 3 3							
9	YAT-AP2-EB-1			WG G	G	-	-	-	6 3 3							
10	YAT-AP2-EB-2			WG G	G	-	-	-	6 3 3							
11	YAT-AP2-FB-1			WG G	G	-	-	-	6 3 3							
12	YAT-AP2-FB-2			WG G	G	-	-	-	6 3 3							

ADDITIONAL COMMENTS Ammonia Sulph 300.0 (Cl. F. Sulfate) App III Metals: Boron (B208), Ca 60100 App IV: Metals 60208: Arsenic (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate				RELINQUISHED BY / AFFILIATION 7/10/23 Arcadis	DATE 7/10/23	TIME 1200	ACCEPTED BY / AFFILIATION 7/10/23 Arcadis	DATE 7/10/23	TIME 1400
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: (Arcadis) - <i>Macke Crest</i> SIGNATURE of SAMPLER: (Arcadis) - <i>Macke Crest</i> DATE Signed: 2/10/23		TEMP in C			Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)		



# Upgradient Wells

Georgia Power Co. – Plant Yates

# Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92651382 and 92651421

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #49109R

Review Level: Tier II

Project: 30143607.3B

## Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92651382 and 92651421 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-1I	92651382001 92651421001	Water	2/7/2023		X	X	X
YAT-YGWA-1D	92651382002 92651421002	Water	2/7/2023		X	X	X
YAT-YGWA-2I	92651382003 92651421003	Water	2/7/2023		X	X	X
YAT-GWA-2	92651382004 92651421004	Water	2/7/2023		X	X	X
YAT-YGWA-5D	92651382005 92651421005	Water	2/7/2023		X	X	X
YAT-YGWA-20S	92651382006 92651421006	Water	2/7/2023		X	X	X
YAT-YGWA-21I	92651382007 92651421007	Water	2/7/2023		X	X	X
YAT-YGWA-17S	92651382008 92651421008	Water	2/7/2023		X	X	X
YAT-YGWA-18S	92651382009 92651421009	Water	2/7/2023		X	X	X
YAT-YGWA-18I	92651382010 92651421010	Water	2/7/2023		X	X	X
YAT-YGWA-39	92651382011 92651421011	Water	2/7/2023		X	X	X
YAT-YGWA-47	92651382012 92651421012	Water	2/8/2023		X	X	X

Data Review Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-30I	92651382013 92651421013	Water	2/8/2023		X	X	X
YAT-YGWA-14S	92651382014 92651421014	Water	2/8/2023		X	X	X
YAT-YGWA-3I	92651382015 92651421015	Water	2/8/2023		X	X	X
YAT-YGWA-3D	92651382016 92651421016	Water	2/8/2023		X	X	X
YAT-YGWA-40	92651382017 92651421017	Water	2/8/2023		X	X	X
YAT-YGWA-4I	92651382018 92651421018	Water	2/9/2023		X	X	X
YAT-YGWA-5I	92651382019 92651421019	Water	2/9/2023		X	X	X

**Notes:**

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

## Analytical Data Package Documentation

The table below evaluates the data package completeness.

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

**Note:**

QA = quality assurance

## Inorganic Analysis Introduction

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

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

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

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

## Data Review Report

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

## Metals Analyses

### 1. Holding Times

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

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

**Note:**

s.u. = standard units

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

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

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

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

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

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

#### 3.1 MS/MSD Analysis

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

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



The MS/MSD analysis performed using sample YAT-YGWA-211 in association with SW-846 6020B analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

### **3.2 Laboratory Duplicate Analysis**

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D and SW-846 6020B. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

## **4. Field Duplicate Analysis**

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

A field duplicate sample was not collected in association with this SDG.

## **5. Laboratory Control Sample (LCS) Analysis**

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

The LCS analysis exhibited recoveries within the control limits.

## **6. System Performance and Overall Assessment**

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

## Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES)</b> <b>Inductively Coupled Plasma-Mass Spectrometry (ICP-MS)</b> <b>Atomic Absorption – Manual Cold Vapor (CV)</b>					
<b>Tier II Validation</b>					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

**Notes:**

%R     Percent recovery

RPD    Relative percent difference

## General Chemistry Analyses

### 1. Holding Times

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

Method	Matrix	Holding Time	Preservation
pH by SM4500-H+ B	Water	ASAP	Cool to <6°C
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

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

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

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

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

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

#### 3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using samples YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-4I, and YAT-YGWA-5I in association with alkalinity analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWA-18I and YAT-YGWA-3I in association with anions analysis exhibited recoveries within the control limits.

### **3.2 Laboratory Duplicate Analysis**

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

The laboratory duplicate analysis performed using samples YAT-YGWA-17S and YAT-YGWA-47 in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

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

## **4. Field Duplicate Analysis**

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

A field duplicate sample was not collected in association with this SDG.

## **5. Laboratory Control Sample (LCS) Analysis**

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

The LCS analysis exhibited recoveries within the control limits.

## **6. System Performance and Overall Assessment**

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

## Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>Miscellaneous Instrumentation</b>					
<b>Tier II Validation</b>					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
Laboratory Duplicate (RPD)		X		X	
Field Duplicate (RPD)	X				X

**Notes:**

%R     Percent recovery

RPD     Relative percent difference

## Radiological Analyses

### 1. Holding Times

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

Method	Matrix	Holding Time	Preservation
Radium-226 by SW-846 9315	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.
Radium-228 by SW-846 9320	Water	180 days from collection to analysis	Preserved to a pH of less than 2 s.u.

**Note:**

s.u. = standard units

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits ( $\pm 2$  sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

For blanks to be considered not applicable, verify net blank results are less than the associated uncertainty by evaluating the blank results based on the following three criteria. If either of these criteria is true, the blank is considered not suspect of contamination (or non-detect).

1. Is the blank result less than the uncertainty and less than the MDC?
2. Does the blank have an uncertainty greater than the result (or indistinguishable from background) or does the blank result fall between its uncertainty and its MDC?

If the blank QC results fall outside the appropriate tolerance limits or if the net blank results are not less than the associated uncertainty, the following equation for normalized absolute difference (NAD) should be used in determining the effect of possible blank contamination on the sample results:

$$\text{Normalized absolute difference}_{\text{MethodBlank}} = \frac{| \text{Sample} - \text{Blank} |}{\sqrt{(U_{\text{Sample}})^2 + (U_{\text{Blank}})^2}}$$

Where:

$U_{\text{Sample}}$  = uncertainty of the sample

$U_{\text{Blank}}$  = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

Normalized Absolute Difference	Qualification
> 2.58	None
1.96 > x < 2.58	J
x < 1.96	J*

**Note:**

\* = Minimally the result should be qualified as estimated, J; however, if other quality indicators are deficient the validator may determine the result should be qualified as rejected, R

Radium-226 was detected in the method blank, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

Radium-228 was detected in the method blank at an activity greater than the uncertainty and MDC. The NAD was calculated for each sample. The Radium-228 results in samples YAT-GWA-2, YAT-YGWA-5D, YAT-YGWA-21I, YAT-YGWA-39, YAT-YGWA-3I, and YAT-YGWA-3D were qualified as “J” since the NAD were less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-2I, YAT-YGWA-20S, YAT-YGWA-17S, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-47, YAT-YGWA-30I, and YAT-YGWA-14S since the activities were less than the MDC.

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

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

#### 3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte’s concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

The numerical performance indicator for a matrix spike sample is calculated by:

$$Z_{MS} = \frac{x - x_0 - c}{\sqrt{u^2(x) + u^2(x_0) + u^2(c)}}$$

Where:

x = measured concentration of the spiked sample.

x<sub>0</sub> = measured concentration of the unspiked sample.

c = spike concentration added.

$u^2(x)$ ,  $u^2(x_0)$ ,  $u^2(c)$  = the squares of the respective standard uncertainties of these values.

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

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

## 3.2 Laboratory Duplicate Analysis

Duplicate analyses are indicators of laboratory precision based on each sample matrix. For replicate analysis results to be considered in agreement the duplicate error ratio (DER) must be less than 2.13. In the event the DER is outside of the limit of 2.13, a numerical indicator to make assessments is calculated, with a limit of  $\pm 3$  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  $\pm 3$  sigma. Warning limits have been established as  $\pm 2$  sigma.

Laboratory duplicate analysis was not performed using a sample from this SDG.

## 4. Field Duplicate Analysis

Field duplicate analysis is used to assess the overall precision of the field sampling procedures and analytical method. There are no specific review criteria for radiological field replicate analyses comparability. The degree of agreement between these replicates is to be used in conjunction with all of the remaining quality control results as an aid in the decision as to the overall quality of the data. Data are not to be qualified due to field replicates alone. To determine the level of agreement between the replicates, the following guidelines have been established:

Data should be considered in agreement if results are within a factor of four of each other. Data between a factor of four and five of each other should be considered as a minor discrepancy and data greater than a factor of five should be considered a major discrepancy.

A field duplicate sample was not collected in association with this SDG.

## 5. Tracer or Carrier

Tracers and carriers are used in radiological separation methods to provide evaluation of chemical separation. Chemical yield is evaluated through the recovery of chemical species spiked into samples. Yield is evaluated



radiometrically with a tracer and gravimetrically with a carrier. A control limit of 30% to 110% is applied to each sample spiked with either a carrier and/or a tracer.

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

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

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

## 7. Isotope Identification

For sample results to be considered “non-detect”, evaluate data based on the following two criteria. If either one of these criteria is true, the sample result is considered “non-detect”.

1. Sample result is less than the uncertainty and less than the MDC/MDA; or
2. Sample has an uncertainty greater than the result (or indistinguishable from background) or result falls between its uncertainty and its MDC/MDA.

Based on the above criteria sample results should be considered non-detect as follows:

- YAT-GWA-2 – Radium-226
- YAT-YGWA-4I – Radium-228
- YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-2I, YAT-YGWA-20S, YAT-YGWA-17S, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-47, YAT-YGWA-30I, YAT-YGWA-14S, YAT-YGWA-5I – Radium-226, Radium-228, and total Radium

## **8. System Performance and Overall Assessment**

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

## Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
<b>Miscellaneous Instrumentation</b>					
<b>Tier II Validation</b>					
Holding Times		X		X	
Activity, +/- uncertainty, MDC/MDA		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks	X				X
Carrier (Surrogate) %R		X		X	
Tracer (Surrogate) %R		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Laboratory Control Sample Duplicate (LCSD) %R		X		X	
LCS/LCSD Precision (RPD)		X		X	
Matrix Spike (MS) %R	X				X
Matrix Spike Duplicate (MSD) %R	X				X
MS/MSD Precision (RPD)	X				X
Laboratory Duplicate (RPD)	X				X
Field Duplicate (RPD)	X				X

**Notes:**

%R     Percent recovery

RPD     Relative percent difference

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE: 

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DATE: April 24, 2023

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PEER REVIEW: Joseph C. Houser

DATE: May 8, 2023

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## **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.

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	Page: <u>1</u> Of <u>1</u>
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	Regulatory Agency
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	
Email To: laucoker@southernco.com	Task No: YAT-CCR-ASSMT-202351	Address:	State / Location
Phone: 470.620.6176 Fax	Purchase Order #:	Pace Quote:	
Requested Due Date: <u>Std TAT</u>	Project Name: Plant Yates Pooled Upgradient	Pace Project Manager: <u>Nicole Pineda (Comie King)</u>	Georgia
	Project Number:	Pace Profile #: 10840	

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique</small>	MATRIX <small>Driving Water Water Waste Water Product Solid/Solid Oil Wipe Air Other Tissue</small>	CODE <small>DW WT WW P SL OL WP AR OT TS</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							ANALYSIS TEST <small>App III/IV Metals + Ca, Na, K Cl, F, SO4 TDS (2540C) RAD 931599320 Alkalinity (SM2320B) App I/II (ppysum only)</small>	Residual Chlorine (Y/N)						
						START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other					
						DATE	TIME	DATE	TIME																	
1	YAT-YGWA-47	WG	G							6	3	3													pH:	
2	YAT-GWA-2	WG	G							6	3	3														pH:
3	YAT-YGWA-4I	WG	G							6	3	3														pH:
4	YAT-YGWA-5I	WG	G							6	3	3														pH:
5	YAT-YGWA-5D	WG	G							6	3	3														pH: <u>6.64</u> <u>005</u>
6	YAT-YGWA-17S	WG	G							6	3	3														pH:
7	YAT-YGWA-18S	WG	G							6	3	3														pH:
8	YAT-YGWA-18I	WG	G							6	3	3														pH:
9	YAT-YGWA-20S	WG	G							6	3	3														pH: <u>5.63</u> <u>006</u>
10	YAT-YGWA-21I	WG	G							6	3	3														pH: <u>6.82</u> <u>007</u>
11	YAT-YGWA-30I	WG	G							6	3	3														pH:
12	YAT-YGWA-14S	WG	G							6	3	3														pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Alions Suite 300.0 (Cl, F, Sulfate)	<u>Kim Lapstunsky</u> / Arcadis	<u>2/8/23</u>	<u>0800</u>	<u>Muller</u>	<u>2/8/23</u>	<u>0800</u>	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<u>Kim Lapstunsky</u>	<u>2/8/23</u>	<u>0900</u>	<u>Ryan Williams</u> / Pac	<u>2/8/23</u>	<u>0906</u>	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	<u>Ryan Williams</u> / Pac	<u>2/8/23</u>	<u>1240</u>				

<b>SAMPLER NAME AND SIGNATURE</b>		TEMP in C	Received on bag (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: <u>Kim Lapstunsky</u>						
SIGNATURE of SAMPLER: <u>Kim</u>						



### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

<b>Section A</b> Required Client Information:	<b>Section B</b> Required Project Information:	<b>Section C</b> Invoice Information:	
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.	
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:	
	Task No: YAT-CCR-ASSMT-202351	Address:	
Email To: laucoker@southernco.com	Purchase Order #:	Pace Quote:	Regulatory Agency:
Phone: 470.620.6176 Fax	Project Name: Plant Yates Pooled Upgradient	Pace Project Manager: Nicole D'Onofrio <i>Bonnie Vana</i>	State / Location:
Requested Due Date: <i>Std TAT</i>	Project Number:	Pace Profile #: 10840	Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX CODE (see listed codes to left)	CODE	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSES TEST Y/N	Residual Chlorine (Y/N)							
					START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other						
					DATE	TIME	DATE	TIME																		
1	YAT-YGWA-47	WG	G						6	3								X	X	X	X	X	X			
2	YAT-GWA-2	WG	G						6	3								X	X	X	X	X	X	X		pH:
3	YAT-YGWA-41	WG	G						6	3								X	X	X	X	X	X	X		pH:
4	YAT-YGWA-51	WG	G						6	3								X	X	X	X	X	X	X		pH:
5	YAT-YGWA-5D	WG	G						6	3								X	X	X	X	X	X	X		pH:
6	YAT-YGWA-17S	WG	G						6	3								X	X	X	X	X	X	X		pH:
7	YAT-YGWA-18S	WG	G						6	3								X	X	X	X	X	X	X		pH: 5.47 006
8	YAT-YGWA-18I	WG	G						6	3								X	X	X	X	X	X	X		pH: 5.03 009
9	YAT-YGWA-20S	WG	G						6	3								X	X	X	X	X	X	X		pH: 6.00 010
10	YAT-YGWA-21I	WG	G						6	3								X	X	X	X	X	X	X		pH:
11	YAT-YGWA-30I	WG	G						6	3								X	X	X	X	X	X	X		pH:
12	YAT-YGWA-14S	WG	G						6	3								X	X	X	X	X	X	X		pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Jessica Ware / Arcadis</i>	2/8/23	0800	<i>William Ryan / Pace</i>	2/13/23	0600	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>William Ryan / Pace</i>	2/13/23	0900	<i>Ryan William / Pace</i>	2/19/23	0900	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	<i>Ryan William / Pace</i>	2/8/23	1240				

<b>SAMPLER NAME AND SIGNATURE</b>		TEMP in C	Received on Ice (Y/N)	Custody Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Jessica Ware - Arcadis</i>						
SIGNATURE of SAMPLER: <i>Jessica Ware (Arcadis)</i>	DATE Signed: <i>2/8/23</i>					

## CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 2 of 2

**Section A**

**Required Client Information:**  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: laucoker@southernco.com  
 Phone: 470.620.6176 Fax  
 Requested Due Date:

**Section B**

**Required Project Information:**  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Task No: YAT-CCR-ASSMT-202391  
 Purchase Order #:  
 Project Name: Plant Yates Pooled Upgradent  
 Project Number:

**Section C**

**Invoice Information:**  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: Nicole D'Oleo  
 Pace Profile #: 10840

Regulatory Agency  
 State / Location  
 Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 /, -) Sample ids must be unique	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Y/N	Analysis Test	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)							
				START		END				Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other	App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 93159320	Alkalinity (SM4230B)	App I/II (ppbysum only)
				DATE	TIME	DATE	TIME																				
1	YAT-YGWA-39	WG	G	2/7	1615	--	--	6	3		3							X	X	X	X	X				pH: 5.49 ovl	
2	YAT-YGWA-40	WG	G					6	3		3								X	X	X	X	X				pH:
3	YAT-YGWA-11	WG	G					6	3		3								X	X	X	X	X				pH:
4	YAT-YGWA-1D	WG	G					6	3		3								X	X	X	X	X				pH:
5	YAT-YGWA-21	WG	G					6	3		3								X	X	X	X	X				pH:
6	YAT-YGWA-3I	WG	G					6	3		3								X	X	X	X	X				pH:
7	YAT-YGWA-3D	WG	G					6	3		3								X	X	X	X	X				pH:
8																											pH:
9																											pH:
10																											pH:
11																											pH:
12																											pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS							
Anions Suite 300.0 (Cl, F, Sulfate)	<i>Jessica Ware</i> / Arcadis		2/8/23	0800	<i>William Ryan</i> / Pac		2/8/23	0800												
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>Jessica Ware</i> / Arcadis		2/8/23	0900	<i>William Ryan</i> / Pac		2/8/23	0900												
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	<i>Jessica Ware</i> / Arcadis		2/8/23	1240	<i>William Ryan</i> / Pac		2/8/23	1240												

SAMPLER NAME AND SIGNATURE		TEMP In C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) <i>Jessica Ware</i>				
SIGNATURE of SAMPLER:	(Arcadis) <i>Jessica Ware</i>				
		DATE Signed: <i>2/8/23</i>			



### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company: GA Power	Report To: SCS Contacts	Attention: Southern Co.			
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name:			
Email To: laucoker@southernco.com	Task No: YAT-CCR-ASSMT-202381	Address:			
Phone: 470.620.6176 Fax	Purchase Order #:	Pace Quote:			
Requested Due Date: <u>SD TAT</u>	Project Name: Plant Yates Pooled Upgradient	Pace Project Manager: Nicole D'Oleo			
	Project Number:	Pace Profile #: 10840			

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample IDs must be unique	MATRIX CODE (see well codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYSES TEST Y/N	App III/IV Metals - Ca, Na, K Cl, F, SO4 TDS (2540C) RAD 9315/6320 Alkalinity (SM2320B) App I / II (gypsum only)	Residual Chlorine (Y/N)	pH:								
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other							
				DATE	TIME	DATE	TIME																					
1	YAT-YGWA-47	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X				
2	YAT-GWA-2	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			
3	YAT-YGWA-4I	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			
4	YAT-YGWA-5I	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			
5	YAT-YGWA-5D	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			
6	YAT-YGWA-17S	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			
7	YAT-YGWA-18S	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			
8	YAT-YGWA-18I	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			
9	YAT-YGWA-20S	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			
10	YAT-YGWA-21I	WG	G	-	-	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			
11	YAT-YGWA-30I	WG	G	2/8	1510	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			pH: 6.43 013
12	YAT-YGWA-14S	WG	G	2/8	1350	-	-	6	3	3						X	X	X	X	X	X	X	X	X	X			pH: 5.39 014

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	<i>[Signature]</i> / Arcadis	2/9/23	830	<i>[Signature]</i> / AUS	2/9/23	0830	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	<i>[Signature]</i> / AUS	2/9/23	920	<i>[Signature]</i> / Pace	2/9/23	0920	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	<i>[Signature]</i> / Pace	2/9/23	1235	<i>[Signature]</i> / Pace	2/9/23	1235	

<b>SAMPLER NAME AND SIGNATURE</b>		TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Jake Swanson</i>					
SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed: <i>2/9/23</i>					

## CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 2 of 2

<b>Section A</b> Required Client Information: Company: GA Power Address: Atlanta, GA Email To: laucoker@southernco.com Phone: 470.620.6176 [Fax] Requested Due Date: <u>3/10/23</u>	<b>Section B</b> Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Task No: YAT-CCR-ASSMT-2023S1 Purchase Order #: Project Name: Plant Yates Pooled Upgradient Project Number:	<b>Section C</b> Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quote: Pace Project Manager: Nicole D'Oleo Pace Profile #: 10840
---	---	---

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / . - ) Sample ids must be unique</small>	MATRIX <small>Drinking Water Water Waste Water Product Soil/Solid Oil Wine Air Other Tissue</small>	CODE <small>OW WT WW P SL OL WP AR OT TS</small>	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMPF)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Residual Chlorine (Y/N)							
						START DATE	START TIME			END DATE	END TIME	Unpreserved	H2SO4	HNO3	HCl			NaOH	Na2S2O3	Methanol	Other	App III/IV Metals - Ca, Na, K	Cl, F, SO4	TDS (2540C)
1	YAT-YGWA-39	WG	G						6	3		3					X	X	X	X	X	X		
2	YAT-YGWA-40	WG	G						6	3		3					X	X	X	X	X	X		pH:
3	YAT-YGWA-1I	WG	G						6	3		3					X	X	X	X	X	X		pH:
4	YAT-YGWA-1D	WG	G						6	3		3					X	X	X	X	X	X		pH:
5	YAT-YGWA-2I	WG	G						6	3		3					X	X	X	X	X	X		pH:
6	YAT-YGWA-3I	WG	G						6	3		3					X	X	X	X	X	X		pH: 7.73 OFF
7	YAT-YGWA-3D	WG	G						6	3		3					X	X	X	X	X	X		pH: 7.88 ALU

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	JR	(Arcadis)	2/14/23	B2-	2/14/23	0830	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	JK	(Arcadis)	2/9/23	ORV	2/9/23	0910	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate	Ryan William / Pace	(Pace)	2/9/23	1235	2/9/23	1235	

<b>SAMPLER NAME AND SIGNATURE</b> PRINT Name of SAMPLER: (Arcadis) - Jake Swanson SIGNATURE of SAMPLER: (Arcadis) - <i>Jake Swanson</i> DATE Signed: 2/14/23			TEMP in C Received on ice (Y/N) Sealed (Y/N) Cooled (Y/N) Samples intact (Y/N)
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### CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: GA Power		Report To: SCS Contacts		Attention: Southern Co.	
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name:	
Email To: laucoker@southernco.com		Task No: YAT-CCR-ASSMT-202351		Address:	
Phone: 470.620.6176 Fax		Purchase Order #:		Quote #:	
Requested Due Date: 8/21/23		Project Name: Plant Yates Pooled Upgradient		Price Project Manager: Nicole DiGle	
		Project Number:		Price Profile #: 10840	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . -) Sample ids must be unique	MATRIX Drinking Water: DW Water: WT Waste Water: VW Product: P Soft/Solid: SL Oil: OL Wine: WP Air: AR Other: OT Tissue: TS	CODE DW WT VW P SL OL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (E=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Y/N	Requested Analytes Filtered (Y/N)	Residual Chlorine (Y/N)					
						START DATE	START TIME	END DATE	END TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				App III/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAO (3158320)	Alkalinity (SM2320B)
1	YAT-YGWA-47	WG	G			-	-			6	3	3							X	X	X	X	X				pH:
2	YAT-GWA-2	WG	G							6	3	3							X	X	X	X	X	X			pH:
3	YAT-YGWA-41	WG	G			2/10/23	0956			6	3	3							X	X	X	X	X				pH: 6.23 018
4	YAT-YGWA-51	WG	G			2/10/23	1126			6	3	3							X	X	X	X	X				pH: 5.90 119
6	YAT-YGWA-5D	WG	G							6	3	3							X	X	X	X	X				pH:
8	YAT-YGWA-17S	WG	G							6	3	3							X	X	X	X	X				pH:
7	YAT-YGWA-18S	WG	G							6	3	3							X	X	X	X	X				pH:
9	YAT-YGWA-18I	WG	G							6	3	3							X	X	X	X	X				pH:
9	YAT-YGWA-20S	WG	G							6	3	3							X	X	X	X	X				pH:
10	YAT-YGWA-21I	WG	G							6	3	3							X	X	X	X	X				pH:
11	YAT-YGWA-30I	WG	G							6	3	3							X	X	X	X	X				pH:
12	YAT-YGWA-14S	WG	G							6	3	3							X	X	X	X	X				pH:

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Kim Lapszynski / Arcadis	2/10/23	1700	Robert Johnson / Arcadis	2/10/23	1200	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Kim Lapszynski	2/10/23	1400	Charles Frank	2/10/23	1400	

## WO#: 92651382

PM: BV Due Date: 02/22/23  
CLIENT: GA-GA Power

SAMPLER NAME AND SIGNATURE  
PRINT Name of SAMPLER: Kim Lapszynski  
SIGNATURE of SAMPLER: *Kim Lapszynski*  
DATE Signed: 2/10/23

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

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

**Abbreviations:**

pCi/L = picoCuries per liter

**Qualifiers:**

J = estimated result



April 13, 2023

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

RE: Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Dear Ms. Petty:

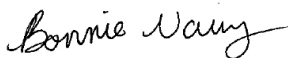
Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where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

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Lauren Coker, Georgia Pwer  
Noelia Gangi, Georgia Power  
Geoffrey Gay, ARCADIS - Atlanta  
Ben Hodges, Georgia Power-CCR  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
Kelley Sharpe, ARCADIS - Atlanta  
Alex Simpson, Arcadis  
Michael Smilley, Georgia Power  
Becky Steever, Arcadis  
Tina Sullivan, ERM

Albert Zumbuhl, Arcadis



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

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### **Pace Analytical Services Pennsylvania**

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601  
ANAB DOD-ELAP Rad Accreditation #: L2417  
Alabama Certification #: 41590  
Arizona Certification #: AZ0734  
Arkansas Certification  
California Certification #: 04222CA  
Colorado Certification #: PA01547  
Connecticut Certification #: PH-0694  
Delaware Certification  
EPA Region 4 DW Rad  
Florida/TNI Certification #: E87683  
Georgia Certification #: C040  
Florida: Cert E871149 SEKS WET  
Guam Certification  
Hawaii Certification  
Idaho Certification  
Illinois Certification  
Indiana Certification  
Iowa Certification #: 391  
Kansas/TNI Certification #: E-10358  
Kentucky Certification #: KY90133  
KY WW Permit #: KY0098221  
KY WW Permit #: KY0000221  
Louisiana DHH/TNI Certification #: LA180012  
Louisiana DEQ/TNI Certification #: 4086  
Maine Certification #: 2017020  
Maryland Certification #: 308  
Massachusetts Certification #: M-PA1457  
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235  
Montana Certification #: Cert0082  
Nebraska Certification #: NE-OS-29-14  
Nevada Certification #: PA014572018-1  
New Hampshire/TNI Certification #: 297617  
New Jersey/TNI Certification #: PA051  
New Mexico Certification #: PA01457  
New York/TNI Certification #: 10888  
North Carolina Certification #: 42706  
North Dakota Certification #: R-190  
Ohio EPA Rad Approval: #41249  
Oregon/TNI Certification #: PA200002-010  
Pennsylvania/TNI Certification #: 65-00282  
Puerto Rico Certification #: PA01457  
Rhode Island Certification #: 65-00282  
South Dakota Certification  
Tennessee Certification #: 02867  
Texas/TNI Certification #: T104704188-17-3  
Utah/TNI Certification #: PA014572017-9  
USDA Soil Permit #: P330-17-00091  
Vermont Dept. of Health: ID# VT-0282  
Virgin Island/PADEP Certification  
Virginia/VELAP Certification #: 460198  
Washington Certification #: C868  
West Virginia DEP Certification #: 143  
West Virginia DHHR Certification #: 9964C  
Wisconsin Approve List for Rad  
Wyoming Certification #: 8TMS-L

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## REPORT OF LABORATORY ANALYSIS

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## SAMPLE SUMMARY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651421001	YAT-YGWA-1I	Water	02/07/23 11:45	02/08/23 09:00
92651421002	YAT-YGWA-1D	Water	02/07/23 13:40	02/08/23 09:00
92651421003	YAT-YGWA-2I	Water	02/07/23 15:40	02/08/23 09:00
92651421004	YAT-GWA-2	Water	02/07/23 11:48	02/08/23 09:00
92651421005	YAT-YGWA-5D	Water	02/07/23 16:22	02/08/23 09:00
92651421006	YAT-YGWA-20S	Water	02/07/23 14:50	02/08/23 09:00
92651421007	YAT-YGWA-21I	Water	02/07/23 12:48	02/08/23 09:00
92651421008	YAT-YGWA-17S	Water	02/07/23 11:16	02/08/23 09:00
92651421009	YAT-YGWA-18S	Water	02/07/23 13:48	02/08/23 09:00
92651421010	YAT-YGWA-18I	Water	02/07/23 12:31	02/08/23 09:00
92651421011	YAT-YGWA-39	Water	02/07/23 16:15	02/08/23 09:00
92651421012	YAT-YGWA-47	Water	02/08/23 17:02	02/09/23 12:35
92651421013	YAT-YGWA-30I	Water	02/08/23 15:10	02/09/23 12:35
92651421014	YAT-YGWA-14S	Water	02/08/23 13:50	02/09/23 12:35
92651421015	YAT-YGWA-3I	Water	02/08/23 10:00	02/09/23 12:35
92651421016	YAT-YGWA-3D	Water	02/08/23 11:40	02/09/23 12:35
92651421017	YAT-YGWA-40	Water	02/08/23 12:02	02/09/23 12:35
92651421018	YAT-YGWA-4I	Water	02/09/23 09:55	02/10/23 14:00
92651421019	YAT-YGWA-5I	Water	02/09/23 11:26	02/10/23 14:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651421001	YAT-YGWA-1I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421002	YAT-YGWA-1D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421003	YAT-YGWA-2I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421004	YAT-GWA-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421005	YAT-YGWA-5D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421006	YAT-YGWA-20S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421007	YAT-YGWA-21I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421008	YAT-YGWA-17S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421009	YAT-YGWA-18S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421010	YAT-YGWA-18I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421011	YAT-YGWA-39	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421012	YAT-YGWA-47	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421013	YAT-YGWA-30I	EPA 9315	RMS	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92651421014	YAT-YGWA-14S	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
92651421015	YAT-YGWA-3I	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421016	YAT-YGWA-3D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92651421017	YAT-YGWA-40	EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
92651421018	YAT-YGWA-4I	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92651421019	YAT-YGWA-5I	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	SLC	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92651421001</b>	<b>YAT-YGWA-1I</b>					
EPA 9315	Radium-226	0.154 ± 0.213 (0.464) C:91% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.507 ± 0.358 (0.686) C:76% T:84%	pCi/L		02/28/23 12:41	
Total Radium Calculation	Total Radium	0.661 ± 0.571 (1.15)	pCi/L		03/02/23 15:06	
<b>92651421002</b>	<b>YAT-YGWA-1D</b>					
EPA 9315	Radium-226	0.282 ± 0.218 (0.382) C:89% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.638 ± 0.374 (0.676) C:78% T:86%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.920 ± 0.592 (1.06)	pCi/L		03/02/23 15:06	
<b>92651421003</b>	<b>YAT-YGWA-2I</b>					
EPA 9315	Radium-226	0.0443 ± 0.127 (0.314) C:93% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.492 ± 0.308 (0.559) C:81% T:89%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.536 ± 0.435 (0.873)	pCi/L		03/02/23 15:06	
<b>92651421004</b>	<b>YAT-GWA-2</b>					
EPA 9315	Radium-226	0.254 ± 0.191 (0.314) C:94% T:NA	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	0.749 ± 0.364 (0.596) C:81% T:82%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	1.00 ± 0.555 (0.910)	pCi/L		03/02/23 15:06	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92651421005</b>	<b>YAT-YGWA-5D</b>					
EPA 9315	Radium-226	2.31 ± 0.576 (0.258)	pCi/L		03/02/23 08:32	
EPA 9320	Radium-228	C:91% T:NA 1.68 ± 0.524 (0.615)	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	C:84% T:81% 3.99 ± 1.10 (0.873)	pCi/L		03/02/23 15:06	
<b>92651421006</b>	<b>YAT-YGWA-20S</b>					
EPA 9315	Radium-226	0.123 ± 0.145 (0.290)	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	C:102% T:NA 0.671 ± 0.421 (0.801)	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	C:81% T:87% 0.794 ± 0.566 (1.09)	pCi/L		03/02/23 15:06	
<b>92651421007</b>	<b>YAT-YGWA-21I</b>					
EPA 9315	Radium-226	0.457 ± 0.228 (0.252)	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	C:98% T:NA 1.07 ± 0.475 (0.795)	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	C:82% T:81% 1.53 ± 0.703 (1.05)	pCi/L		03/02/23 15:06	
<b>92651421008</b>	<b>YAT-YGWA-17S</b>					
EPA 9315	Radium-226	-0.135 ± 0.0961 (0.402)	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	C:94% T:NA 0.367 ± 0.403 (0.846)	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	C:79% T:88% 0.367 ± 0.499 (1.25)	pCi/L		03/02/23 15:06	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92651421009</b>	<b>YAT-YGWA-18S</b>					
EPA 9315	Radium-226	0.0706 ± 0.136 (0.314) C:93% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.585 ± 0.433 (0.859) C:80% T:89%	pCi/L		02/28/23 16:06	
Total Radium Calculation	Total Radium	0.656 ± 0.569 (1.17)	pCi/L		03/02/23 15:06	
<b>92651421010</b>	<b>YAT-YGWA-18I</b>					
EPA 9315	Radium-226	0.0453 ± 0.136 (0.339) C:87% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.440 ± 0.347 (0.687) C:81% T:91%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.485 ± 0.483 (1.03)	pCi/L		03/02/23 15:06	
<b>92651421011</b>	<b>YAT-YGWA-39</b>					
EPA 9315	Radium-226	0.700 ± 0.299 (0.345) C:94% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.707 ± 0.366 (0.629) C:77% T:90%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	1.41 ± 0.665 (0.974)	pCi/L		03/02/23 15:06	
<b>92651421012</b>	<b>YAT-YGWA-47</b>					
EPA 9315	Radium-226	0.146 ± 0.149 (0.267) C:88% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.229 ± 0.339 (0.731) C:71% T:84%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.375 ± 0.488 (0.998)	pCi/L		03/02/23 15:06	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92651421013</b>	<b>YAT-YGWA-30I</b>					
EPA 9315	Radium-226	-0.00593 ± 0.0878 (0.274) C:92% T:NA	pCi/L		03/02/23 08:33	
EPA 9320	Radium-228	0.417 ± 0.354 (0.703) C:73% T:89%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.417 ± 0.442 (0.977)	pCi/L		03/02/23 15:06	
<b>92651421014</b>	<b>YAT-YGWA-14S</b>					
EPA 9315	Radium-226	0.0964 ± 0.190 (0.439) C:85% T:NA	pCi/L		03/01/23 20:01	
EPA 9320	Radium-228	0.734 ± 0.414 (0.749) C:79% T:83%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	0.830 ± 0.604 (1.19)	pCi/L		03/02/23 15:06	
<b>92651421015</b>	<b>YAT-YGWA-3I</b>					
EPA 9315	Radium-226	0.402 ± 0.235 (0.311) C:93% T:NA	pCi/L		03/01/23 20:03	
EPA 9320	Radium-228	0.775 ± 0.381 (0.638) C:75% T:88%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	1.18 ± 0.616 (0.949)	pCi/L		03/02/23 15:06	
<b>92651421016</b>	<b>YAT-YGWA-3D</b>					
EPA 9315	Radium-226	1.02 ± 0.369 (0.322) C:91% T:NA	pCi/L		03/01/23 20:04	
EPA 9320	Radium-228	1.72 ± 0.524 (0.622) C:78% T:92%	pCi/L		02/28/23 16:07	
Total Radium Calculation	Total Radium	2.74 ± 0.893 (0.944)	pCi/L		03/02/23 15:06	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92651421017</b>	<b>YAT-YGWA-40</b>					
EPA 9315	Radium-226	0.450 ± 0.200 (0.230)	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	C:98% T:NA 1.11 ± 0.501 (0.817)	pCi/L		02/28/23 17:08	
Total Radium Calculation	Total Radium	C:78% T:85% 1.56 ± 0.701 (1.05)	pCi/L		03/06/23 14:37	
<b>92651421018</b>	<b>YAT-YGWA-41</b>					
EPA 9315	Radium-226	0.698 ± 0.253 (0.228)	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	C:93% T:NA 0.419 ± 0.399 (0.815)	pCi/L		02/28/23 17:09	
Total Radium Calculation	Total Radium	C:75% T:88% 1.12 ± 0.652 (1.04)	pCi/L		03/06/23 14:37	
<b>92651421019</b>	<b>YAT-YGWA-51</b>					
EPA 9315	Radium-226	0.0549 ± 0.0861 (0.185)	pCi/L		03/03/23 09:54	
EPA 9320	Radium-228	C:94% T:NA 0.0266 ± 0.380 (0.881)	pCi/L		02/28/23 17:09	
Total Radium Calculation	Total Radium	C:78% T:83% 0.0815 ± 0.466 (1.07)	pCi/L		03/06/23 14:37	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-11**      **Lab ID: 92651421001**      Collected: 02/07/23 11:45      Received: 02/08/23 09:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.154 ± 0.213 (0.464)</b> <b>C:91% T:NA</b>	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.507 ± 0.358 (0.686)</b> <b>C:76% T:84%</b>	pCi/L	02/28/23 12:41	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.661 ± 0.571 (1.15)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-1D</b> <b>Lab ID: 92651421002</b> Collected: 02/07/23 13:40      Received: 02/08/23 09:00      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.282 ± 0.218 (0.382)</b> <b>C:89% T:NA</b>	pCi/L	03/02/23 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.638 ± 0.374 (0.676)</b> <b>C:78% T:86%</b>	pCi/L	02/28/23 16:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.920 ± 0.592 (1.06)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-2I</b> <b>Lab ID: 92651421003</b> Collected: 02/07/23 15:40      Received: 02/08/23 09:00      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0443 ± 0.127 (0.314)</b> <b>C:93% T:NA</b>	pCi/L	03/02/23 08:32	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.492 ± 0.308 (0.559)</b> <b>C:81% T:89%</b>	pCi/L	02/28/23 16:06	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.536 ± 0.435 (0.873)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-GWA-2**      **Lab ID: 92651421004**      Collected: 02/07/23 11:48      Received: 02/08/23 09:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.254 ± 0.191 (0.314)</b> <b>C:94% T:NA</b>	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.749 ± 0.364 (0.596)</b> <b>C:81% T:82%</b>	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.00 ± 0.555 (0.910)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-5D**      **Lab ID: 92651421005**      Collected: 02/07/23 16:22      Received: 02/08/23 09:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>2.31 ± 0.576 (0.258)</b> <b>C:91% T:NA</b>	pCi/L	03/02/23 08:32	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.68 ± 0.524 (0.615)</b> <b>C:84% T:81%</b>	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>3.99 ± 1.10 (0.873)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-20S**      **Lab ID: 92651421006**      Collected: 02/07/23 14:50      Received: 02/08/23 09:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.123 ± 0.145 (0.290)</b> <b>C:102% T:NA</b>	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.671 ± 0.421 (0.801)</b> <b>C:81% T:87%</b>	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.794 ± 0.566 (1.09)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-211**      **Lab ID: 92651421007**      Collected: 02/07/23 12:48      Received: 02/08/23 09:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.457 ± 0.228 (0.252)</b> <b>C:98% T:NA</b>	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.07 ± 0.475 (0.795)</b> <b>C:82% T:81%</b>	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.53 ± 0.703 (1.05)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-17S**      **Lab ID: 92651421008**      Collected: 02/07/23 11:16      Received: 02/08/23 09:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.135 ± 0.0961 (0.402)</b> <b>C:94% T:NA</b>	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.367 ± 0.403 (0.846)</b> <b>C:79% T:88%</b>	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.367 ± 0.499 (1.25)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-18S**      **Lab ID: 92651421009**      Collected: 02/07/23 13:48      Received: 02/08/23 09:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0706 ± 0.136 (0.314)</b> <b>C:93% T:NA</b>	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.585 ± 0.433 (0.859)</b> <b>C:80% T:89%</b>	pCi/L	02/28/23 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.656 ± 0.569 (1.17)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-18I**      **Lab ID: 92651421010**      Collected: 02/07/23 12:31      Received: 02/08/23 09:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0453 ± 0.136 (0.339)</b> <b>C:87% T:NA</b>	pCi/L	03/02/23 08:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.440 ± 0.347 (0.687)</b> <b>C:81% T:91%</b>	pCi/L	02/28/23 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.485 ± 0.483 (1.03)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-39**      **Lab ID: 92651421011**      Collected: 02/07/23 16:15      Received: 02/08/23 09:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.700 ± 0.299 (0.345)</b> <b>C:94% T:NA</b>	pCi/L	03/02/23 08:33	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.707 ± 0.366 (0.629)</b> <b>C:77% T:90%</b>	pCi/L	02/28/23 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.41 ± 0.665 (0.974)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-47</b> <b>Lab ID: 92651421012</b> Collected: 02/08/23 17:02      Received: 02/09/23 12:35      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.146 ± 0.149 (0.267)</b> <b>C:88% T:NA</b>	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.229 ± 0.339 (0.731)</b> <b>C:71% T:84%</b>	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.375 ± 0.488 (0.998)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-301**      **Lab ID: 92651421013**      Collected: 02/08/23 15:10      Received: 02/09/23 12:35      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.00593 ± 0.0878 (0.274)</b> <b>C:92% T:NA</b>	pCi/L	03/02/23 08:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.417 ± 0.354 (0.703)</b> <b>C:73% T:89%</b>	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.417 ± 0.442 (0.977)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-14S**      **Lab ID: 92651421014**      Collected: 02/08/23 13:50      Received: 02/09/23 12:35      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0964 ± 0.190 (0.439)</b> <b>C:85% T:NA</b>	pCi/L	03/01/23 20:01	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.734 ± 0.414 (0.749)</b> <b>C:79% T:83%</b>	pCi/L	02/28/23 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.830 ± 0.604 (1.19)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-3I</b> <b>Lab ID: 92651421015</b> Collected: 02/08/23 10:00      Received: 02/09/23 12:35      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.402 ± 0.235 (0.311)</b> <b>C:93% T:NA</b>	pCi/L	03/01/23 20:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.775 ± 0.381 (0.638)</b> <b>C:75% T:88%</b>	pCi/L	02/28/23 16:07	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.18 ± 0.616 (0.949)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-3D</b> <b>Lab ID: 92651421016</b> Collected: 02/08/23 11:40      Received: 02/09/23 12:35      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>1.02 ± 0.369 (0.322)</b> <b>C:91% T:NA</b>	pCi/L	03/01/23 20:04	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.72 ± 0.524 (0.622)</b> <b>C:78% T:92%</b>	pCi/L	02/28/23 16:07	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.74 ± 0.893 (0.944)</b>	pCi/L	03/02/23 15:06	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-40</b> <b>Lab ID: 92651421017</b> Collected: 02/08/23 12:02      Received: 02/09/23 12:35      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.450 ± 0.200 (0.230)</b> <b>C:98% T:NA</b>	pCi/L	03/03/23 09:54	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>1.11 ± 0.501 (0.817)</b> <b>C:78% T:85%</b>	pCi/L	02/28/23 17:08	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.56 ± 0.701 (1.05)</b>	pCi/L	03/06/23 14:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

**Sample: YAT-YGWA-4I**      **Lab ID: 92651421018**      Collected: 02/09/23 09:55      Received: 02/10/23 14:00      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.698 ± 0.253 (0.228)</b> <b>C:93% T:NA</b>	pCi/L	03/03/23 09:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.419 ± 0.399 (0.815)</b> <b>C:75% T:88%</b>	pCi/L	02/28/23 17:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.12 ± 0.652 (1.04)</b>	pCi/L	03/06/23 14:37	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-5I</b> <b>Lab ID: 92651421019</b> Collected: 02/09/23 11:26      Received: 02/10/23 14:00      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0549 ± 0.0861 (0.185)</b> <b>C:94% T:NA</b>	pCi/L	03/03/23 09:54	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.0266 ± 0.380 (0.881)</b> <b>C:78% T:83%</b>	pCi/L	02/28/23 17:09	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.0815 ± 0.466 (1.07)</b>	pCi/L	03/06/23 14:37	7440-14-4	

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

QC Batch: 567129

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92651421017, 92651421018, 92651421019

METHOD BLANK: 2754449

Matrix: Water

Associated Lab Samples: 92651421017, 92651421018, 92651421019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.353 ± 0.207 (0.369) C:83% T:82%	pCi/L	03/03/23 11:44	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

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QC Batch:	567128	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92651421017, 92651421018, 92651421019

---

METHOD BLANK: 2754448 Matrix: Water

Associated Lab Samples: 92651421017, 92651421018, 92651421019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.113 ± 0.105 (0.185) C:106% T:NA	pCi/L	03/03/23 09:54	

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

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## QUALIFIERS

Project: Plant Yates Pooled Upgrad RADS

Pace Project No.: 92651421

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651421001	YAT-YGWA-1I	EPA 9315	567031		
92651421002	YAT-YGWA-1D	EPA 9315	567031		
92651421003	YAT-YGWA-2I	EPA 9315	567031		
92651421004	YAT-GWA-2	EPA 9315	567031		
92651421005	YAT-YGWA-5D	EPA 9315	567031		
92651421006	YAT-YGWA-20S	EPA 9315	567031		
92651421007	YAT-YGWA-21I	EPA 9315	567031		
92651421008	YAT-YGWA-17S	EPA 9315	567031		
92651421009	YAT-YGWA-18S	EPA 9315	567031		
92651421010	YAT-YGWA-18I	EPA 9315	567031		
92651421011	YAT-YGWA-39	EPA 9315	567031		
92651421012	YAT-YGWA-47	EPA 9315	567031		
92651421013	YAT-YGWA-30I	EPA 9315	567031		
92651421014	YAT-YGWA-14S	EPA 9315	567031		
92651421015	YAT-YGWA-3I	EPA 9315	567031		
92651421016	YAT-YGWA-3D	EPA 9315	567031		
92651421017	YAT-YGWA-40	EPA 9315	567128		
92651421018	YAT-YGWA-4I	EPA 9315	567128		
92651421019	YAT-YGWA-5I	EPA 9315	567128		
92651421001	YAT-YGWA-1I	EPA 9320	567032		
92651421002	YAT-YGWA-1D	EPA 9320	567032		
92651421003	YAT-YGWA-2I	EPA 9320	567032		
92651421004	YAT-GWA-2	EPA 9320	567032		
92651421005	YAT-YGWA-5D	EPA 9320	567032		
92651421006	YAT-YGWA-20S	EPA 9320	567032		
92651421007	YAT-YGWA-21I	EPA 9320	567032		
92651421008	YAT-YGWA-17S	EPA 9320	567032		
92651421009	YAT-YGWA-18S	EPA 9320	567032		
92651421010	YAT-YGWA-18I	EPA 9320	567032		
92651421011	YAT-YGWA-39	EPA 9320	567032		
92651421012	YAT-YGWA-47	EPA 9320	567032		
92651421013	YAT-YGWA-30I	EPA 9320	567032		
92651421014	YAT-YGWA-14S	EPA 9320	567032		
92651421015	YAT-YGWA-3I	EPA 9320	567032		
92651421016	YAT-YGWA-3D	EPA 9320	567032		
92651421017	YAT-YGWA-40	EPA 9320	567129		
92651421018	YAT-YGWA-4I	EPA 9320	567129		
92651421019	YAT-YGWA-5I	EPA 9320	567129		
92651421001	YAT-YGWA-1I	Total Radium Calculation	571130		
92651421002	YAT-YGWA-1D	Total Radium Calculation	571130		
92651421003	YAT-YGWA-2I	Total Radium Calculation	571130		
92651421004	YAT-GWA-2	Total Radium Calculation	571130		
92651421005	YAT-YGWA-5D	Total Radium Calculation	571130		
92651421006	YAT-YGWA-20S	Total Radium Calculation	571130		
92651421007	YAT-YGWA-21I	Total Radium Calculation	571130		
92651421008	YAT-YGWA-17S	Total Radium Calculation	571130		
92651421009	YAT-YGWA-18S	Total Radium Calculation	571130		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgrad RADS  
Pace Project No.: 92651421

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651421010	YAT-YGWA-18I	Total Radium Calculation	571130		
92651421011	YAT-YGWA-39	Total Radium Calculation	571130		
92651421012	YAT-YGWA-47	Total Radium Calculation	571130		
92651421013	YAT-YGWA-30I	Total Radium Calculation	571130		
92651421014	YAT-YGWA-14S	Total Radium Calculation	571130		
92651421015	YAT-YGWA-3I	Total Radium Calculation	571130		
92651421016	YAT-YGWA-3D	Total Radium Calculation	571130		
92651421017	YAT-YGWA-40	Total Radium Calculation	571751		
92651421018	YAT-YGWA-4I	Total Radium Calculation	571751		
92651421019	YAT-YGWA-5I	Total Radium Calculation	571751		

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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mech...

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651421



Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 [initials]

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  IR Gun ID: 214 Correction Factor: Type of Ice:  Wet  Blue  None

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 4.7 Add/Subtract (°C): +0.1

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

Cooler Temp Corrected (°C): 4.8

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_

Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_

Date: \_\_\_\_\_



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

Effective Date: 11/14/2022

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

Project #

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

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		2	1		X																									
2		2	1		X																									
3		2	1		X																									
4			1		X																									
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.

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Invoice Information:</b>	
Company: GA Power	Address: Atlanta, GA	Report To: SCS Contacts	Copy To: Arcadis Contacts	Attention: Southern Co.	Company Name: Southern Co.
Email To: laucoker@southernco.com	Phone: 470 620 6176 Fax	Task No: VAT-CCR-453MT-202391	Purchase Order #: VAT-CCR-453MT-202391	Address:	State / Location: Georgia
Requested Due Date: Standard TAT		Project Name: Plant Yates Pooled Upgradient	Project Number:	Price Project Manager: Micaela D'Onofrio	Price Profile #: 10840
				Price Profile #: 10840	Requested Analysis Filtered (Y/N)

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample IDs must be unique	MATRIX	CODE	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
1	YAT-YGWA-39	Drinking Water	OW				6										
2	YAT-YGWA-40	Waste Water	WW				6										
3	YAT-YGWA-1	Waste Water	WW				6										
4	YAT-YGWA-1D	Product	P	2/7/23	1145		6										
5	YAT-YGWA-2I	Product	P	2/7/23	1340		6										
6	YAT-YGWA-3I	Product	P	2/7/23	1540		6										
7	YAT-YGWA-3D	Product	P				6										
8							6										
9							6										
10							6										
11							6										
12							6										

<b>ADDITIONAL COMMENTS</b>		<b>RELINQUISHED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>ACCEPTED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>SAMPLE CONDITIONS</b>	
Actions Site 300.0 (Cl, F, Sulfate)		Jake Swanson		2/8/23		0800		Micaela D'Onofrio		2/8/23		0800			
App III Metals: Boron 6020B, Ca 6010D, App III 6020B, Zn, Ag, Ni, V		Ryan Williams		2/8/23		0500		Ryan Williams		2/9/23		0900			
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Vanadium (V), Zinc (Zn), Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		Ryan Williams		2/9/23		1240		Ryan Williams		2/9/23		0900			

<b>SAMPLER NAME AND SIGNATURE</b>	
PRINT Name of SAMPLER: (Arcadis)	Jake Swanson
SIGNATURE of SAMPLER: (Arcadis)	<i>Jake Swanson</i>
DATE Signed:	2/8/23

Page: 1 Of 1



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mer...

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651421

PM: BV Due Date: 03/01/23 CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  Pace  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 [Signature]

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Cooler Temp: 4.7 Correction Factor: +0.1 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 4.8

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_





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

Effective Date: 11/14/2022

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

Options: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

\*\*Check all unpreserved Nitrates for chlorine

Project #

WO#: 92651421

PM: BV

Due Date: 03/01/23

CLIENT: GA-GA Power

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)						
BP3U-250 mL Plastic Unpreserved (N/A)						
BP2U-500 mL Plastic Unpreserved (N/A)						
BP1U-1 liter Plastic Unpreserved (N/A)						
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)						
BP3N-250 mL plastic HNO3 (pH < 2)						
BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)						
BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)						
WGFU-Wide-mouthed Glass jar Unpreserved						
AG1U-1 liter Amber Unpreserved (N/A) (Cl-)						
AG1H-1 liter Amber HCl (pH < 2)						
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)						
AG1S-1 liter Amber H2SO4 (pH < 2)						
AG3S-250 mL Amber H2SO4 (pH < 2)						
DG94-40 mL Amber NH4Cl (N/A)(Cl-)						
DG9H-40 mL VOA HCl (N/A)						
VG9T-40 mL VOA Na2S2O3 (N/A)						
VG9U-40 mL VOA Unpreserved (N/A)						
DG9V-40 mL VOA H3PO4 (N/A)						
KP7U-50 mL Plastic Unpreserved (N/A)						
V/GK (3 vials per kit)-VPH/Gas kit (N/A)						
SP5T-125 mL Sterile Plastic (N/A - lab)						
SP2T-250 mL Sterile Plastic (N/A - lab)						
BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)						
AG8U-100 mL Amber Unpreserved (N/A) (Cl-)						
VSCU-20 mL Scintillation vials (N/A)						
DG9U-40 mL Amber Unpreserved vials (N/A)						

pH Adjustment Log for Preserved Samples

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

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

**Required Client Information:**  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: jlucocker@southernco.com  
 Phone: 470.620.6176  
 Requested Due Date: 5/24/23

**Section B**

**Required Project Information:**  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Task No: VAT-CGR-ASSMT-202351  
 Project Name: Plant Valves Pooled Upgradation  
 Project Number:

**Section C**

**Invoice Information:**  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 Price Quote:  
 Price Project Manager: Nicole D'Agostino  
 Price Profile #: 10840

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, /, -) Sample ids must be unique</small>	MATRIX	CODE	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
1	YAT-YGWA-47	Water	WG G				6	3	3	3							
2	YAT-YGWA-2	Water	WG G				6	3	3	3							
3	YAT-YGWA-41	Water	WG G	5/21/23	11:48		6	3	3	3							
4	YAT-YGWA-51	Water	WG G				6	3	3	3							
5	YAT-YGWA-5D	Water	WG G				6	3	3	3							
6	YAT-YGWA-17S	Water	WG G				6	3	3	3							
7	YAT-YGWA-18S	Water	WG G				6	3	3	3							
8	YAT-YGWA-18I	Water	WG G				6	3	3	3							
9	YAT-YGWA-20S	Water	WG G				6	3	3	3							
10	YAT-YGWA-21I	Water	WG G				6	3	3	3							
11	YAT-YGWA-30I	Water	WG G				6	3	3	3							
12	YAT-YGWA-14S	Water	WG G				6	3	3	3							

**RELEASING BY / AFFILIATION:** Mark Chest - Arcadis **DATE:** 2/8/23

**ACCEPTED BY / AFFILIATION:** Ryan Williams / PwC **DATE:** 2/9/23

**DATE SIGNED:** 2/8/23

**TEMP in C:**

**Received on Ice (Y/N):**

**Custody Sealed Cooler (Y/N):**

**Samples Intact (Y/N):**



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92651421

PM: BV

Due Date: 03/01/23

CLIENT: GA-GA Power

Courier:  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 CW

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

IR Gun ID: 214

Type of Ice:  Wet  Blue  None

Cooler Temp: 4.7

Correction Factor: Add/Subtract (°C)

+0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.8

USDA Regulated Soil (  N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<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 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:	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:



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

Effective Date: 11/14/2022

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

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

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

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

Project #

WO#: 92651421

PM: BV

Due Date: 03/01/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3W-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP7T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGOU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1		2																										
2		2	1																									
3		2	1																									
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12																												

pH Adjustment Log for Preserved Samples

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

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 1

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
Email To:	laucoker@southemco.com	Task No.:	YAT-CGR-ASSMT-202351	Address:	
Phone:	470.620.6176	Purchase Order #:		Page Quote:	
Requested Due Date:	STC TAT	Project Name:	Plant Yates Pooled Upgradient	Page Project Manager:	Heather Brown, Ryan & Kay
		Project Number:		Page Profile #:	10840
				Regulatory Agency:	DEPA / Livingston Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, -) Sample IDs must be unique	MATRIX Drawing Water Waste Water Product Soil/Sediment Other Tissue	CODE DW WW P SL OK WP AK OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analyses Test	Residual Chlorine (Y/N)	pH		
				START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol	Other
1	YAT-YGWA-47			WG	G		6	3	3	3								
2	YAT-GWA-2			WG	G		6	3	3	3								
3	YAT-YGWA-41			WG	G		6	3	3	3								
4	YAT-YGWA-51			WG	G		6	3	3	3								
5	YAT-YGWA-5D			WG	G		6	3	3	3								
6	YAT-YGWA-17S			WG	G		6	3	3	3								
7	YAT-YGWA-18S			WG	G		6	3	3	3								
8	YAT-YGWA-18I			WG	G		6	3	3	3								
9	YAT-YGWA-20S			WG	G		6	3	3	3								
10	YAT-YGWA-21I			WG	G		6	3	3	3								
11	YAT-YGWA-30I			WG	G		6	3	3	3								
12	YAT-YGWA-14S			WG	G		6	3	3	3								

<b>ADDITIONAL COMMENTS</b>		<b>RELINQUISHED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>ACCEPTED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>SAMPLE CONDITIONS</b>	
Athens Suite 300.0 (Cl, F, Sulfate)		Ryan Williams / PCA		2/8/23		0800		Ryan Williams / PCA		2/8/23		0800		pH: 6.82	
App III Metals: Boron 6020B, Ca 6010D, App III 6020B, Zn, Ag, H, V		Ryan Williams / PCA		2/8/23		0800		Ryan Williams / PCA		2/8/23		0800		pH: 5.03	
App IV Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Toluene, Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate and bicarbonate		Ryan Williams / PCA		2/8/23		1240		Ryan Williams / PCA		2/8/23		0906		pH: 6.82	

<b>SAMPLER NAME AND SIGNATURE</b>		<b>DATE SIGNED</b>	
PRINT Name of SAMPLER: Ryan Williams		2/8/23	
SIGNATURE of SAMPLER: Ryan Williams		2/8/23	



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier:  Fed Ex  UPS  USPS  Client  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 [Signature]

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 214

Type of Ice:  Wet  Blue  None

Cooler Temp: 4.7

Correction Factor: Add/Subtract (°C) 10.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 4.8

USDA Regulated Soil (  N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<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 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: 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:



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

Effective Date: 11/14/2022

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

Project #

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

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U 50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	V5GU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2	1																										
2		2	1																										
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pH Adjustment Log for Preserved Samples

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

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





# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b>		<b>Required Client Information:</b>		<b>Section B</b>		<b>Required Project Information:</b>		<b>Section C</b>		<b>Invoice Information:</b>	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.	Company Name:	Southern Co.	Address:		Company Name:	Southern Co.
Address:	Allanta, GA	Copy To:	Arcadis Contacts	Address:		Company Name:	Southern Co.	Address:		Company Name:	Southern Co.
Email To:	jaucoker@southernco.com	Task No:	YAT-CCR-ASSMT-202351	Address:		Company Name:	Southern Co.	Address:		Company Name:	Southern Co.
Phone:	470.620.6176	Purchase Order #:		Address:		Company Name:	Southern Co.	Address:		Company Name:	Southern Co.
Requested Due Date:		Project Name:	Plant Yales Pooled Upgradient	Address:		Company Name:	Southern Co.	Address:		Company Name:	Southern Co.
		Project Number:		Address:		Company Name:	Southern Co.	Address:		Company Name:	Southern Co.

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample ids must be unique	MATRIX	CODE	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analytes Test	App I/IV Metals + Ca, Na, K	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	Alkalinity (SM2320B)	App I / B (gypsum only)	Residual Chlorine (Y/N)	pH:	
																											COLLECTED
1	YAT-YGWA-39	Drinking Water	OW	2/17	16:15				6	3	3	3							X	X	X	X	X				pH: 5.49
2	YAT-YGWA-40	Waste Water	WW						6	3	3	3							X	X	X	X	X				
3	YAT-YGWA-11	Waste Water	WW						6	3	3	3							X	X	X	X	X				
4	YAT-YGWA-1D	Product	P						6	3	3	3							X	X	X	X	X				
5	YAT-YGWA-21	Product	P						6	3	3	3							X	X	X	X	X				
6	YAT-YGWA-31	Product	P						6	3	3	3							X	X	X	X	X				
7	YAT-YGWA-3D	Product	P						6	3	3	3							X	X	X	X	X				
8																											
9																											
10																											
11																											
12																											

<b>ADDITIONAL COMMENTS</b>		<b>RELINQUISHED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>ACCEPTED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>SAMPLE CONDITIONS</b>	
Anton Suite 300.0 (Cl, F, Sulfate)		Lynne Williams / Arcadis		2/8/23		0800		Lynne Williams / Arcadis		2/8/23		0800		Temp in C	
App III Metals: Boron 6020B, Ca 6010D, App VI 6020B, Zn, Ag, Ni, V		Lynne Williams / Arcadis		2/8/23		0500		Lynne Williams / Arcadis		2/9/23		0900		Received on ice (Y/N)	
App IV: Metals 6020B: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Lithium (Li), Molybdenum (Mo), Selenium (Se), 7040A: Mercury (Hg). Also add Ca, Na, K for this event. Alkalinity - report total, carbonate, and bicarbonate		Lynne Williams / Arcadis		2/8/23		1240		Lynne Williams / Arcadis		2/8/23		0900		Custody Sealed Cooler (Y/N)	
		Lynne Williams / Arcadis		2/8/23				Lynne Williams / Arcadis		2/8/23				Samples Intact (Y/N)	
<b>SAMPLER NAME AND SIGNATURE</b>		<b>PRINT Name of SAMPLER:</b>		<b>SIGNATURE of SAMPLER:</b>		<b>DATE Signed:</b>		<b>TEMP in C</b>		<b>Received on ice (Y/N)</b>		<b>Custody Sealed Cooler (Y/N)</b>		<b>Samples Intact (Y/N)</b>	
Lynne Williams		Lynne Williams		Lynne Williams		2/8/23									



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

Effective Date: 11/14/2022

Laboratory receiving samples:

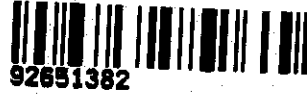
Asheville  Eden  Greenwood  Huntersville  Raleigh  Me

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651382



Courier:  Commercial  Pace  Fed Ex  UPS  USPS  Other:  Client

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 CS

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Cooler Temp: 4.7 Correction Factor: 0.1 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 4.8

USDA Regulated Soil (  N/A, water sample)

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



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

Effective Date: 11/14/2022

\*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, U.Hg

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

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

Project #

W0#: 92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG8U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1			X																								
2	2	1			X																								
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pH Adjustment Log for Preserved Samples

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

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



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92651382

Courier:  Fed Ex  UPS  USPS  Client  Pace  Other:

PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) 0.1

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

Cooler Temp Corrected (°C): 4.8

USDA Regulated Soil (  N/A, water sample)

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

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



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

Effective Date: 11/14/2022

WO#: 92651382

Project #

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

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

Options: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

\*Check all unpreserved Nitrates for chlorine

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)						
BP3U-250 mL Plastic Unpreserved (N/A)						
BP2U-500 mL Plastic Unpreserved (N/A)						
BP1U-1 liter Plastic Unpreserved (N/A)						
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)						
BP3N-250 mL plastic HNO3 (pH < 2)						
BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)						
BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)						
WGFLU-Wide-mouthed Glass Jar Unpreserved						
AG1LU-1 liter Amber Unpreserved (N/A) (Cl-)						
AG1H-1 liter Amber HCl (pH < 2)						
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)						
AG1S-1 liter Amber H2SO4 (pH < 2)						
AG3S-250 mL Amber H2SO4 (pH < 2)						
DG94-40 mL Amber NH4Cl (N/A)(Cl-)						
DG9H-40 mL VOA HCl (N/A)						
VG9T-40 mL VOA Na2S2O3 (N/A)						
VG9U-40 mL VOA Unpreserved (N/A)						
DG9V-40 mL VOA H3PO4 (N/A)						
KP7U-50 mL Plastic Unpreserved (N/A)						
V/GK (3 vials per kit)-VPH/Gas kit (N/A)						
SP5T-125 mL Sterile Plastic (N/A - lab)						
SP2T-250 mL Sterile Plastic (N/A - lab)						
BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)						
AGNU-100 mL Amber Unpreserved (N/A) (Cl-)						
VSGU-20 mL Scintillation vials (N/A)						
DG9U-40 mL Amber Unpreserved vials (N/A)						

pH Adjustment Log for Preserved Samples

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

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



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92651382

Courier:  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 CW

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.8

USDA Regulated Soil (  N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<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 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/>		
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: \_\_\_\_\_



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

Effective Date: 11/14/2022

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

Project #

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

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGPU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1		2																											
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Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



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

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

Project # field

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 [initials]

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID:

214

Type of Ice:

Wet  Blue  None

Cooler Temp:

4.7

Correction Factor:

Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

4.8

USDA Regulated Soil (  N/A, water sample)

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

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

		Comments/Discrepancy:
Chain of Custody Present?	<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 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:





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

Effective Date: 11/14/2022

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

Project #

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

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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**pH Adjustment Log for Preserved Samples**

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

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



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

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mer

WO#: 92651382

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  UPS  USPS  Other:  Client  Pace

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:

IR Gun ID: 214

Type of Ice:  Wet  Blue  None

Cooler Temp:

2.1

Correction Factor: Add/Subtract (°C)

+0.1

Cooler Temp Corrected (°C):

2.2

USDA Regulated Soil (  N/A, water sample)

Temp should be above freezing to 6°C

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

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

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

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



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

Effective Date: 11/14/2022

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

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

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

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

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A)(Cl-)	V56U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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pH Adjustment Log for Preserved Samples

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

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



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

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92651382

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

PM: BV Due Date: 02/22/23  
CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/9/23  
CB

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 214

Type of Ice:  Wet  Blue  None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (  N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<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:	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 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: \_\_\_\_\_



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

Effective Date: 11/14/2022

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

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

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

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

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPST-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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pH Adjustment Log for Preserved Samples

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

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



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

*G.A. Power*

Project #:

WO#: 92651382

Courier:  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

PM: BV Due Date: 02/22/23  
CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *2/9/23*  
*CB*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: *214*

Type of Ice:  Wet  Blue  None

Cooler Temp: *2.1*

Correction Factor:

Add/Subtract (°C) *+0.1*

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): *2.2*

USDA Regulated Soil (  N/A, water sample)

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

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

		Comments/Discrepancy:
Chain of Custody Present?	<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 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: \_\_\_\_\_



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

Effective Date: 11/14/2022

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

Project #

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

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VG6U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
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pH Adjustment Log for Preserved Samples

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

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









# CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

<b>Section A</b>		<b>Requested Client Information:</b>	
Company:	GA Power	Report To:	SCS Contacts
Address:	Atlanta, GA	Copy To:	Arcadis Contacts
Email To:	lausoker@southernco.com	Task No.:	VAT-CR-ASSMT-20251
Phone:	470 620 6176	Purchase Order #:	
Fax:		Plant Name:	Plant Vales Pooled Upgradient
Requested Due Date:	5/11/11	Project Number:	
<b>Section B</b>		<b>Requested Project Information:</b>	
Invoicing Information:		Company Name:	Southern Co.
Address:		Plant Name:	
Plant Name:		Plant Address:	
Plant Project Manager:	Nicole Dore-Ryan	Plant Project #:	10840
Plant Project #:	10840	Plant Project #:	10840

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, / -) Samples must be unique	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)	
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol
1	VAT-YGWA-47	WIG G	G				6	3	3	3							
2	VAT-YGWA-2	WIG G	G				6	3	3	3							
3	VAT-YGWA-41	WIG G	G				6	3	3	3							
4	VAT-YGWA-SI	WIG G	G				6	3	3	3							
5	VAT-YGWA-5D	WIG G	G				6	3	3	3							
6	VAT-YGWA-17S	WIG G	G	2/17	11/6		6	3	3	3							
7	VAT-YGWA-18S	WIG G	G	2/17	13/8		6	3	3	3							
8	VAT-YGWA-181	WIG G	G	2/17	12/31		6	3	3	3							
9	VAT-YGWA-20S	WIG G	G				6	3	3	3							
10	VAT-YGWA-211	WIG G	G				6	3	3	3							
11	VAT-YGWA-301	WIG G	G				6	3	3	3							
12	VAT-YGWA-14S	WIG G	G				6	3	3	3							

<b>ADDITIONAL COMMENTS</b>		<b>RELINQUISHED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>ACCEPTED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>	
Anions Sulf 3000 (Cl, F, Sulfate)		Jessica More		2/18/23		0800		Ryan Williams		2/18/23		0900	
App III Metals: Boron 6020B; Ca 6010D;		Ryan Williams		2/18/23		1240		Ryan Williams		2/18/23		0900	
App IV: Metals 6020B; Arsenic (Sb); Arsenic (As); Barium (Ba);													
Cadmium (Cd); Chromium (Cr); Cobalt (Co); Lead (Pb);													
Lithium (Li); Molybdenum (Mo); Selenium (Se)													
7040A; Mercury (Hg). Also add Ca, Mg, K for this event.													
Alkalinity - report total, carbonate, and bicarbonate													

<b>SAMPLER NAME AND SIGNATURE</b>		<b>PRINT NAME OF SAMPLER:</b> Jessica More - Arcadis		<b>DATE SIGNATURE:</b> 2/18/23	
<b>SIGNATURE OF SAMPLER:</b> <i>Jessica More</i>					





# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
 Required Client Information:  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: luccoker@scsllharco.com  
 Phone: 470.620.6176  
 Requested Date: 8/07/23

**Section B**  
 Required Project Information:  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Task No.: YAT-CGR-ASSM-202381  
 Purchase Order #: Plant Yates Pooled Upgrade  
 Project Name:  
 Project Number:

**Section C**  
 Invoice Information:  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 Page Order:  
 Page Project Manager: Nicole D'Olivo  
 Page Profile #: 10840

Page: 1 of 2

ITEM #	MATRIX Drinking Water Industrial Water Wastewater Other As Collected Other	CODE DW IW WW Other As Collected Other	COLLECTED		DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analytes Test	Y/N		
			START DATE	END DATE					Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			Methanol	Other
1	YAT-YGWA-47	WG	2/19/23	1510	830													
2	YAT-YGWA-2	WG	2/19/23	1510	830													
3	YAT-YGWA-4I	WG	2/19/23	1510	920													
4	YAT-YGWA-6I	WG	2/19/23	1510	1235													
5	YAT-YGWA-6D	WG	2/19/23	1510	1235													
6	YAT-YGWA-17S	WG	2/19/23	1510	1235													
7	YAT-YGWA-18S	WG	2/19/23	1510	1235													
8	YAT-YGWA-18I	WG	2/19/23	1510	1235													
9	YAT-YGWA-20S	WG	2/19/23	1510	1235													
10	YAT-YGWA-21I	WG	2/19/23	1510	1235													
11	YAT-YGWA-30I	WG	2/19/23	1510	1235													
12	YAT-YGWA-14S	WG	2/19/23	1510	1235													

ADDITIONAL COMMENTS					REDQUISHED BY /AMPLATION					ACCEPTED BY/AMPLATION					SAMPLE CONDITION			
APPROVED	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
			2/19/23	830	2/19/23	1510	830	2/19/23	1510	830	2/19/23	1510	830	2/19/23	830			
			2/19/23	920	2/19/23	1510	920	2/19/23	1510	920	2/19/23	1510	920	2/19/23	920			
			2/19/23	1235	2/19/23	1510	1235	2/19/23	1510	1235	2/19/23	1510	1235	2/19/23	1235			
			2/19/23	1235	2/19/23	1510	1235	2/19/23	1510	1235	2/19/23	1510	1235	2/19/23	1235			

APPROVED	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME
	2/19/23	1510	2/19/23	1510	2/19/23	1510	2/19/23	1510	2/19/23	1510	2/19/23	1510

PRINT Name of SAMPLER: Jake Swanson  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed: 2/19/23









# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-226  
 Analyst: RMS  
 Date: 2/23/2023  
 Worklist: 71466  
 Matrix: WT

Method Blank Assessment	
MB Sample ID	2753389
MB concentration:	0.032
MB 2 Sigma CSU:	0.106
MB MDC:	0.272
MB Numerical Performance Indicator:	0.58
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS71466	LCS071466
Count Date:	3/17/2023	3/17/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.501	0.500
Target Conc. (pCi/L, g, F):	4.795	4.807
Uncertainty (Calculated):	0.058	0.058
Result (pCi/L, g, F):	4.037	3.903
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	-1.71	0.847
Numerical Performance Indicator:	84.20%	81.19%
Percent Recovery:	Pass	Warning
Status vs Numerical Indicator:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS (Y or N)?	
	LCS71466	LCS071466
Sample I.D.:	92650189021	92650189021
Duplicate Sample I.D.:	92650189021	92650189021
Sample Result (pCi/L, g, F):	4.037	0.272
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.868	0.190
Sample Duplicate Result (pCi/L, g, F):	3.903	0.161
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.847	0.314
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.217	0.592
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.64%	51.29%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

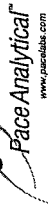
Matrix Spike/Matrix Spike Duplicate Sample Assessment	MS/MSD	
	MS/MSD 1	MS/MSD 2
Sample I.D.:		
Sample MS I.D.:		
Sample MSD I.D.:		
Sample Matrix Spike Result:		
Matrix Spike Result 2 Sigma CSU (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, 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:

*On 3/20/23*

# Quality Control Sample Performance Assessment



**Analyst Must Manually Enter All Fields Highlighted in Yellow.**

Test: Ra-228  
Analyst: JJS1  
Date: 2/24/2023  
Worklist: 71467  
Matrix: WT

MB Sample ID	2753395
MB concentration:	0.623
M/B 2 Sigma CSU:	0.341
MB MDC:	0.611
MB Numerical Performance Indicator:	3.59
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCST1467	LCSD71467
Count Date:	2/28/2023	2/28/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.400	33.400
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.803	0.802
Target Conc. (pCi/L, g, F):	4.159	4.166
Uncertainty (Calculated):	0.204	0.204
Result (pCi/L, g, F):	3.818	3.501
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.858	0.804
Numerical Performance Indicator:	-0.76	-1.57
Percent Recovery:	91.79%	84.03%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Are sample and/or duplicate results below RL?	Duplicate Numerical Performance Indicator:
Duplicate Numerical Performance Indicator:	Duplicate Numerical Performance Indicator:
(Based on the LCS/LCSD 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:

\*The method blank result is below the reporting limit for this analysis and is acceptable.

*Handwritten signature*

*Handwritten signature: LAL 3/1/23*

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:		
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:
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):
Sample 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:

# Quality Control Sample Performance Assessment



*Analyst Must Manually Enter All Fields Highlighted in Yellow.*

Test: Ra-228  
Analyst: ZPC  
Date: 2/24/2023  
Worklist: 71482  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2754449
MB concentration:	0.353
M/B 2 Sigma CSU:	0.207
MB MDC:	0.369
MB Numerical Performance Indicator:	3.34
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCSD71482	LCSD71482
Count Date:	2/28/2023	2/28/2023
Spike I.D.:	22-040	22-040
Decay Corrected Spike Concentration (pCi/mL):	33.398	33.398
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.801	0.800
Target Conc. (pCi/L, g, F):	4.172	4.173
Uncertainty (Calculated):	0.204	0.204
Result (pCi/L, g, F):	3.338	3.085
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.886	0.814
Numerical Performance Indicator:	-1.80	-2.54
Percent Recovery:	80.01%	73.93%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	Sample Matrix Spike Duplicate Result
Are sample and/or duplicate results below RL?	Duplicate Numerical Performance Indicator:
Duplicate Numerical Performance Indicator:	(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:	% RPD Limit:
% RPD Limit:	

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

Comments:

\*If the lowest activity sample in this batch is greater than ten times the blank value, the blank is acceptable, otherwise this batch must be re-prepared.

*MBA activity = 1000 - pass*  
*M 3/6/23*

*M 3/6/23*

*VAL*  
*3/6/23*

# Quality Control Sample Performance Assessment



Analyst: Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226  
Analyst: SLC  
Date: 2/23/2023  
Worklist: 71481  
Matrix: WT

Method Blank Assessment	
MB Sample ID	2754448
MB concentration:	0.113
MB 2 Sigma CSU:	0.105
MB MDC:	0.185
MB Numerical Performance Indicator:	2.11
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS71481	LCS71481
Count Date:	3/3/2023	3/3/2023
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.019	24.019
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.507
Target Conc. (pCi/L, g, F):	4.800	4.740
Uncertainty (Calculated):	0.058	0.057
Result (pCi/L, g, F):	4.170	5.261
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.819	0.970
Numerical Performance Indicator:	-1.51	1.05
Percent Recovery:	86.87%	111.01%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS (Y or N)?	
	LCS71481	LCS71481
Sample I.D.:	92651421017	92651421017DUP
Duplicate Sample I.D.:	0.450	0.450
Sample Result (pCi/L, g, F):	0.819	0.200
Sample Duplicate Result (pCi/L, g, F):	5.261	0.232
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.970	0.144
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	NO	See Below #
Are sample and/or duplicate results below RL?	-1.685	1.739
Duplicate Numerical Performance Indicator:	24.39%	64.12%
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	Pass	Pass
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	25%	25%
% RPD Limit:		

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

Comments:

ET  
3-3-23

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: 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 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:

LAM313/23

March 21, 2023

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

RE: Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Dear Ms. Petty:

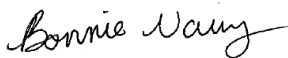
Enclosed are the analytical results for sample(s) received by the laboratory between February 08, 2023 and February 10, 2023. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where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

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

- Pace Analytical Services - Asheville
- Pace Analytical Services - Charlotte
- Pace Analytical Services - Peachtree Corners, GA

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

Sincerely,



Bonnie Vang  
bonnie.vang@pacelabs.com  
(704)875-9092  
Project Manager

Enclosures

cc: Joju Abraham, Georgia Power-CCR  
Lauren Coker, Georgia Pwer  
Noelia Gangi, Georgia Power  
Geoffrey Gay, ARCADIS - Atlanta  
Ben Hodges, Georgia Power-CCR  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
Alex Simpson, Arcadis  
Michael Smilley, Georgia Power  
Becky Steever, Arcadis

Tina Sullivan, ERM  
Jessica Ware, ARCADIS - Atlanta  
Albert Zumbuhl, Arcadis



## REPORT OF LABORATORY ANALYSIS

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

## CERTIFICATIONS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

---

### **Pace Analytical Services Charlotte**

South Carolina Laboratory ID: 99006  
9800 Kinsey Ave. Ste 100, Huntersville, NC 28078  
North Carolina Drinking Water Certification #: 37706  
North Carolina Field Services Certification #: 5342  
North Carolina Wastewater Certification #: 12  
South Carolina Laboratory ID: 99006

South Carolina Certification #: 99006001  
South Carolina Drinking Water Cert. #: 99006003  
Florida/NELAP Certification #: E87627  
Kentucky UST Certification #: 84  
Louisiana DoH Drinking Water #: LA029  
Virginia/VELAP Certification #: 460221

---

### **Pace Analytical Services Asheville**

2225 Riverside Drive, Asheville, NC 28804  
Florida/NELAP Certification #: E87648  
North Carolina Drinking Water Certification #: 37712  
North Carolina Wastewater Certification #: 40

South Carolina Laboratory ID: 99030  
South Carolina Certification #: 99030001  
Virginia/VELAP Certification #: 460222

---

### **Pace Analytical Services Peachtree Corners**

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

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

---

## REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,  
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## SAMPLE SUMMARY

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92651382001	YAT-YGWA-1I	Water	02/07/23 11:45	02/08/23 09:00
92651382002	YAT-YGWA-1D	Water	02/07/23 13:40	02/08/23 09:00
92651382003	YAT-YGWA-2I	Water	02/07/23 15:40	02/08/23 09:00
92651382004	YAT-GWA-2	Water	02/07/23 11:48	02/08/23 09:00
92651382005	YAT-YGWA-5D	Water	02/07/23 16:22	02/08/23 09:00
92651382006	YAT-YGWA-20S	Water	02/07/23 14:50	02/08/23 09:00
92651382007	YAT-YGWA-21I	Water	02/07/23 12:48	02/08/23 09:00
92651382008	YAT-YGWA-17S	Water	02/07/23 11:16	02/08/23 09:00
92651382009	YAT-YGWA-18S	Water	02/07/23 13:48	02/08/23 09:00
92651382010	YAT-YGWA-18I	Water	02/07/23 12:31	02/08/23 09:00
92651382011	YAT-YGWA-39	Water	02/07/23 16:15	02/08/23 09:00
92651382012	YAT-YGWA-47	Water	02/08/23 17:02	02/09/23 12:35
92651382013	YAT-YGWA-30I	Water	02/08/23 15:10	02/09/23 12:35
92651382014	YAT-YGWA-14S	Water	02/08/23 13:50	02/09/23 12:35
92651382015	YAT-YGWA-3I	Water	02/08/23 10:00	02/09/23 12:35
92651382016	YAT-YGWA-3D	Water	02/08/23 11:40	02/09/23 12:35
92651382017	YAT-YGWA-40	Water	02/08/23 12:02	02/09/23 12:35
92651382018	YAT-YGWA-4I	Water	02/09/23 09:55	02/10/23 14:00
92651382019	YAT-YGWA-5I	Water	02/09/23 11:26	02/10/23 14:00

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651382001	YAT-YGWA-1I	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
92651382002	YAT-YGWA-1D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92651382003	YAT-YGWA-2I	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92651382004	YAT-GWA-2	SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	18
92651382005	YAT-YGWA-5D	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
92651382006	YAT-YGWA-20S	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382007	YAT-YGWA-21I	EPA 6010D	MS	4

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651382008	YAT-YGWA-17S	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92651382009	YAT-YGWA-18S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92651382010	YAT-YGWA-18I	SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
92651382011	YAT-YGWA-39	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		SM 2320B-2011	SMS	3
92651382012	YAT-YGWA-47	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92651382013	YAT-YGWA-30I	EPA 6010D	MS	4
		EPA 6020B	CW1	13

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92651382014	YAT-YGWA-14S	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92651382015	YAT-YGWA-3I	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92651382016	YAT-YGWA-3D	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
92651382017	YAT-YGWA-4O	EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
92651382018	YAT-YGWA-4I	SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92651382019	YAT-YGWA-5I	EPA 6010D	MS	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

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**SAMPLE ANALYTE COUNT**

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3

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

**REPORT OF LABORATORY ANALYSIS**

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651382001</b>	<b>YAT-YGWA-1I</b>					
	Performed by	Client			03/03/23 10:59	
	Collected By	Jake Swanson			03/03/23 10:59	
	Collected Date	02/07/23			03/03/23 10:59	
	Collected Time	11:45			03/03/23 10:59	
	pH	6.53	Std. Units		03/03/23 10:59	
EPA 6010D	Potassium	2.0	mg/L	0.20	02/21/23 16:05	
EPA 6010D	Sodium	5.6	mg/L	1.0	02/21/23 16:05	
EPA 6010D	Calcium	2.2	mg/L	1.0	02/21/23 16:05	
EPA 6010D	Magnesium	1.5	mg/L	0.050	02/21/23 16:05	
EPA 6020B	Barium	0.21	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Beryllium	0.00054	mg/L	0.00050	02/21/23 17:54	
EPA 6020B	Chromium	0.0013J	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Cobalt	0.0048J	mg/L	0.0050	02/21/23 17:54	
EPA 6020B	Lithium	0.0029J	mg/L	0.030	02/21/23 17:54	
SM 2540C-2015	Total Dissolved Solids	121	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	20.4	mg/L	5.0	02/15/23 17:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	20.4	mg/L	5.0	02/15/23 17:28	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	02/10/23 21:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	02/10/23 21:29	
EPA 300.0 Rev 2.1 1993	Sulfate	6.6	mg/L	1.0	02/10/23 21:29	
<b>92651382002</b>	<b>YAT-YGWA-1D</b>					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake Swanson			03/03/23 11:00	
	Collected Date	02/07/23			03/03/23 11:00	
	Collected Time	13:40			03/03/23 11:00	
	pH	7.86	Std. Units		03/03/23 11:00	
EPA 6010D	Potassium	4.8	mg/L	0.20	02/21/23 16:10	
EPA 6010D	Sodium	11.5	mg/L	1.0	02/21/23 16:10	
EPA 6010D	Calcium	15.0	mg/L	1.0	02/21/23 16:10	
EPA 6010D	Magnesium	1.9	mg/L	0.050	02/21/23 16:10	
EPA 6020B	Barium	0.14	mg/L	0.0050	02/21/23 18:00	
EPA 6020B	Beryllium	0.0011	mg/L	0.00050	02/21/23 18:00	
EPA 6020B	Cobalt	0.00097J	mg/L	0.0050	02/21/23 18:00	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	02/21/23 18:00	
SM 2540C-2015	Total Dissolved Solids	131	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	65.4	mg/L	5.0	02/15/23 17:46	
SM 2320B-2011	Alkalinity, Total as CaCO3	65.4	mg/L	5.0	02/15/23 17:46	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	02/10/23 21:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.093J	mg/L	0.10	02/10/23 21:44	
EPA 300.0 Rev 2.1 1993	Sulfate	10.6	mg/L	1.0	02/10/23 21:44	
<b>92651382003</b>	<b>YAT-YGWA-2I</b>					
	Performed by	Client			03/03/23 11:00	
	Collected By	Jake Swanson			03/03/23 11:00	
	Collected Date	02/07/23			03/03/23 11:00	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651382003</b>	<b>YAT-YGWA-2I</b>					
	Collected Time	15:40			03/03/23 11:00	
	pH	6.94	Std. Units		03/03/23 11:00	
EPA 6010D	Potassium	5.1	mg/L	0.20	02/21/23 16:15	
EPA 6010D	Sodium	9.0	mg/L	1.0	02/21/23 16:15	M1
EPA 6010D	Calcium	25.6	mg/L	1.0	02/21/23 16:15	M1
EPA 6010D	Magnesium	4.1	mg/L	0.050	02/21/23 16:15	
EPA 6020B	Barium	0.0026J	mg/L	0.0050	02/21/23 18:06	
EPA 6020B	Lithium	0.0047J	mg/L	0.030	02/21/23 18:06	
EPA 6020B	Molybdenum	0.0061J	mg/L	0.010	02/21/23 18:06	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	87.6	mg/L	5.0	02/15/23 18:36	
SM 2320B-2011	Alkalinity, Total as CaCO3	87.6	mg/L	5.0	02/15/23 18:36	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/10/23 21:59	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/10/23 21:59	
EPA 300.0 Rev 2.1 1993	Sulfate	17.8	mg/L	1.0	02/10/23 21:59	
<b>92651382004</b>	<b>YAT-GWA-2</b>					
	Performed by	Client			03/03/23 11:01	
	Collected By	Jake Swanson			03/03/23 11:01	
	Collected Date	02/07/23			03/03/23 11:01	
	Collected Time	11:48			03/03/23 11:01	
	pH	5.94	Std. Units		03/03/23 11:01	
EPA 6010D	Potassium	9.5	mg/L	0.20	02/21/23 17:00	
EPA 6010D	Sodium	8.1	mg/L	1.0	02/21/23 17:00	
EPA 6010D	Calcium	22.3	mg/L	1.0	02/21/23 17:00	
EPA 6010D	Magnesium	19.3	mg/L	0.050	02/21/23 17:00	
EPA 6020B	Barium	0.034	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:12	
EPA 6020B	Cobalt	0.034	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	02/21/23 18:12	
EPA 6020B	Nickel	0.0096	mg/L	0.0050	02/21/23 18:12	
EPA 6020B	Zinc	0.0072J	mg/L	0.010	02/21/23 18:12	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/24/23 12:03	
SM 2540C-2015	Total Dissolved Solids	207	mg/L	25.0	02/10/23 20:18	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	62.4	mg/L	5.0	02/15/23 18:45	
SM 2320B-2011	Alkalinity, Total as CaCO3	62.4	mg/L	5.0	02/15/23 18:45	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/10/23 22:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.095J	mg/L	0.10	02/10/23 22:14	
EPA 300.0 Rev 2.1 1993	Sulfate	82.4	mg/L	1.0	02/10/23 22:14	
<b>92651382005</b>	<b>YAT-YGWA-5D</b>					
	Performed by	Client			03/03/23 11:05	
	Collected By	Jake Swanson			03/03/23 11:05	
	Collected Date	02/07/23			03/03/23 11:05	
	Collected Time	16:22			03/03/23 11:05	
	pH	6.64	Std. Units		03/03/23 11:05	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/21/23 17:05	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651382005</b>	<b>YAT-YGWA-5D</b>					
EPA 6010D	Sodium	9.7	mg/L	1.0	02/21/23 17:05	
EPA 6010D	Calcium	26.6	mg/L	1.0	02/21/23 17:05	
EPA 6010D	Magnesium	4.6	mg/L	0.050	02/21/23 17:05	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/21/23 18:18	
EPA 6020B	Barium	0.0075	mg/L	0.0050	02/21/23 18:18	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	02/21/23 18:18	
EPA 6020B	Molybdenum	0.00095J	mg/L	0.010	02/21/23 18:18	
SM 2540C-2015	Total Dissolved Solids	180	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	96.5	mg/L	5.0	02/15/23 18:52	
SM 2320B-2011	Alkalinity, Total as CaCO3	96.5	mg/L	5.0	02/15/23 18:52	
EPA 300.0 Rev 2.1 1993	Chloride	3.3	mg/L	1.0	02/10/23 22:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	02/10/23 22:29	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	02/10/23 22:29	
<b>92651382006</b>	<b>YAT-YGWA-20S</b>					
	Performed by	Client			03/03/23 11:05	
	Collected By	Jake Swanson			03/03/23 11:05	
	Collected Date	02/07/23			03/03/23 11:05	
	Collected Time	14:50			03/03/23 11:05	
	pH	5.63	Std. Units		03/03/23 11:05	
EPA 6010D	Potassium	0.55	mg/L	0.20	02/21/23 17:10	
EPA 6010D	Sodium	8.7	mg/L	1.0	02/21/23 17:10	
EPA 6010D	Calcium	2.4	mg/L	1.0	02/21/23 17:10	
EPA 6010D	Magnesium	0.58	mg/L	0.050	02/21/23 17:10	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 18:24	
EPA 6020B	Beryllium	0.000074J	mg/L	0.00050	02/21/23 18:24	
EPA 7470A	Mercury	0.00015J	mg/L	0.00020	02/24/23 12:08	
SM 2540C-2015	Total Dissolved Solids	89.0	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	23.3	mg/L	5.0	02/15/23 19:00	
SM 2320B-2011	Alkalinity, Total as CaCO3	23.3	mg/L	5.0	02/15/23 19:00	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	02/10/23 23:14	
<b>92651382007</b>	<b>YAT-YGWA-21I</b>					
	Performed by	Client			03/03/23 11:06	
	Collected By	Jake Swanson			03/03/23 11:06	
	Collected Date	02/07/23			03/03/23 11:06	
	Collected Time	12:48			03/03/23 11:06	
	pH	6.82	Std. Units		03/03/23 11:06	
EPA 6010D	Potassium	3.2	mg/L	0.20	02/21/23 17:14	
EPA 6010D	Sodium	20.4	mg/L	1.0	02/21/23 17:14	
EPA 6010D	Calcium	7.5	mg/L	1.0	02/21/23 17:14	
EPA 6010D	Magnesium	3.9	mg/L	0.050	02/21/23 17:14	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Barium	0.010	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	02/21/23 18:30	
EPA 6020B	Cobalt	0.014	mg/L	0.0050	02/21/23 18:30	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	02/21/23 18:30	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651382007</b>	<b>YAT-YGWA-21I</b>					
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/24/23 12:11	
SM 2540C-2015	Total Dissolved Solids	163	mg/L	25.0	02/10/23 20:19	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	78.4	mg/L	5.0	02/15/23 19:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	78.4	mg/L	5.0	02/15/23 19:06	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	02/10/23 23:28	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/10/23 23:28	
EPA 300.0 Rev 2.1 1993	Sulfate	3.8	mg/L	1.0	02/10/23 23:28	
<b>92651382008</b>	<b>YAT-YGWA-17S</b>					
	Performed by	Client			03/03/23 11:12	
	Collected By	Jake Swanson			03/03/23 11:12	
	Collected Date	02/07/23			03/03/23 11:12	
	Collected Time	11:16			03/03/23 11:12	
	pH	5.47	Std. Units		03/03/23 11:12	
EPA 6010D	Potassium	0.41	mg/L	0.20	02/22/23 15:47	
EPA 6010D	Sodium	14.2	mg/L	1.0	02/21/23 17:19	
EPA 6010D	Calcium	2.9	mg/L	1.0	02/21/23 17:19	
EPA 6010D	Magnesium	0.98	mg/L	0.050	02/21/23 17:19	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	02/21/23 19:05	
EPA 6020B	Barium	0.017	mg/L	0.0050	02/21/23 19:05	
EPA 6020B	Beryllium	0.000096J	mg/L	0.00050	02/21/23 19:05	
EPA 6020B	Boron	0.014J	mg/L	0.040	02/21/23 19:05	
EPA 7470A	Mercury	0.00018J	mg/L	0.00020	02/24/23 12:13	
SM 2540C-2015	Total Dissolved Solids	78.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.6	mg/L	5.0	02/15/23 19:14	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.6	mg/L	5.0	02/15/23 19:14	
EPA 300.0 Rev 2.1 1993	Chloride	11.4	mg/L	1.0	02/10/23 23:43	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	02/10/23 23:43	
<b>92651382009</b>	<b>YAT-YGWA-18S</b>					
	Performed by	Client			03/03/23 11:14	
	Collected By	Jake Swanson			03/03/23 11:14	
	Collected Date	02/07/23			03/03/23 11:14	
	Collected Time	13:48			03/03/23 11:14	
	pH	5.03	Std. Units		03/03/23 11:14	
EPA 6010D	Sodium	7.8	mg/L	1.0	02/21/23 17:24	
EPA 6010D	Calcium	0.79J	mg/L	1.0	02/21/23 17:24	
EPA 6010D	Magnesium	0.91	mg/L	0.050	02/21/23 17:24	
EPA 6010D	Potassium	0.50	mg/L	0.20	02/22/23 15:52	
EPA 6020B	Barium	0.012	mg/L	0.0050	02/21/23 19:11	
EPA 6020B	Beryllium	0.000071J	mg/L	0.00050	02/21/23 19:11	
EPA 6020B	Chromium	0.0016J	mg/L	0.0050	02/21/23 19:11	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/21/23 19:11	
EPA 7470A	Mercury	0.00017J	mg/L	0.00020	02/24/23 12:16	
SM 2540C-2015	Total Dissolved Solids	55.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	9.3	mg/L	5.0	02/15/23 19:20	
SM 2320B-2011	Alkalinity, Total as CaCO3	9.3	mg/L	5.0	02/15/23 19:20	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651382009</b>	<b>YAT-YGWA-18S</b>					
EPA 300.0 Rev 2.1 1993	Chloride	6.4	mg/L	1.0	02/10/23 23:58	
EPA 300.0 Rev 2.1 1993	Sulfate	1.2	mg/L	1.0	02/10/23 23:58	
<b>92651382010</b>	<b>YAT-YGWA-18I</b>					
	Performed by	Client			03/03/23 11:16	
	Collected By	Jake Swanson			03/03/23 11:16	
	Collected Date	02/07/23			03/03/23 11:16	
	Collected Time	12:31			03/03/23 11:16	
	pH	6.00	Std. Units		03/03/23 11:16	
EPA 6010D	Potassium	0.96	mg/L	0.20	02/21/23 17:29	
EPA 6010D	Sodium	12.6	mg/L	1.0	02/21/23 17:29	
EPA 6010D	Calcium	5.5	mg/L	1.0	02/21/23 17:29	
EPA 6010D	Magnesium	3.1	mg/L	0.050	02/21/23 17:29	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/21/23 19:17	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	02/21/23 19:17	
EPA 7470A	Mercury	0.00013J	mg/L	0.00020	02/24/23 12:18	
SM 2540C-2015	Total Dissolved Solids	96.0	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.0	mg/L	5.0	02/15/23 19:34	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.0	mg/L	5.0	02/15/23 19:34	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	02/11/23 00:13	
EPA 300.0 Rev 2.1 1993	Sulfate	0.78J	mg/L	1.0	02/11/23 00:13	
<b>92651382011</b>	<b>YAT-YGWA-39</b>					
	Performed by	Client			03/03/23 11:17	
	Collected By	Jake Swanson			03/03/23 11:17	
	Collected Date	02/07/23			03/03/23 11:17	
	Collected Time	16:15			03/03/23 11:17	
	pH	5.49	Std. Units		03/03/23 11:17	
EPA 6010D	Potassium	6.6	mg/L	0.20	02/21/23 17:34	
EPA 6010D	Sodium	28.1	mg/L	1.0	02/21/23 17:34	
EPA 6010D	Calcium	16.1	mg/L	1.0	02/21/23 17:34	
EPA 6010D	Magnesium	21.7	mg/L	0.050	02/21/23 17:34	
EPA 6020B	Arsenic	0.0029J	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Barium	0.030	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Boron	0.13	mg/L	0.040	02/21/23 19:23	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	02/21/23 19:23	
EPA 6020B	Cobalt	0.00066J	mg/L	0.0050	02/21/23 19:23	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	02/21/23 19:23	
EPA 6020B	Molybdenum	0.0045J	mg/L	0.010	02/21/23 19:23	
SM 2540C-2015	Total Dissolved Solids	224	mg/L	25.0	02/13/23 11:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	177	mg/L	5.0	02/15/23 19:41	
SM 2320B-2011	Alkalinity, Total as CaCO3	177	mg/L	5.0	02/15/23 19:41	
EPA 300.0 Rev 2.1 1993	Chloride	5.6	mg/L	1.0	02/11/23 00:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	02/11/23 00:58	
EPA 300.0 Rev 2.1 1993	Sulfate	9.7	mg/L	1.0	02/11/23 00:58	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651382012</b>	<b>YAT-YGWA-47</b>					
	Performed by	Client			03/03/23 14:32	
	Collected By	Jake Swanson			03/03/23 14:32	
	Collected Date	02/08/23			03/03/23 14:32	
	Collected Time	17:02			03/03/23 14:32	
	pH	5.22	Std. Units		03/03/23 14:32	
EPA 6010D	Potassium	3.7	mg/L	0.20	02/21/23 17:39	
EPA 6010D	Sodium	11.4	mg/L	1.0	02/21/23 17:39	
EPA 6010D	Calcium	9.2	mg/L	1.0	02/21/23 17:39	
EPA 6010D	Magnesium	10	mg/L	0.050	02/21/23 17:39	
EPA 6020B	Barium	0.031	mg/L	0.0050	02/21/23 19:29	
EPA 6020B	Boron	0.011J	mg/L	0.040	02/21/23 19:29	
EPA 6020B	Cadmium	0.00032J	mg/L	0.00050	02/21/23 19:29	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	02/21/23 19:29	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	02/21/23 19:29	
SM 2540C-2015	Total Dissolved Solids	141	mg/L	25.0	02/14/23 12:04	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	37.8	mg/L	5.0	02/17/23 13:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	37.8	mg/L	5.0	02/17/23 13:25	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	02/14/23 05:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.077J	mg/L	0.10	02/14/23 05:10	
EPA 300.0 Rev 2.1 1993	Sulfate	50.5	mg/L	1.0	02/14/23 05:10	
<b>92651382013</b>	<b>YAT-YGWA-30I</b>					
	Performed by	Client			03/03/23 14:39	
	Collected By	Jake Swanson			03/03/23 14:39	
	Collected Date	02/08/23			03/03/23 14:39	
	Collected Time	15:10			03/03/23 14:39	
	pH	6.43	Std. Units		03/03/23 14:39	
EPA 6010D	Potassium	0.55	mg/L	0.20	02/21/23 17:44	
EPA 6010D	Sodium	6.0	mg/L	1.0	02/21/23 17:44	
EPA 6010D	Calcium	1.3	mg/L	1.0	02/21/23 17:44	
EPA 6010D	Magnesium	0.92	mg/L	0.050	02/21/23 17:44	
EPA 6020B	Barium	0.0066	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Chromium	0.0021J	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Cobalt	0.0031J	mg/L	0.0050	02/21/23 19:35	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	02/21/23 19:35	
SM 2540C-2015	Total Dissolved Solids	43.0	mg/L	25.0	02/14/23 12:05	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.4	mg/L	5.0	02/17/23 13:32	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.4	mg/L	5.0	02/17/23 13:32	
EPA 300.0 Rev 2.1 1993	Chloride	1.6	mg/L	1.0	02/14/23 05:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.10	02/14/23 05:25	
EPA 300.0 Rev 2.1 1993	Sulfate	0.96J	mg/L	1.0	02/14/23 05:25	
<b>92651382014</b>	<b>YAT-YGWA-14S</b>					
	Performed by	Client			03/03/23 14:54	
	Collected By	Jake Swanson			03/03/23 14:54	
	Collected Date	02/08/23			03/03/23 14:54	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651382014</b>	<b>YAT-YGWA-14S</b>					
	Collected Time	13:50			03/03/23 14:54	
	pH	5.39	Std. Units		03/03/23 14:54	
EPA 6010D	Potassium	0.87	mg/L	0.20	02/21/23 17:58	
EPA 6010D	Sodium	9.5	mg/L	1.0	02/21/23 17:58	
EPA 6010D	Calcium	1.5	mg/L	1.0	02/21/23 17:58	
EPA 6010D	Magnesium	1.6	mg/L	0.050	02/21/23 17:58	
EPA 6020B	Barium	0.0089	mg/L	0.0050	02/21/23 19:41	
EPA 6020B	Beryllium	0.00022J	mg/L	0.00050	02/21/23 19:41	
EPA 6020B	Boron	0.015J	mg/L	0.040	02/21/23 19:41	
SM 2540C-2015	Total Dissolved Solids	56.0	mg/L	25.0	02/14/23 12:06	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	13.0	mg/L	5.0	02/17/23 13:37	
SM 2320B-2011	Alkalinity, Total as CaCO3	13.0	mg/L	5.0	02/17/23 13:37	
EPA 300.0 Rev 2.1 1993	Chloride	4.9	mg/L	1.0	02/14/23 05:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/14/23 05:40	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	02/14/23 05:40	
<b>92651382015</b>	<b>YAT-YGWA-3I</b>					
	Performed by	Client			03/03/23 14:55	
	Collected By	Jake Swanson			03/03/23 14:55	
	Collected Date	02/08/23			03/03/23 14:55	
	Collected Time	10:00			03/03/23 14:55	
	pH	7.73	Std. Units		03/03/23 14:55	
EPA 6010D	Potassium	5.3	mg/L	0.20	02/21/23 18:03	
EPA 6010D	Sodium	9.4	mg/L	1.0	02/21/23 18:03	
EPA 6010D	Calcium	23.3	mg/L	1.0	02/21/23 18:03	
EPA 6010D	Magnesium	5.4	mg/L	0.050	02/21/23 18:03	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	02/21/23 19:47	
EPA 6020B	Barium	0.0029J	mg/L	0.0050	02/21/23 19:47	
EPA 6020B	Cadmium	0.00013J	mg/L	0.00050	02/21/23 19:47	
EPA 6020B	Lithium	0.018J	mg/L	0.030	02/21/23 19:47	
EPA 6020B	Molybdenum	0.0065J	mg/L	0.010	02/21/23 19:47	
SM 2540C-2015	Total Dissolved Solids	145	mg/L	25.0	02/14/23 12:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	92.2	mg/L	5.0	02/17/23 13:43	
SM 2320B-2011	Alkalinity, Total as CaCO3	92.2	mg/L	5.0	02/17/23 13:43	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/14/23 06:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	02/14/23 06:25	
EPA 300.0 Rev 2.1 1993	Sulfate	14.7	mg/L	1.0	02/14/23 06:25	
<b>92651382016</b>	<b>YAT-YGWA-3D</b>					
	Performed by	Client			03/03/23 14:56	
	Collected By	Jake Swanson			03/03/23 14:56	
	Collected Date	02/08/23			03/03/23 14:56	
	Collected Time	11:40			03/03/23 14:56	
	pH	7.88	Std. Units		03/03/23 14:56	
EPA 6010D	Potassium	3.5	mg/L	0.20	02/21/23 18:08	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:08	
EPA 6010D	Calcium	28.9	mg/L	1.0	02/21/23 18:08	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651382016</b>	<b>YAT-YGWA-3D</b>					
EPA 6010D	Magnesium	3.6	mg/L	0.050	02/21/23 18:08	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	02/21/23 20:05	
EPA 6020B	Barium	0.0048J	mg/L	0.0050	02/21/23 20:05	
EPA 6020B	Lithium	0.023J	mg/L	0.030	02/21/23 20:05	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	02/21/23 20:05	
SM 2540C-2015	Total Dissolved Solids	144	mg/L	25.0	02/14/23 12:07	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	106	mg/L	5.0	02/17/23 13:51	
SM 2320B-2011	Alkalinity, Total as CaCO3	106	mg/L	5.0	02/17/23 13:51	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	02/14/23 07:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.56	mg/L	0.10	02/14/23 07:10	
EPA 300.0 Rev 2.1 1993	Sulfate	7.5	mg/L	1.0	02/14/23 07:10	
<b>92651382017</b>	<b>YAT-YGWA-40</b>					
	Performed by	Client			03/03/23 14:57	
	Collected By	Jake Swanson			03/03/23 14:57	
	Collected Date	02/08/23			03/03/23 14:57	
	Collected Time	12:02			03/03/23 14:57	
	pH	5.71	Std. Units		03/03/23 14:57	
EPA 6010D	Potassium	2.2	mg/L	0.20	02/21/23 18:12	
EPA 6010D	Sodium	10.1	mg/L	1.0	02/21/23 18:12	
EPA 6010D	Calcium	5.9	mg/L	1.0	02/21/23 18:12	
EPA 6010D	Magnesium	3.4	mg/L	0.050	02/21/23 18:12	
EPA 6020B	Barium	0.037	mg/L	0.0050	02/21/23 20:11	
EPA 6020B	Beryllium	0.00026J	mg/L	0.00050	02/21/23 20:11	
EPA 6020B	Boron	0.057	mg/L	0.040	02/21/23 20:11	
EPA 6020B	Lithium	0.00074J	mg/L	0.030	02/21/23 20:11	
SM 2540C-2015	Total Dissolved Solids	115	mg/L	25.0	02/14/23 12:08	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	27.6	mg/L	5.0	02/17/23 14:09	
SM 2320B-2011	Alkalinity, Total as CaCO3	27.6	mg/L	5.0	02/17/23 14:09	
EPA 300.0 Rev 2.1 1993	Chloride	6.9	mg/L	1.0	02/14/23 08:10	
EPA 300.0 Rev 2.1 1993	Sulfate	17.5	mg/L	1.0	02/14/23 08:10	
<b>92651382018</b>	<b>YAT-YGWA-41</b>					
	Performed by	Client			03/03/23 14:57	
	Collected By	Jake Swanson			03/03/23 14:57	
	Collected Date	02/09/23			03/03/23 14:57	
	Collected Time	09:55			03/03/23 14:57	
	pH	6.23	Std. Units		03/03/23 14:57	
EPA 6010D	Potassium	4.1	mg/L	0.20	02/21/23 18:17	
EPA 6010D	Sodium	9.9	mg/L	1.0	02/21/23 18:17	
EPA 6010D	Calcium	9.6	mg/L	1.0	02/21/23 18:17	
EPA 6010D	Magnesium	5.3	mg/L	0.050	02/21/23 18:17	
EPA 6020B	Barium	0.014	mg/L	0.0050	02/21/23 20:17	
EPA 6020B	Lithium	0.014J	mg/L	0.030	02/21/23 20:17	
SM 2540C-2015	Total Dissolved Solids	124	mg/L	25.0	02/15/23 18:40	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	57.7	mg/L	5.0	02/17/23 18:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	57.7	mg/L	5.0	02/17/23 18:12	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92651382018</b>	<b>YAT-YGWA-4I</b>					
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	02/14/23 21:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.067J	mg/L	0.10	02/14/23 21:36	
EPA 300.0 Rev 2.1 1993	Sulfate	8.9	mg/L	1.0	02/14/23 21:36	
<b>92651382019</b>	<b>YAT-YGWA-5I</b>					
	Performed by	Client			03/03/23 14:58	
	Collected By	Jake Swanson			03/03/23 14:58	
	Collected Date	02/09/23			03/03/23 14:58	
	Collected Time	11:26			03/03/23 14:58	
	pH	5.90	Std. Units		03/03/23 14:58	
EPA 6010D	Potassium	1.6	mg/L	0.20	02/21/23 18:22	
EPA 6010D	Sodium	10.8	mg/L	1.0	02/21/23 18:22	
EPA 6010D	Calcium	2.8	mg/L	1.0	02/21/23 18:22	
EPA 6010D	Magnesium	2.7	mg/L	0.050	02/21/23 18:22	
EPA 6020B	Barium	0.019	mg/L	0.0050	02/21/23 20:23	
EPA 6020B	Chromium	0.0012J	mg/L	0.0050	02/21/23 20:23	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	02/21/23 20:23	
SM 2540C-2015	Total Dissolved Solids	59.0	mg/L	25.0	02/15/23 18:40	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	26.4	mg/L	5.0	02/17/23 18:31	
SM 2320B-2011	Alkalinity, Total as CaCO3	26.4	mg/L	5.0	02/17/23 18:31	
EPA 300.0 Rev 2.1 1993	Chloride	5.0	mg/L	1.0	02/14/23 21:51	
EPA 300.0 Rev 2.1 1993	Sulfate	2.9	mg/L	1.0	02/14/23 21:51	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-11</b>									
<b>Lab ID: 92651382001</b>									
Collected: 02/07/23 11:45									
Received: 02/08/23 09:00									
Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 10:59		
Collected By	<b>Jake Swanson</b>				1		03/03/23 10:59		
Collected Date	<b>02/07/23</b>				1		03/03/23 10:59		
Collected Time	<b>11:45</b>				1		03/03/23 10:59		
pH	<b>6.53</b>	Std. Units			1		03/03/23 10:59		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>2.0</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:05	7440-09-7	
Sodium	<b>5.6</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:05	7440-23-5	
Calcium	<b>2.2</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:05	7440-70-2	
Magnesium	<b>1.5</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:05	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 17:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 17:54	7440-38-2	
Barium	<b>0.21</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 17:54	7440-39-3	
Beryllium	<b>0.00054</b>	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 17:54	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 17:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 17:54	7440-43-9	
Chromium	<b>0.0013J</b>	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 17:54	7440-47-3	
Cobalt	<b>0.0048J</b>	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 17:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 17:54	7439-92-1	
Lithium	<b>0.0029J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 17:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 17:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 17:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 17:54	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:49	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>121</b>	mg/L	25.0	25.0	1		02/10/23 20:18		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>20.4</b>	mg/L	5.0	5.0	1		02/15/23 17:28		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/15/23 17:28		
Alkalinity, Total as CaCO <sub>3</sub>	<b>20.4</b>	mg/L	5.0	5.0	1		02/15/23 17:28		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-11**      **Lab ID: 92651382001**      Collected: 02/07/23 11:45      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.5</b>	mg/L	1.0	0.60	1		02/10/23 21:29	16887-00-6	
Fluoride	<b>0.071J</b>	mg/L	0.10	0.050	1		02/10/23 21:29	16984-48-8	
Sulfate	<b>6.6</b>	mg/L	1.0	0.50	1		02/10/23 21:29	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-1D</b>									
<b>Lab ID: 92651382002</b>									
Collected: 02/07/23 13:40									
Received: 02/08/23 09:00									
Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:00		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:00		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:00		
Collected Time	<b>13:40</b>				1		03/03/23 11:00		
pH	<b>7.86</b>	Std. Units			1		03/03/23 11:00		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>4.8</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:10	7440-09-7	
Sodium	<b>11.5</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:10	7440-23-5	
Calcium	<b>15.0</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:10	7440-70-2	
Magnesium	<b>1.9</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:10	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:00	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:00	7440-38-2	
Barium	<b>0.14</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:00	7440-39-3	
Beryllium	<b>0.0011</b>	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:00	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:00	7440-47-3	
Cobalt	<b>0.00097J</b>	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:00	7439-92-1	
Lithium	<b>0.0060J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:00	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:00	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:52	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>131</b>	mg/L	25.0	25.0	1		02/10/23 20:18		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>65.4</b>	mg/L	5.0	5.0	1		02/15/23 17:46		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 17:46		
Alkalinity, Total as CaCO3	<b>65.4</b>	mg/L	5.0	5.0	1		02/15/23 17:46		

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-1D**      **Lab ID: 92651382002**      Collected: 02/07/23 13:40      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.3</b>	mg/L	1.0	0.60	1		02/10/23 21:44	16887-00-6	
Fluoride	<b>0.093J</b>	mg/L	0.10	0.050	1		02/10/23 21:44	16984-48-8	
Sulfate	<b>10.6</b>	mg/L	1.0	0.50	1		02/10/23 21:44	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-2I</b>									
<b>Lab ID: 92651382003</b>									
Collected: 02/07/23 15:40									
Received: 02/08/23 09:00									
Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:00		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:00		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:00		
Collected Time	<b>15:40</b>				1		03/03/23 11:00		
pH	<b>6.94</b>	Std. Units			1		03/03/23 11:00		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>5.1</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 16:15	7440-09-7	
Sodium	<b>9.0</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 16:15	7440-23-5	M1
Calcium	<b>25.6</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 16:15	7440-70-2	M1
Magnesium	<b>4.1</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 16:15	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:06	7440-38-2	
Barium	<b>0.0026J</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:06	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:06	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:06	7439-92-1	
Lithium	<b>0.0047J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:06	7439-93-2	
Molybdenum	<b>0.0061J</b>	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:06	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:06	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 11:55	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>159</b>	mg/L	25.0	25.0	1		02/10/23 20:18		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO3)	<b>87.6</b>	mg/L	5.0	5.0	1		02/15/23 18:36		
Alkalinity, Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 18:36		
Alkalinity, Total as CaCO3	<b>87.6</b>	mg/L	5.0	5.0	1		02/15/23 18:36		

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-YGWA-2I**      **Lab ID: 92651382003**      Collected: 02/07/23 15:40      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.1</b>	mg/L	1.0	0.60	1		02/10/23 21:59	16887-00-6	
Fluoride	<b>0.12</b>	mg/L	0.10	0.050	1		02/10/23 21:59	16984-48-8	
Sulfate	<b>17.8</b>	mg/L	1.0	0.50	1		02/10/23 21:59	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-GWA-2</b>									
<b>Lab ID: 92651382004</b>									
Collected: 02/07/23 11:48									
Received: 02/08/23 09:00									
Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:01		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:01		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:01		
Collected Time	<b>11:48</b>				1		03/03/23 11:01		
pH	<b>5.94</b>	Std. Units			1		03/03/23 11:01		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>9.5</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:00	7440-09-7	
Sodium	<b>8.1</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:00	7440-23-5	
Calcium	<b>22.3</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:00	7440-70-2	
Magnesium	<b>19.3</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:00	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:12	7440-38-2	
Barium	<b>0.034</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:12	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:12	7440-42-8	
Cadmium	<b>0.00012J</b>	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:12	7440-47-3	
Cobalt	<b>0.034</b>	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:12	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	02/20/23 17:00	02/21/23 18:12	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:12	7439-92-1	
Lithium	<b>0.0022J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:12	7439-98-7	
Nickel	<b>0.0096</b>	mg/L	0.0050	0.00071	1	02/20/23 17:00	02/21/23 18:12	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:12	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	02/20/23 17:00	02/21/23 18:12	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:12	7440-28-0	
Vanadium	ND	mg/L	0.010	0.0019	1	02/20/23 17:00	02/21/23 18:12	7440-62-2	
Zinc	<b>0.0072J</b>	mg/L	0.010	0.0070	1	02/20/23 17:00	02/21/23 18:12	7440-66-6	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00013J</b>	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:03	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>207</b>	mg/L	25.0	25.0	1		02/10/23 20:18		

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-GWA-2**      **Lab ID: 92651382004**      Collected: 02/07/23 11:48      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>62.4</b>	mg/L	5.0	5.0	1		02/15/23 18:45		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/15/23 18:45		
Alkalinity, Total as CaCO <sub>3</sub>	<b>62.4</b>	mg/L	5.0	5.0	1		02/15/23 18:45		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.1</b>	mg/L	1.0	0.60	1		02/10/23 22:14	16887-00-6	
Fluoride	<b>0.095J</b>	mg/L	0.10	0.050	1		02/10/23 22:14	16984-48-8	
Sulfate	<b>82.4</b>	mg/L	1.0	0.50	1		02/10/23 22:14	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Sample: YAT-YGWA-5D		Lab ID: 92651382005		Collected: 02/07/23 16:22		Received: 02/08/23 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:05		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:05		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:05		
Collected Time	<b>16:22</b>				1		03/03/23 11:05		
pH	<b>6.64</b>	Std. Units			1		03/03/23 11:05		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>3.7</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:05	7440-09-7	
Sodium	<b>9.7</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:05	7440-23-5	
Calcium	<b>26.6</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:05	7440-70-2	
Magnesium	<b>4.6</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:05	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>ND</b>	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:18	7440-36-0	
Arsenic	<b>0.0030J</b>	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:18	7440-38-2	
Barium	<b>0.0075</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:18	7440-39-3	
Beryllium	<b>ND</b>	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:18	7440-41-7	
Boron	<b>ND</b>	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:18	7440-42-8	
Cadmium	<b>ND</b>	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:18	7440-43-9	
Chromium	<b>ND</b>	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:18	7440-47-3	
Cobalt	<b>ND</b>	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:18	7440-48-4	
Lead	<b>ND</b>	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:18	7439-92-1	
Lithium	<b>0.0059J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:18	7439-93-2	
Molybdenum	<b>0.00095J</b>	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:18	7439-98-7	
Selenium	<b>ND</b>	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:18	7782-49-2	
Thallium	<b>ND</b>	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:18	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>ND</b>	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:05	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>180</b>	mg/L	25.0	25.0	1		02/10/23 20:19		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>96.5</b>	mg/L	5.0	5.0	1		02/15/23 18:52		
Alkalinity,Carbonate (CaCO3)	<b>ND</b>	mg/L	5.0	5.0	1		02/15/23 18:52		
Alkalinity, Total as CaCO3	<b>96.5</b>	mg/L	5.0	5.0	1		02/15/23 18:52		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-5D**      **Lab ID: 92651382005**      Collected: 02/07/23 16:22      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>3.3</b>	mg/L	1.0	0.60	1		02/10/23 22:29	16887-00-6	
Fluoride	<b>0.082J</b>	mg/L	0.10	0.050	1		02/10/23 22:29	16984-48-8	
Sulfate	<b>5.2</b>	mg/L	1.0	0.50	1		02/10/23 22:29	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-20S</b>									
<b>Lab ID: 92651382006</b>									
Collected: 02/07/23 14:50									
Received: 02/08/23 09:00									
Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:05		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:05		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:05		
Collected Time	<b>14:50</b>				1		03/03/23 11:05		
pH	<b>5.63</b>	Std. Units			1		03/03/23 11:05		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>0.55</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:10	7440-09-7	
Sodium	<b>8.7</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:10	7440-23-5	
Calcium	<b>2.4</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:10	7440-70-2	
Magnesium	<b>0.58</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:10	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:24	7440-38-2	
Barium	<b>0.014</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:24	7440-39-3	
Beryllium	<b>0.000074J</b>	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:24	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:24	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:24	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:24	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00015J</b>	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:08	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>89.0</b>	mg/L	25.0	25.0	1		02/10/23 20:19		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>23.3</b>	mg/L	5.0	5.0	1		02/15/23 19:00		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:00		
Alkalinity, Total as CaCO3	<b>23.3</b>	mg/L	5.0	5.0	1		02/15/23 19:00		

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-YGWA-20S**      **Lab ID: 92651382006**      Collected: 02/07/23 14:50      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	2.9	mg/L	1.0	0.60	1		02/10/23 23:14	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:14	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/10/23 23:14	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Sample: YAT-YGWA-211		Lab ID: 92651382007		Collected: 02/07/23 12:48		Received: 02/08/23 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:06		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:06		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:06		
Collected Time	<b>12:48</b>				1		03/03/23 11:06		
pH	<b>6.82</b>	Std. Units			1		03/03/23 11:06		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>3.2</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:14	7440-09-7	
Sodium	<b>20.4</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:14	7440-23-5	
Calcium	<b>7.5</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:14	7440-70-2	
Magnesium	<b>3.9</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:14	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 18:30	7440-36-0	
Arsenic	<b>0.0028J</b>	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 18:30	7440-38-2	
Barium	<b>0.010</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 18:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 18:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 18:30	7440-42-8	
Cadmium	<b>0.00012J</b>	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 18:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 18:30	7440-47-3	
Cobalt	<b>0.014</b>	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 18:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 18:30	7439-92-1	
Lithium	<b>0.0059J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 18:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 18:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 18:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 18:30	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00017J</b>	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:11	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>163</b>	mg/L	25.0	25.0	1		02/10/23 20:19		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>78.4</b>	mg/L	5.0	5.0	1		02/15/23 19:06		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/15/23 19:06		
Alkalinity, Total as CaCO <sub>3</sub>	<b>78.4</b>	mg/L	5.0	5.0	1		02/15/23 19:06		

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-YGWA-211**      **Lab ID: 92651382007**      Collected: 02/07/23 12:48      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>2.4</b>	mg/L	1.0	0.60	1		02/10/23 23:28	16887-00-6	
Fluoride	<b>0.10</b>	mg/L	0.10	0.050	1		02/10/23 23:28	16984-48-8	
Sulfate	<b>3.8</b>	mg/L	1.0	0.50	1		02/10/23 23:28	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Sample: YAT-YGWA-17S		Lab ID: 92651382008		Collected: 02/07/23 11:16		Received: 02/08/23 09:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:12		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:12		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:12		
Collected Time	<b>11:16</b>				1		03/03/23 11:12		
pH	<b>5.47</b>	Std. Units			1		03/03/23 11:12		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>0.41</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/22/23 15:47	7440-09-7	
Sodium	<b>14.2</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:19	7440-23-5	
Calcium	<b>2.9</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:19	7440-70-2	
Magnesium	<b>0.98</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:19	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0013J</b>	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:05	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:05	7440-39-3	
Beryllium	<b>0.000096J</b>	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:05	7440-41-7	
Boron	<b>0.014J</b>	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:05	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00018J</b>	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:13	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>78.0</b>	mg/L	25.0	25.0	1		02/13/23 11:02		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>15.6</b>	mg/L	5.0	5.0	1		02/15/23 19:14		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:14		
Alkalinity, Total as CaCO3	<b>15.6</b>	mg/L	5.0	5.0	1		02/15/23 19:14		

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-YGWA-17S**      **Lab ID: 92651382008**      Collected: 02/07/23 11:16      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	11.4	mg/L	1.0	0.60	1		02/10/23 23:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:43	16984-48-8	
Sulfate	4.9	mg/L	1.0	0.50	1		02/10/23 23:43	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

**Sample: YAT-YGWA-18S**      **Lab ID: 92651382009**      Collected: 02/07/23 13:48      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:14		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:14		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:14		
Collected Time	<b>13:48</b>				1		03/03/23 11:14		
pH	<b>5.03</b>	Std. Units			1		03/03/23 11:14		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D      Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Sodium	<b>7.8</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:24	7440-23-5	
Calcium	<b>0.79J</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:24	7440-70-2	
Magnesium	<b>0.91</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:24	7439-95-4	
Potassium	<b>0.50</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/22/23 15:52	7440-09-7	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B      Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:11	7440-38-2	
Barium	<b>0.012</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:11	7440-39-3	
Beryllium	<b>0.000071J</b>	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:11	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:11	7440-43-9	
Chromium	<b>0.0016J</b>	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:11	7439-92-1	
Lithium	<b>0.0012J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:11	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A      Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00017J</b>	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:16	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>55.0</b>	mg/L	25.0	25.0	1		02/13/23 11:02		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>9.3</b>	mg/L	5.0	5.0	1		02/15/23 19:20		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/15/23 19:20		
Alkalinity, Total as CaCO3	<b>9.3</b>	mg/L	5.0	5.0	1		02/15/23 19:20		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-18S**      **Lab ID: 92651382009**      Collected: 02/07/23 13:48      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.4</b>	mg/L	1.0	0.60	1		02/10/23 23:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/10/23 23:58	16984-48-8	
Sulfate	<b>1.2</b>	mg/L	1.0	0.50	1		02/10/23 23:58	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-18I</b>									
<b>Lab ID: 92651382010</b>									
Collected: 02/07/23 12:31									
Received: 02/08/23 09:00									
Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:16		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:16		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:16		
Collected Time	<b>12:31</b>				1		03/03/23 11:16		
pH	<b>6.00</b>	Std. Units			1		03/03/23 11:16		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>0.96</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:29	7440-09-7	
Sodium	<b>12.6</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:29	7440-23-5	
Calcium	<b>5.5</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:29	7440-70-2	
Magnesium	<b>3.1</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:29	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:17	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:17	7439-92-1	
Lithium	<b>0.0030J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:17	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00013J</b>	mg/L	0.00020	0.00013	1	02/24/23 07:00	02/24/23 12:18	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>96.0</b>	mg/L	25.0	25.0	1		02/13/23 11:02		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>36.0</b>	mg/L	5.0	5.0	1		02/15/23 19:34		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/15/23 19:34		
Alkalinity, Total as CaCO <sub>3</sub>	<b>36.0</b>	mg/L	5.0	5.0	1		02/15/23 19:34		

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-18I**      **Lab ID: 92651382010**      Collected: 02/07/23 12:31      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>7.4</b>	mg/L	1.0	0.60	1		02/11/23 00:13	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/11/23 00:13	16984-48-8	
Sulfate	<b>0.78J</b>	mg/L	1.0	0.50	1		02/11/23 00:13	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Sample: <b>YAT-YGWA-39</b>	Lab ID: <b>92651382011</b>	Collected: 02/07/23 16:15	Received: 02/08/23 09:00	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 11:17		
Collected By	<b>Jake Swanson</b>				1		03/03/23 11:17		
Collected Date	<b>02/07/23</b>				1		03/03/23 11:17		
Collected Time	<b>16:15</b>				1		03/03/23 11:17		
pH	<b>5.49</b>	Std. Units			1		03/03/23 11:17		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>6.6</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:34	7440-09-7	
Sodium	<b>28.1</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:34	7440-23-5	
Calcium	<b>16.1</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:34	7440-70-2	
Magnesium	<b>21.7</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:34	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:23	7440-36-0	
Arsenic	<b>0.0029J</b>	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:23	7440-38-2	
Barium	<b>0.030</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:23	7440-41-7	
Boron	<b>0.13</b>	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:23	7440-42-8	
Cadmium	<b>0.00014J</b>	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:23	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:23	7440-47-3	
Cobalt	<b>0.00066J</b>	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:23	7439-92-1	
Lithium	<b>0.0065J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:23	7439-93-2	
Molybdenum	<b>0.0045J</b>	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:23	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 09:15	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>224</b>	mg/L	25.0	25.0	1		02/13/23 11:02		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>177</b>	mg/L	5.0	5.0	1		02/15/23 19:41		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/15/23 19:41		
Alkalinity, Total as CaCO <sub>3</sub>	<b>177</b>	mg/L	5.0	5.0	1		02/15/23 19:41		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-YGWA-39**      **Lab ID: 92651382011**      Collected: 02/07/23 16:15      Received: 02/08/23 09:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>5.6</b>	mg/L	1.0	0.60	1		02/11/23 00:58	16887-00-6	
Fluoride	<b>0.076J</b>	mg/L	0.10	0.050	1		02/11/23 00:58	16984-48-8	
Sulfate	<b>9.7</b>	mg/L	1.0	0.50	1		02/11/23 00:58	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Sample: <b>YAT-YGWA-47</b>	Lab ID: <b>92651382012</b>	Collected: 02/08/23 17:02	Received: 02/09/23 12:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 14:32		
Collected By	<b>Jake Swanson</b>				1		03/03/23 14:32		
Collected Date	<b>02/08/23</b>				1		03/03/23 14:32		
Collected Time	<b>17:02</b>				1		03/03/23 14:32		
pH	<b>5.22</b>	Std. Units			1		03/03/23 14:32		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>3.7</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:39	7440-09-7	
Sodium	<b>11.4</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:39	7440-23-5	
Calcium	<b>9.2</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:39	7440-70-2	
Magnesium	<b>10</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:39	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:29	7440-38-2	
Barium	<b>0.031</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:29	7440-41-7	
Boron	<b>0.011J</b>	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:29	7440-42-8	
Cadmium	<b>0.00032J</b>	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:29	7440-47-3	
Cobalt	<b>0.0011J</b>	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:29	7439-92-1	
Lithium	<b>0.0037J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:29	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 09:18	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>141</b>	mg/L	25.0	25.0	1		02/14/23 12:04		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>37.8</b>	mg/L	5.0	5.0	1		02/17/23 13:25		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/17/23 13:25		
Alkalinity, Total as CaCO <sub>3</sub>	<b>37.8</b>	mg/L	5.0	5.0	1		02/17/23 13:25		

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-47**      **Lab ID: 92651382012**      Collected: 02/08/23 17:02      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>3.5</b>	mg/L	1.0	0.60	1		02/14/23 05:10	16887-00-6	
Fluoride	<b>0.077J</b>	mg/L	0.10	0.050	1		02/14/23 05:10	16984-48-8	
Sulfate	<b>50.5</b>	mg/L	1.0	0.50	1		02/14/23 05:10	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Sample: YAT-YGWA-301	Lab ID: 92651382013	Collected: 02/08/23 15:10	Received: 02/09/23 12:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 14:39		
Collected By	<b>Jake Swanson</b>				1		03/03/23 14:39		
Collected Date	<b>02/08/23</b>				1		03/03/23 14:39		
Collected Time	<b>15:10</b>				1		03/03/23 14:39		
pH	<b>6.43</b>	Std. Units			1		03/03/23 14:39		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>0.55</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:44	7440-09-7	
Sodium	<b>6.0</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:44	7440-23-5	
Calcium	<b>1.3</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:44	7440-70-2	
Magnesium	<b>0.92</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:44	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:35	7440-38-2	
Barium	<b>0.0066</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:35	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:35	7440-43-9	
Chromium	<b>0.0021J</b>	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:35	7440-47-3	
Cobalt	<b>0.0031J</b>	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:35	7439-92-1	
Lithium	<b>0.0011J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:35	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:17	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>43.0</b>	mg/L	25.0	25.0	1		02/14/23 12:05		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>15.4</b>	mg/L	5.0	5.0	1		02/17/23 13:32		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/17/23 13:32		
Alkalinity, Total as CaCO <sub>3</sub>	<b>15.4</b>	mg/L	5.0	5.0	1		02/17/23 13:32		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-YGWA-301**      **Lab ID: 92651382013**      Collected: 02/08/23 15:10      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.6</b>	mg/L	1.0	0.60	1		02/14/23 05:25	16887-00-6	
Fluoride	<b>0.064J</b>	mg/L	0.10	0.050	1		02/14/23 05:25	16984-48-8	
Sulfate	<b>0.96J</b>	mg/L	1.0	0.50	1		02/14/23 05:25	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-YGWA-14S**      **Lab ID: 92651382014**      Collected: 02/08/23 13:50      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
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**Field Data**

Analytical Method:  
Pace Analytical Services - Charlotte

Performed by	<b>Client</b>				1		03/03/23 14:54		
Collected By	<b>Jake Swanson</b>				1		03/03/23 14:54		
Collected Date	<b>02/08/23</b>				1		03/03/23 14:54		
Collected Time	<b>13:50</b>				1		03/03/23 14:54		
pH	<b>5.39</b>	Std. Units			1		03/03/23 14:54		

**6010D ATL ICP**

Analytical Method: EPA 6010D      Preparation Method: EPA 3010A  
Pace Analytical Services - Peachtree Corners, GA

Potassium	<b>0.87</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 17:58	7440-09-7	
Sodium	<b>9.5</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 17:58	7440-23-5	
Calcium	<b>1.5</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 17:58	7440-70-2	
Magnesium	<b>1.6</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 17:58	7439-95-4	

**6020 MET ICPMS**

Analytical Method: EPA 6020B      Preparation Method: EPA 3005A  
Pace Analytical Services - Peachtree Corners, GA

Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:41	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:41	7440-38-2	
Barium	<b>0.0089</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:41	7440-39-3	
Beryllium	<b>0.00022J</b>	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:41	7440-41-7	
Boron	<b>0.015J</b>	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:41	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:41	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:41	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:41	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:41	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:41	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:41	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:41	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:41	7440-28-0	

**7470 Mercury**

Analytical Method: EPA 7470A      Preparation Method: EPA 7470A  
Pace Analytical Services - Peachtree Corners, GA

Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:20	7439-97-6	
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**2540C Total Dissolved Solids**

Analytical Method: SM 2540C-2015  
Pace Analytical Services - Peachtree Corners, GA

Total Dissolved Solids	<b>56.0</b>	mg/L	25.0	25.0	1		02/14/23 12:06		
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**2320B Alkalinity**

Analytical Method: SM 2320B-2011  
Pace Analytical Services - Asheville

Alkalinity,Bicarbonate (CaCO3)	<b>13.0</b>	mg/L	5.0	5.0	1		02/17/23 13:37		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:37		
Alkalinity, Total as CaCO3	<b>13.0</b>	mg/L	5.0	5.0	1		02/17/23 13:37		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-YGWA-14S**      **Lab ID: 92651382014**      Collected: 02/08/23 13:50      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>4.9</b>	mg/L	1.0	0.60	1		02/14/23 05:40	16887-00-6	
Fluoride	<b>0.059J</b>	mg/L	0.10	0.050	1		02/14/23 05:40	16984-48-8	
Sulfate	<b>6.1</b>	mg/L	1.0	0.50	1		02/14/23 05:40	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-3I</b>									
<b>Lab ID: 92651382015</b>									
Collected: 02/08/23 10:00 Received: 02/09/23 12:35 Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 14:55		
Collected By	<b>Jake Swanson</b>				1		03/03/23 14:55		
Collected Date	<b>02/08/23</b>				1		03/03/23 14:55		
Collected Time	<b>10:00</b>				1		03/03/23 14:55		
pH	<b>7.73</b>	Std. Units			1		03/03/23 14:55		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>5.3</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:03	7440-09-7	
Sodium	<b>9.4</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:03	7440-23-5	
Calcium	<b>23.3</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:03	7440-70-2	
Magnesium	<b>5.4</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:03	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 19:47	7440-36-0	
Arsenic	<b>0.0024J</b>	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 19:47	7440-38-2	
Barium	<b>0.0029J</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 19:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 19:47	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 19:47	7440-42-8	
Cadmium	<b>0.00013J</b>	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 19:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 19:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 19:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 19:47	7439-92-1	
Lithium	<b>0.018J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 19:47	7439-93-2	
Molybdenum	<b>0.0065J</b>	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 19:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 19:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 19:47	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:28	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>145</b>	mg/L	25.0	25.0	1		02/14/23 12:07		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>92.2</b>	mg/L	5.0	5.0	1		02/17/23 13:43		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 13:43		
Alkalinity, Total as CaCO3	<b>92.2</b>	mg/L	5.0	5.0	1		02/17/23 13:43		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-3I**      **Lab ID: 92651382015**      Collected: 02/08/23 10:00      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.1</b>	mg/L	1.0	0.60	1		02/14/23 06:25	16887-00-6	
Fluoride	<b>0.16</b>	mg/L	0.10	0.050	1		02/14/23 06:25	16984-48-8	
Sulfate	<b>14.7</b>	mg/L	1.0	0.50	1		02/14/23 06:25	14808-79-8	

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Sample: YAT-YGWA-3D	Lab ID: 92651382016	Collected: 02/08/23 11:40	Received: 02/09/23 12:35	Matrix: Water					
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 14:56		
Collected By	<b>Jake Swanson</b>				1		03/03/23 14:56		
Collected Date	<b>02/08/23</b>				1		03/03/23 14:56		
Collected Time	<b>11:40</b>				1		03/03/23 14:56		
pH	<b>7.88</b>	Std. Units			1		03/03/23 14:56		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>3.5</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:08	7440-09-7	
Sodium	<b>9.9</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:08	7440-23-5	
Calcium	<b>28.9</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:08	7440-70-2	
Magnesium	<b>3.6</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:08	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 20:05	7440-36-0	
Arsenic	<b>0.0030J</b>	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:05	7440-38-2	
Barium	<b>0.0048J</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:05	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:05	7439-92-1	
Lithium	<b>0.023J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:05	7439-93-2	
Molybdenum	<b>0.012</b>	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:05	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:30	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>144</b>	mg/L	25.0	25.0	1		02/14/23 12:07		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>106</b>	mg/L	5.0	5.0	1		02/17/23 13:51		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/17/23 13:51		
Alkalinity, Total as CaCO <sub>3</sub>	<b>106</b>	mg/L	5.0	5.0	1		02/17/23 13:51		

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-3D**      **Lab ID: 92651382016**      Collected: 02/08/23 11:40      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.2</b>	mg/L	1.0	0.60	1		02/14/23 07:10	16887-00-6	
Fluoride	<b>0.56</b>	mg/L	0.10	0.050	1		02/14/23 07:10	16984-48-8	
Sulfate	<b>7.5</b>	mg/L	1.0	0.50	1		02/14/23 07:10	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Sample: YAT-YGWA-40</b>									
<b>Lab ID: 92651382017</b>									
Collected: 02/08/23 12:02									
Received: 02/09/23 12:35									
Matrix: Water									
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 14:57		
Collected By	<b>Jake Swanson</b>				1		03/03/23 14:57		
Collected Date	<b>02/08/23</b>				1		03/03/23 14:57		
Collected Time	<b>12:02</b>				1		03/03/23 14:57		
pH	<b>5.71</b>	Std. Units			1		03/03/23 14:57		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>2.2</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:12	7440-09-7	
Sodium	<b>10.1</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:12	7440-23-5	
Calcium	<b>5.9</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:12	7440-70-2	
Magnesium	<b>3.4</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:12	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 20:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:11	7440-38-2	
Barium	<b>0.037</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:11	7440-39-3	
Beryllium	<b>0.00026J</b>	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:11	7440-41-7	
Boron	<b>0.057</b>	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:11	7439-92-1	
Lithium	<b>0.00074J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:11	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:33	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>115</b>	mg/L	25.0	25.0	1		02/14/23 12:08		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	<b>27.6</b>	mg/L	5.0	5.0	1		02/17/23 14:09		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	ND	mg/L	5.0	5.0	1		02/17/23 14:09		
Alkalinity, Total as CaCO <sub>3</sub>	<b>27.6</b>	mg/L	5.0	5.0	1		02/17/23 14:09		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-40**      **Lab ID: 92651382017**      Collected: 02/08/23 12:02      Received: 02/09/23 12:35      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>6.9</b>	mg/L	1.0	0.60	1		02/14/23 08:10	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 08:10	16984-48-8	
Sulfate	<b>17.5</b>	mg/L	1.0	0.50	1		02/14/23 08:10	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Sample: YAT-YGWA-4I		Lab ID: 92651382018		Collected: 02/09/23 09:55		Received: 02/10/23 14:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 14:57		
Collected By	<b>Jake Swanson</b>				1		03/03/23 14:57		
Collected Date	<b>02/09/23</b>				1		03/03/23 14:57		
Collected Time	<b>09:55</b>				1		03/03/23 14:57		
pH	<b>6.23</b>	Std. Units			1		03/03/23 14:57		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>4.1</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:17	7440-09-7	
Sodium	<b>9.9</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:17	7440-23-5	
Calcium	<b>9.6</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:17	7440-70-2	
Magnesium	<b>5.3</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:17	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 20:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:17	7440-38-2	
Barium	<b>0.014</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:17	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:17	7439-92-1	
Lithium	<b>0.014J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:17	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:35	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>124</b>	mg/L	25.0	25.0	1		02/15/23 18:40		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011									
Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>57.7</b>	mg/L	5.0	5.0	1		02/17/23 18:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 18:12		
Alkalinity, Total as CaCO3	<b>57.7</b>	mg/L	5.0	5.0	1		02/17/23 18:12		

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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**Sample: YAT-YGWA-4I**      **Lab ID: 92651382018**      Collected: 02/09/23 09:55      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>4.5</b>	mg/L	1.0	0.60	1		02/14/23 21:36	16887-00-6	
Fluoride	<b>0.067J</b>	mg/L	0.10	0.050	1		02/14/23 21:36	16984-48-8	
Sulfate	<b>8.9</b>	mg/L	1.0	0.50	1		02/14/23 21:36	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Sample: YAT-YGWA-5I		Lab ID: 92651382019		Collected: 02/09/23 11:26		Received: 02/10/23 14:00		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>Field Data</b>									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	<b>Client</b>				1		03/03/23 14:58		
Collected By	<b>Jake Swanson</b>				1		03/03/23 14:58		
Collected Date	<b>02/09/23</b>				1		03/03/23 14:58		
Collected Time	<b>11:26</b>				1		03/03/23 14:58		
pH	<b>5.90</b>	Std. Units			1		03/03/23 14:58		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Potassium	<b>1.6</b>	mg/L	0.20	0.15	1	02/20/23 17:00	02/21/23 18:22	7440-09-7	
Sodium	<b>10.8</b>	mg/L	1.0	0.58	1	02/20/23 17:00	02/21/23 18:22	7440-23-5	
Calcium	<b>2.8</b>	mg/L	1.0	0.12	1	02/20/23 17:00	02/21/23 18:22	7440-70-2	
Magnesium	<b>2.7</b>	mg/L	0.050	0.012	1	02/20/23 17:00	02/21/23 18:22	7439-95-4	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00078	1	02/20/23 17:00	02/21/23 20:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	02/20/23 17:00	02/21/23 20:23	7440-38-2	
Barium	<b>0.019</b>	mg/L	0.0050	0.00067	1	02/20/23 17:00	02/21/23 20:23	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	02/20/23 17:00	02/21/23 20:23	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	02/20/23 17:00	02/21/23 20:23	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	02/20/23 17:00	02/21/23 20:23	7440-43-9	
Chromium	<b>0.0012J</b>	mg/L	0.0050	0.0011	1	02/20/23 17:00	02/21/23 20:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	02/20/23 17:00	02/21/23 20:23	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	02/20/23 17:00	02/21/23 20:23	7439-92-1	
Lithium	<b>0.0036J</b>	mg/L	0.030	0.00073	1	02/20/23 17:00	02/21/23 20:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	02/20/23 17:00	02/21/23 20:23	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	02/20/23 17:00	02/21/23 20:23	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	02/20/23 17:00	02/21/23 20:23	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	ND	mg/L	0.00020	0.00013	1	02/27/23 15:15	02/28/23 11:38	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>59.0</b>	mg/L	25.0	25.0	1		02/15/23 18:40		
<b>2320B Alkalinity</b>									
Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville									
Alkalinity,Bicarbonate (CaCO3)	<b>26.4</b>	mg/L	5.0	5.0	1		02/17/23 18:31		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/17/23 18:31		
Alkalinity, Total as CaCO3	<b>26.4</b>	mg/L	5.0	5.0	1		02/17/23 18:31		

## REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

**Sample: YAT-YGWA-5I**      **Lab ID: 92651382019**      Collected: 02/09/23 11:26      Received: 02/10/23 14:00      Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	5.0	mg/L	1.0	0.60	1		02/14/23 21:51	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/14/23 21:51	16984-48-8	
Sulfate	2.9	mg/L	1.0	0.50	1		02/14/23 21:51	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch:	757001	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932792 Matrix: Water  
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	02/21/23 15:56	
Magnesium	mg/L	ND	0.050	0.012	02/21/23 15:56	
Potassium	mg/L	ND	0.20	0.15	02/21/23 15:56	
Sodium	mg/L	ND	1.0	0.58	02/21/23 15:56	

LABORATORY CONTROL SAMPLE: 3932793

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	100	80-120	
Magnesium	mg/L	1	1.0	101	80-120	
Potassium	mg/L	1	0.97	97	80-120	
Sodium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932794 3932795

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651382003 Result	Spike Conc.	Spike Conc.	Conc.								
Calcium	mg/L	25.6	1	1	25.6	26.5	4	88	75-125	3	20	M1	
Magnesium	mg/L	4.1	1	1	4.9	5.1	87	101	75-125	3	20		
Potassium	mg/L	5.1	1	1	6.1	6.2	93	103	75-125	2	20		
Sodium	mg/L	9.0	1	1	9.7	10	65	97	75-125	3	20	M1	

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

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 756999 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3932782 Matrix: Water  
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011, 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	02/21/23 17:42	
Arsenic	mg/L	ND	0.0050	0.0022	02/21/23 17:42	
Barium	mg/L	ND	0.0050	0.00067	02/21/23 17:42	
Beryllium	mg/L	ND	0.00050	0.000054	02/21/23 17:42	
Boron	mg/L	ND	0.040	0.0086	02/21/23 17:42	
Cadmium	mg/L	ND	0.00050	0.00011	02/21/23 17:42	
Chromium	mg/L	ND	0.0050	0.0011	02/21/23 17:42	
Cobalt	mg/L	ND	0.0050	0.00039	02/21/23 17:42	
Copper	mg/L	ND	0.0050	0.0010	02/21/23 17:42	
Lead	mg/L	ND	0.0010	0.00089	02/21/23 17:42	
Lithium	mg/L	ND	0.030	0.00073	02/21/23 17:42	
Molybdenum	mg/L	ND	0.010	0.00074	02/21/23 17:42	
Nickel	mg/L	ND	0.0050	0.00071	02/21/23 17:42	
Selenium	mg/L	ND	0.0050	0.0014	02/21/23 17:42	
Silver	mg/L	ND	0.0050	0.00044	02/21/23 17:42	
Thallium	mg/L	ND	0.0010	0.00018	02/21/23 17:42	
Vanadium	mg/L	ND	0.010	0.0019	02/21/23 17:42	
Zinc	mg/L	ND	0.010	0.0070	02/21/23 17:42	

LABORATORY CONTROL SAMPLE: 3932783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	110	80-120	
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	104	80-120	
Cobalt	mg/L	0.1	0.10	104	80-120	
Copper	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	108	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Nickel	mg/L	0.1	0.10	102	80-120	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

LABORATORY CONTROL SAMPLE: 3932783

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.10	103	80-120	
Silver	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	
Vanadium	mg/L	0.1	0.10	102	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3932784 3932785

Parameter	Units	3932784		3932785		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651382007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	108	75-125	1	20
Arsenic	mg/L	0.0028J	0.1	0.1	0.10	0.10	100	100	75-125	1	20
Barium	mg/L	0.010	0.1	0.1	0.11	0.12	103	105	75-125	1	20
Beryllium	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20
Boron	mg/L	ND	1	1	1.0	1.0	101	100	75-125	1	20
Cadmium	mg/L	0.00012J	0.1	0.1	0.10	0.10	105	103	75-125	1	20
Chromium	mg/L	ND	0.1	0.1	0.11	0.10	106	102	75-125	4	20
Cobalt	mg/L	0.014	0.1	0.1	0.12	0.11	102	100	75-125	2	20
Copper	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20
Lead	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	2	20
Lithium	mg/L	0.0059J	0.1	0.1	0.11	0.11	99	100	75-125	0	20
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20
Nickel	mg/L	ND	0.1	0.1	0.10	0.099	103	99	75-125	4	20
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20
Silver	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20
Thallium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	1	20
Vanadium	mg/L	0.0024J	0.1	0.1	0.11	0.10	104	103	75-125	2	20
Zinc	mg/L	0.31	0.1	0.1	0.31	0.30	-1	-11	75-125	3	20 M1

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch:	757772	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010

METHOD BLANK: 3936482 Matrix: Water  
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/24/23 11:05	

LABORATORY CONTROL SAMPLE: 3936483

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0023	92	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3936484 3936485

Parameter	Units	92651415001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0021	83	84	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 758311 Analysis Method: EPA 7470A  
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92651382011, 92651382012

METHOD BLANK: 3939038 Matrix: Water  
Associated Lab Samples: 92651382011, 92651382012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 08:04	

LABORATORY CONTROL SAMPLE: 3939039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939040 3939041

Parameter	Units	92650181021		3939041		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	0.0023	0.0023	92	93	75-125	1	20	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch:	758312	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

METHOD BLANK: 3939045 Matrix: Water  
Associated Lab Samples: 92651382013, 92651382014, 92651382015, 92651382016, 92651382017, 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	02/28/23 10:25	

LABORATORY CONTROL SAMPLE: 3939046

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3939047 3939048

Parameter	Units	92651576003		3939047		3939048		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MS Spike Conc.	MS Result	MS Spike Conc.	MS Result	MS Spike Conc.				
Mercury	mg/L	ND	0.0025	0.0025	0.0025	0.0023	89	89	75-125	0	20

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 755432 Analysis Method: SM 2540C-2015  
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3924925 Matrix: Water  
Associated Lab Samples: 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/13/23 11:02	

LABORATORY CONTROL SAMPLE: 3924926

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3924927

Parameter	Units	92651382008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	78.0	72.0	8	10	

SAMPLE DUPLICATE: 3924928

Parameter	Units	92650182022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	489	496	1	10	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 755730 Analysis Method: SM 2540C-2015  
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

METHOD BLANK: 3926329 Matrix: Water  
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/14/23 11:56	

LABORATORY CONTROL SAMPLE: 3926330

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

SAMPLE DUPLICATE: 3926331

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

SAMPLE DUPLICATE: 3926332

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

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 755997 Analysis Method: SM 2540C-2015  
QC Batch Method: SM 2540C-2015 Analysis Description: 2540C Total Dissolved Solids  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3927731 Matrix: Water  
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/15/23 18:35	

LABORATORY CONTROL SAMPLE: 3927732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	384	96	80-120	

SAMPLE DUPLICATE: 3927733

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

SAMPLE DUPLICATE: 3927734

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

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 755796 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382001, 92651382002

METHOD BLANK: 3926730 Matrix: Water  
Associated Lab Samples: 92651382001, 92651382002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 14:32	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 14:32	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 14:32	

LABORATORY CONTROL SAMPLE: 3926731

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.4	99	80-120	

LABORATORY CONTROL SAMPLE: 3926732

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.6	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926733 3926734

Parameter	Units	3926733		3926734		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	20.4	50	50	69.8	70.8	99	101	80-120	1	25

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926735 3926736

Parameter	Units	3926735		3926736		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Alkalinity, Total as CaCO3	mg/L	65.4	50	50	117	121	102	111	80-120	4	25

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 755797 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3926737 Matrix: Water  
Associated Lab Samples: 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/15/23 18:18	

LABORATORY CONTROL SAMPLE: 3926738

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

LABORATORY CONTROL SAMPLE: 3926739

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.9	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926740 3926741

Parameter	Units	92651415002 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	ND	50	50	53.5	53.8	102	102	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926742 3926743

Parameter	Units	92651415003 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	Spike Conc.								
Alkalinity, Total as CaCO3	mg/L	10.3	50	50	62.8	63.4	105	106	80-120	1	25	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 756119 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

METHOD BLANK: 3928501 Matrix: Water  
Associated Lab Samples: 92651382012, 92651382013, 92651382014, 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 11:43	

LABORATORY CONTROL SAMPLE: 3928502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

LABORATORY CONTROL SAMPLE: 3928503

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928504 3928505

Parameter	Units	3928504		3928505		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92651771001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	219	50	50	262	271	86	104	80-120	3	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3928506 3928507

Parameter	Units	3928506		3928507		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		92651771002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							MSD Result
Alkalinity, Total as CaCO3	mg/L	242	50	50	287	284	90	83	80-120	1	25	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 756264 Analysis Method: SM 2320B-2011  
QC Batch Method: SM 2320B-2011 Analysis Description: 2320B Alkalinity  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3929037 Matrix: Water  
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/17/23 15:34	

LABORATORY CONTROL SAMPLE: 3929038

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.9	102	80-120	

LABORATORY CONTROL SAMPLE: 3929039

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929040 3929041

Parameter	Units	92651382018		92651382019		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result								
Alkalinity, Total as CaCO3	mg/L	57.7	50	50	111	113	107	111	80-120	1	25		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3929042 3929043

Parameter	Units	92651382019		92651382018		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	Result								
Alkalinity, Total as CaCO3	mg/L	26.4	50	50	78.1	79.1	103	105	80-120	1	25		

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 755105 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

METHOD BLANK: 3923321 Matrix: Water  
Associated Lab Samples: 92651382001, 92651382002, 92651382003, 92651382004, 92651382005, 92651382006, 92651382007, 92651382008, 92651382009, 92651382010, 92651382011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/10/23 20:14	
Fluoride	mg/L	ND	0.10	0.050	02/10/23 20:14	
Sulfate	mg/L	ND	1.0	0.50	02/10/23 20:14	

LABORATORY CONTROL SAMPLE: 3923322

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.5	99	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	48.8	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923323 3923324

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651536005 Result	Spike Conc.	Spike Conc.	MS Result						
Chloride	mg/L	3.9	50	50	53.7	54.3	100	101	90-110	1	10
Fluoride	mg/L	0.074J	2.5	2.5	2.5	2.6	98	100	90-110	2	10
Sulfate	mg/L	5.0	50	50	53.3	54.1	97	98	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3923325 3923326

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651382010 Result	Spike Conc.	Spike Conc.	MS Result						
Chloride	mg/L	7.4	50	50	55.6	56.6	97	98	90-110	2	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	93	96	90-110	4	10
Sulfate	mg/L	0.78J	50	50	47.5	48.5	93	96	90-110	2	10

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 755595 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville  
Associated Lab Samples: 92651382012, 92651382013, 92651382014

METHOD BLANK: 3925880 Matrix: Water  
Associated Lab Samples: 92651382012, 92651382013, 92651382014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/13/23 22:52	
Fluoride	mg/L	ND	0.10	0.050	02/13/23 22:52	
Sulfate	mg/L	ND	1.0	0.50	02/13/23 22:52	

LABORATORY CONTROL SAMPLE: 3925881

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.1	102	90-110	
Fluoride	mg/L	2.5	2.7	107	90-110	
Sulfate	mg/L	50	50.9	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925882 3925883

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651580015 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	3.8	50	50	53.5	56.1	99	105	90-110	5	10		
Fluoride	mg/L	0.050J	2.5	2.5	3.0	3.0	117	117	90-110	0	10	M1	
Sulfate	mg/L	368	50	50	417	420	99	104	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925884 3925885

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651415007 Result	Spike Conc.	Spike Conc.	Conc.								
Chloride	mg/L	ND	50	50	51.3	52.7	103	105	90-110	3	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	106	107	90-110	1	10		
Sulfate	mg/L	ND	50	50	51.3	53.3	102	106	90-110	4	10		

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

QC Batch: 755597 Analysis Method: EPA 300.0 Rev 2.1 1993  
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
 Laboratory: Pace Analytical Services - Asheville  
 Associated Lab Samples: 92651382015, 92651382016, 92651382017

METHOD BLANK: 3925890 Matrix: Water  
 Associated Lab Samples: 92651382015, 92651382016, 92651382017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 05:55	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 05:55	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 05:55	

LABORATORY CONTROL SAMPLE: 3925891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.1	104	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.3	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925892 3925893

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651382015	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1.1	50	50	51.8	52.9	101	103	90-110	2	10		
Fluoride	mg/L	0.16	2.5	2.5	2.9	2.9	109	110	90-110	1	10		
Sulfate	mg/L	14.7	50	50	64.8	65.7	100	102	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3925894 3925895

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651745002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	1960	50	50	1980	2000	38	74	90-110	1	10	M1	
Fluoride	mg/L	ND	2.5	2.5	ND	0.77	-2	29	90-110		10	M1	
Sulfate	mg/L	26.1	50	50	78.9	80.4	106	109	90-110	2	10		

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

QC Batch: 755672 Analysis Method: EPA 300.0 Rev 2.1 1993  
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions  
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92651382018, 92651382019

METHOD BLANK: 3926089 Matrix: Water  
Associated Lab Samples: 92651382018, 92651382019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/14/23 13:03	
Fluoride	mg/L	ND	0.10	0.050	02/14/23 13:03	
Sulfate	mg/L	ND	1.0	0.50	02/14/23 13:03	

LABORATORY CONTROL SAMPLE: 3926090

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.9	100	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	49.1	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926091 3926092

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651576004	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	15.1	50	50	65.5	66.8	101	103	90-110	2	10		
Fluoride	mg/L	0.070J	2.5	2.5	2.6	2.7	101	104	90-110	3	10		
Sulfate	mg/L	89.7	50	50	147	148	114	116	90-110	1	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3926093 3926094

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92651614002	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5.9	50	50	58.0	58.3	104	105	90-110	0	10		
Fluoride	mg/L	0.11	2.5	2.5	2.8	2.8	106	108	90-110	1	10		
Sulfate	mg/L	193	50	50	243	244	101	102	90-110	0	10		

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### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

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### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

A separate vial preserved to a pH of 4-5 is recommended in SW846 Chapter 4 for the analysis of Acrolein and Acrylonitrile by EPA Method 8260.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

### ANALYTE QUALIFIERS

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

## REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382001	YAT-YGWA-1I				
92651382002	YAT-YGWA-1D				
92651382003	YAT-YGWA-2I				
92651382004	YAT-GWA-2				
92651382005	YAT-YGWA-5D				
92651382006	YAT-YGWA-20S				
92651382007	YAT-YGWA-21I				
92651382008	YAT-YGWA-17S				
92651382009	YAT-YGWA-18S				
92651382010	YAT-YGWA-18I				
92651382011	YAT-YGWA-39				
92651382012	YAT-YGWA-47				
92651382013	YAT-YGWA-30I				
92651382014	YAT-YGWA-14S				
92651382015	YAT-YGWA-3I				
92651382016	YAT-YGWA-3D				
92651382017	YAT-YGWA-40				
92651382018	YAT-YGWA-4I				
92651382019	YAT-YGWA-5I				
92651382001	YAT-YGWA-1I	EPA 3010A	757001	EPA 6010D	757027
92651382002	YAT-YGWA-1D	EPA 3010A	757001	EPA 6010D	757027
92651382003	YAT-YGWA-2I	EPA 3010A	757001	EPA 6010D	757027
92651382004	YAT-GWA-2	EPA 3010A	757001	EPA 6010D	757027
92651382005	YAT-YGWA-5D	EPA 3010A	757001	EPA 6010D	757027
92651382006	YAT-YGWA-20S	EPA 3010A	757001	EPA 6010D	757027
92651382007	YAT-YGWA-21I	EPA 3010A	757001	EPA 6010D	757027
92651382008	YAT-YGWA-17S	EPA 3010A	757001	EPA 6010D	757027
92651382009	YAT-YGWA-18S	EPA 3010A	757001	EPA 6010D	757027
92651382010	YAT-YGWA-18I	EPA 3010A	757001	EPA 6010D	757027
92651382011	YAT-YGWA-39	EPA 3010A	757001	EPA 6010D	757027
92651382012	YAT-YGWA-47	EPA 3010A	757001	EPA 6010D	757027
92651382013	YAT-YGWA-30I	EPA 3010A	757001	EPA 6010D	757027
92651382014	YAT-YGWA-14S	EPA 3010A	757001	EPA 6010D	757027
92651382015	YAT-YGWA-3I	EPA 3010A	757001	EPA 6010D	757027
92651382016	YAT-YGWA-3D	EPA 3010A	757001	EPA 6010D	757027
92651382017	YAT-YGWA-40	EPA 3010A	757001	EPA 6010D	757027
92651382018	YAT-YGWA-4I	EPA 3010A	757001	EPA 6010D	757027
92651382019	YAT-YGWA-5I	EPA 3010A	757001	EPA 6010D	757027
92651382001	YAT-YGWA-1I	EPA 3005A	756999	EPA 6020B	757022
92651382002	YAT-YGWA-1D	EPA 3005A	756999	EPA 6020B	757022
92651382003	YAT-YGWA-2I	EPA 3005A	756999	EPA 6020B	757022
92651382004	YAT-GWA-2	EPA 3005A	756999	EPA 6020B	757022
92651382005	YAT-YGWA-5D	EPA 3005A	756999	EPA 6020B	757022
92651382006	YAT-YGWA-20S	EPA 3005A	756999	EPA 6020B	757022
92651382007	YAT-YGWA-21I	EPA 3005A	756999	EPA 6020B	757022
92651382008	YAT-YGWA-17S	EPA 3005A	756999	EPA 6020B	757022
92651382009	YAT-YGWA-18S	EPA 3005A	756999	EPA 6020B	757022
92651382010	YAT-YGWA-18I	EPA 3005A	756999	EPA 6020B	757022

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382011	YAT-YGWA-39	EPA 3005A	756999	EPA 6020B	757022
92651382012	YAT-YGWA-47	EPA 3005A	756999	EPA 6020B	757022
92651382013	YAT-YGWA-30I	EPA 3005A	756999	EPA 6020B	757022
92651382014	YAT-YGWA-14S	EPA 3005A	756999	EPA 6020B	757022
92651382015	YAT-YGWA-3I	EPA 3005A	756999	EPA 6020B	757022
92651382016	YAT-YGWA-3D	EPA 3005A	756999	EPA 6020B	757022
92651382017	YAT-YGWA-40	EPA 3005A	756999	EPA 6020B	757022
92651382018	YAT-YGWA-4I	EPA 3005A	756999	EPA 6020B	757022
92651382019	YAT-YGWA-5I	EPA 3005A	756999	EPA 6020B	757022
92651382001	YAT-YGWA-1I	EPA 7470A	757772	EPA 7470A	757938
92651382002	YAT-YGWA-1D	EPA 7470A	757772	EPA 7470A	757938
92651382003	YAT-YGWA-2I	EPA 7470A	757772	EPA 7470A	757938
92651382004	YAT-GWA-2	EPA 7470A	757772	EPA 7470A	757938
92651382005	YAT-YGWA-5D	EPA 7470A	757772	EPA 7470A	757938
92651382006	YAT-YGWA-20S	EPA 7470A	757772	EPA 7470A	757938
92651382007	YAT-YGWA-21I	EPA 7470A	757772	EPA 7470A	757938
92651382008	YAT-YGWA-17S	EPA 7470A	757772	EPA 7470A	757938
92651382009	YAT-YGWA-18S	EPA 7470A	757772	EPA 7470A	757938
92651382010	YAT-YGWA-18I	EPA 7470A	757772	EPA 7470A	757938
92651382011	YAT-YGWA-39	EPA 7470A	758311	EPA 7470A	758406
92651382012	YAT-YGWA-47	EPA 7470A	758311	EPA 7470A	758406
92651382013	YAT-YGWA-30I	EPA 7470A	758312	EPA 7470A	758407
92651382014	YAT-YGWA-14S	EPA 7470A	758312	EPA 7470A	758407
92651382015	YAT-YGWA-3I	EPA 7470A	758312	EPA 7470A	758407
92651382016	YAT-YGWA-3D	EPA 7470A	758312	EPA 7470A	758407
92651382017	YAT-YGWA-40	EPA 7470A	758312	EPA 7470A	758407
92651382018	YAT-YGWA-4I	EPA 7470A	758312	EPA 7470A	758407
92651382019	YAT-YGWA-5I	EPA 7470A	758312	EPA 7470A	758407
92651382001	YAT-YGWA-1I	SM 2540C-2015	755255		
92651382002	YAT-YGWA-1D	SM 2540C-2015	755255		
92651382003	YAT-YGWA-2I	SM 2540C-2015	755255		
92651382004	YAT-GWA-2	SM 2540C-2015	755255		
92651382005	YAT-YGWA-5D	SM 2540C-2015	755255		
92651382006	YAT-YGWA-20S	SM 2540C-2015	755255		
92651382007	YAT-YGWA-21I	SM 2540C-2015	755255		
92651382008	YAT-YGWA-17S	SM 2540C-2015	755432		
92651382009	YAT-YGWA-18S	SM 2540C-2015	755432		
92651382010	YAT-YGWA-18I	SM 2540C-2015	755432		
92651382011	YAT-YGWA-39	SM 2540C-2015	755432		
92651382012	YAT-YGWA-47	SM 2540C-2015	755730		
92651382013	YAT-YGWA-30I	SM 2540C-2015	755730		
92651382014	YAT-YGWA-14S	SM 2540C-2015	755730		
92651382015	YAT-YGWA-3I	SM 2540C-2015	755730		
92651382016	YAT-YGWA-3D	SM 2540C-2015	755730		
92651382017	YAT-YGWA-40	SM 2540C-2015	755730		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92651382

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92651382018	YAT-YGWA-4I	SM 2540C-2015	755997		
92651382019	YAT-YGWA-5I	SM 2540C-2015	755997		
92651382001	YAT-YGWA-1I	SM 2320B-2011	755796		
92651382002	YAT-YGWA-1D	SM 2320B-2011	755796		
92651382003	YAT-YGWA-2I	SM 2320B-2011	755797		
92651382004	YAT-GWA-2	SM 2320B-2011	755797		
92651382005	YAT-YGWA-5D	SM 2320B-2011	755797		
92651382006	YAT-YGWA-20S	SM 2320B-2011	755797		
92651382007	YAT-YGWA-21I	SM 2320B-2011	755797		
92651382008	YAT-YGWA-17S	SM 2320B-2011	755797		
92651382009	YAT-YGWA-18S	SM 2320B-2011	755797		
92651382010	YAT-YGWA-18I	SM 2320B-2011	755797		
92651382011	YAT-YGWA-39	SM 2320B-2011	755797		
92651382012	YAT-YGWA-47	SM 2320B-2011	756119		
92651382013	YAT-YGWA-30I	SM 2320B-2011	756119		
92651382014	YAT-YGWA-14S	SM 2320B-2011	756119		
92651382015	YAT-YGWA-3I	SM 2320B-2011	756119		
92651382016	YAT-YGWA-3D	SM 2320B-2011	756119		
92651382017	YAT-YGWA-40	SM 2320B-2011	756119		
92651382018	YAT-YGWA-4I	SM 2320B-2011	756264		
92651382019	YAT-YGWA-5I	SM 2320B-2011	756264		
92651382001	YAT-YGWA-1I	EPA 300.0 Rev 2.1 1993	755105		
92651382002	YAT-YGWA-1D	EPA 300.0 Rev 2.1 1993	755105		
92651382003	YAT-YGWA-2I	EPA 300.0 Rev 2.1 1993	755105		
92651382004	YAT-GWA-2	EPA 300.0 Rev 2.1 1993	755105		
92651382005	YAT-YGWA-5D	EPA 300.0 Rev 2.1 1993	755105		
92651382006	YAT-YGWA-20S	EPA 300.0 Rev 2.1 1993	755105		
92651382007	YAT-YGWA-21I	EPA 300.0 Rev 2.1 1993	755105		
92651382008	YAT-YGWA-17S	EPA 300.0 Rev 2.1 1993	755105		
92651382009	YAT-YGWA-18S	EPA 300.0 Rev 2.1 1993	755105		
92651382010	YAT-YGWA-18I	EPA 300.0 Rev 2.1 1993	755105		
92651382011	YAT-YGWA-39	EPA 300.0 Rev 2.1 1993	755105		
92651382012	YAT-YGWA-47	EPA 300.0 Rev 2.1 1993	755595		
92651382013	YAT-YGWA-30I	EPA 300.0 Rev 2.1 1993	755595		
92651382014	YAT-YGWA-14S	EPA 300.0 Rev 2.1 1993	755595		
92651382015	YAT-YGWA-3I	EPA 300.0 Rev 2.1 1993	755597		
92651382016	YAT-YGWA-3D	EPA 300.0 Rev 2.1 1993	755597		
92651382017	YAT-YGWA-40	EPA 300.0 Rev 2.1 1993	755597		
92651382018	YAT-YGWA-4I	EPA 300.0 Rev 2.1 1993	755672		
92651382019	YAT-YGWA-5I	EPA 300.0 Rev 2.1 1993	755672		

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

Effective Date: 11/14/2022

Laboratory receiving samples:

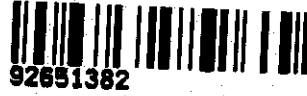
Asheville  Eden  Greenwood  Huntersville  Raleigh  Me

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO#: 92651382



Courier:  Commercial  Fed Ex  UPS  USPS  Client  Other:

Date/Initials Person Examining Contents: 2/8/23

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Biological Tissue Frozen?  Yes  No  N/A

Cooler Temp: 4.7 Correction Factor: 0.1 Add/Subtract (°C)

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

Cooler Temp Corrected (°C): 4.8

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

Person contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Project Manager SCURF Review: \_\_\_\_\_ Date: \_\_\_\_\_

Project Manager SRF Review: \_\_\_\_\_ Date: \_\_\_\_\_



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

Effective Date: 11/14/2022

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

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

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

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

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG8U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1			X																								
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pH Adjustment Log for Preserved Samples

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

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



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92651382

PM: BV Due Date: 02/22/23
CLIENT: GA-GA Power

Courier: Fed Ex, UPS, USPS, Client, Pace, Other

Custody Seal Present? Yes, No, Seals Intact? Yes, No

Date/Initials Person Examining Contents: 2/8/23

Packing Material: Bubble Wrap, Bubble Bags, None, Other

Biological Tissue Frozen? Yes, No, N/A

Thermometer: IR Gun ID: 214, Type of Ice: Wet, Blue, None

Cooler Temp: 4.7, Correction Factor: Add/Subtract (C): 0.1, Cooler Temp Corrected (C): 4.8

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

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

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

Table with 11 rows of sample condition checks (Chain of Custody Present, Samples Arrived within Hold Time, etc.) and a Comments/Discrepancy column.

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? Yes, No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:



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

Effective Date: 11/14/2022

WO#: 92651382

Project #

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

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

Options: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

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

\*Check all unpreserved Nitrates for chlorine

Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #
BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)						
BP3U-250 mL Plastic Unpreserved (N/A)						
BP2U-500 mL Plastic Unpreserved (N/A)						
BP1U-1 liter Plastic Unpreserved (N/A)						
BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)						
BP3N-250 mL plastic HNO3 (pH < 2)						
BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)						
BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)						
WGFLU-Wide-mouthed Glass Jar Unpreserved						
AG1LU-1 liter Amber Unpreserved (N/A) (Cl-)						
AG1H-1 liter Amber HCl (pH < 2)						
AG3U-250 mL Amber Unpreserved (N/A) (Cl-)						
AG1S-1 liter Amber H2SO4 (pH < 2)						
AG3S-250 mL Amber H2SO4 (pH < 2)						
DG94-40 mL Amber NH4Cl (N/A)(Cl-)						
DG9H-40 mL VOA HCl (N/A)						
VG9T-40 mL VOA Na2S2O3 (N/A)						
VG9U-40 mL VOA Unpreserved (N/A)						
DG9V-40 mL VOA H3PO4 (N/A)						
KP7U-50 mL Plastic Unpreserved (N/A)						
V/GK (3 vials per kit)-VPH/Gas kit (N/A)						
SP5T-125 mL Sterile Plastic (N/A - lab)						
SP2T-250 mL Sterile Plastic (N/A - lab)						
BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)						
AGNU-100 mL Amber Unpreserved (N/A) (Cl-)						
VSGU-20 mL Scintillation vials (N/A)						
DG9U-40 mL Amber Unpreserved vials (N/A)						

pH Adjustment Log for Preserved Samples

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

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



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO#: 92651382

Courier:  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

PM: BV Due Date: 02/22/23 CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 CW

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Cooler Temp: 4.7 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.8

USDA Regulated Soil (  N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<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 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.	
-Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/>		
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: \_\_\_\_\_



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

Effective Date: 11/14/2022

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

Project #

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

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGPU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

Empty box for Project #

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/8/23 [initials]

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID:

214

Type of Ice:

Wet  Blue  None

Cooler Temp:

4.7

Correction Factor:

Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

4.8

USDA Regulated Soil (  N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<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 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 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 type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		9.
-Includes Date/Time/ID/Analysis Matrix:	<input checked="" type="checkbox"/>		
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:





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

Effective Date: 11/14/2022

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

Project #

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

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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**pH Adjustment Log for Preserved Samples**

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

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



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

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mer

WO#: 92651382

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  UPS  USPS  Other:  Client  Pace

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:  IR Gun ID: 214 Type of Ice:  Wet  Blue  None

Cooler Temp: 2.1 Correction Factor: Add/Subtract (°C) +0.1

Cooler Temp Corrected (°C): 2.2

USDA Regulated Soil (  N/A, water sample)

Date/initials Person Examining Contents: 2/9/23 CBE  
Biological Tissue Frozen?  Yes  No  N/A

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

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

Did samples originate in a quarantine zone within the United States: CA, NY, or SC (check maps)?  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		7.
Containers Intact?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		8.
Dissolved analysis: Samples Field Filtered?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		9.
Sample Labels Match COC?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		
-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 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: \_\_\_\_\_



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

Effective Date: 11/14/2022

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

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

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

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

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A)(Cl-)	V56U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
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pH Adjustment Log for Preserved Samples

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

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



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

Effective Date: 11/14/2022

laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92651382

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

PM: BV Due Date: 02/22/23  
CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 2/9/23  
CB

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 214

Type of Ice:  Wet  Blue  None

Cooler Temp:

2.1 Correction Factor: Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

2.2

USDA Regulated Soil (  N/A, water sample)

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

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

			Comments/Discrepancy:
Chain of Custody Present?	<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:	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 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:



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

Effective Date: 11/14/2022

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

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

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

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

Project #

WO#: 92651382

PM: BV

Due Date: 02/22/23

CLIENT: GA-GA Power

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP45-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SPST-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)		
1	2	1																											
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pH Adjustment Log for Preserved Samples

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

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



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

Effective Date: 11/14/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

*G.A. Power*

Project #:

WO#: 92651382

Courier:  Fed Ex  UPS  USPS  Client  Pace  Other: \_\_\_\_\_

PM: BV Due Date: 02/22/23  
CLIENT: GA-GA Power

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: *2/9/23*  
*CB*

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?  Yes  No  N/A

Thermometer:

IR Gun ID: *214*

Type of Ice:  Wet  Blue  None

Cooler Temp: *2.1*

Correction Factor:

Add/Subtract (°C) *+0.1*

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): *2.2*

USDA Regulated Soil (  N/A, water sample)

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

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

		Comments/Discrepancy:
Chain of Custody Present?	<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 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: \_\_\_\_\_



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

Effective Date: 11/14/2022

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

Project #

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

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

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

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic Zn Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	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)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 ml. Sterile Plastic (N/A - lab)	SP2T-250 ml. Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VG6U-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)			
1		2	1																											
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11																														
12																														

pH Adjustment Log for Preserved Samples

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

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









## CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b>		<b>Requested Client Information:</b>		<b>Requested Project Information:</b>		<b>Section B</b>		<b>Invoicing Information:</b>	
Company: GA Power		Address: Atlanta, GA		Report To: SCS Contacts		Project Name: Arcadis Contacts		Company Name: Southern Co.	
Phone: 470.620.6176		Fax: 470.620.6176		Copy To: Arcadis Contacts		Task No: VAT-CR-ASSMT-202351		Address:	
Email To: jauscoke@southernco.com		Purchase Order #:		Plant Name: Plant Yates Pooled Upgradient		Plant Number:		Pilot Plant Manager: Nicole Dore-Royce	
Requested Due Date: 5/1/23		Project Number:		Plant Name: Plant Yates Pooled Upgradient		Plant Number:		Pilot Plant Manager: Nicole Dore-Royce	

ITEM #	SAMPLE ID <i>One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique</i>	MATRIX CODE (see valid codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Y/N	Residual Chlorine (Y/N)	
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3				Methanol
1	VAT-YGWA-47	WIG G				6	3	3	3							
2	VAT-YGWA-2	WIG G				6	3	3	3							
3	VAT-YGWA-4I	WIG G				6	3	3	3							
4	VAT-YGWA-SI	WIG G				6	3	3	3							
5	VAT-YGWA-5D	WIG G				6	3	3	3							
6	VAT-YGWA-17S	WIG G	2/17	1116		6	3	3	3							
7	VAT-YGWA-18S	WIG G	2/17	1348		6	3	3	3							
8	VAT-YGWA-18I	WIG G	2/17	1231		6	3	3	3							
9	VAT-YGWA-20S	WIG G				6	3	3	3							
10	VAT-YGWA-21I	WIG G				6	3	3	3							
11	VAT-YGWA-30I	WIG G				6	3	3	3							
12	VAT-YGWA-14S	WIG G				6	3	3	3							

<b>ADDITIONAL COMMENTS</b>	<b>RELINQUISHED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>ACCEPTED BY / AFFILIATION</b>	<b>DATE</b>	<b>TIME</b>	<b>SAMPLE CONDITIONS</b>
App III Metals: Boron (6020B), Ca (6010D), App III (6020B), Zn, Ag, Ni, V	Jessica Moore	2/18/23	0900	Ryan Williams	2/19/23	0900	pH: 5.47 098 pH: 5.03 009 pH: 6.00 010
App IV: Metals (6020B), Arsenic (5b), Arsenic (4a), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) (7040A), Mercury (Hg). Also add Cu, Mn, K for this event.	Ryan Williams	2/18/23	1240	Ryan Williams	2/19/23	0900	

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER: Jessica Moore - Arcadis

SIGNATURE of SAMPLER: *Jessica Moore*

DATE Signed: 2/18/23





# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**  
 Required Client Information:  
 Company: GA Power  
 Address: Atlanta, GA

Report To: SCSS Contacts  
 Copy To: Arcadis Contacts  
 Task No: VAT-COR-ASSMT-202381  
 Purchase Order #: Plant Yates Pooled Upgrade  
 Project Name:  
 Project Number:

**Section B**  
 Required Project Information:  
 Report To: SCSS Contacts  
 Copy To: Arcadis Contacts  
 Task No: VAT-COR-ASSMT-202381  
 Purchase Order #: Plant Yates Pooled Upgrade  
 Project Name:  
 Project Number:

**Section C**  
 Invoice Information:  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 Meter/Order:  
 Meter Project Manager: Nicole D'Orio  
 Meter Profile #:

Page: 1 of 2

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYZES TEST	RESIDUAL CHLORINE (Y/N)
			START DATE	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		
1	YAT-YGWA-47	WG G											X	
2	YAT-YGWA-2	WG G											X	
3	YAT-YGWA-4I	WG G											X	
4	YAT-YGWA-6I	WG G											X	
5	YAT-YGWA-8D	WG G											X	
6	YAT-YGWA-17S	WG G											X	
7	YAT-YGWA-18S	WG G											X	
8	YAT-YGWA-18I	WG G											X	
9	YAT-YGWA-20S	WG G											X	
10	YAT-YGWA-21I	WG G											X	
11	YAT-YGWA-30I	WG G											X	
12	YAT-YGWA-14S	WG G											X	

ADDITIONAL COMMENTS	REQUISITIONED BY / APPLICATION	DATE	TIME	ACCEPTED BY / APPLICATION	DATE	TIME	TEMP IN C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	ARCADIS	2/9/23	830	WILLIAMS / AOS	2/9/23	0830				
		2/9/23	920	WILLIAMS / PRA	2/9/23	0920				
		2/9/23	1235	WILLIAMS / PRA	2/9/23	1235				

**PRINT NAME OF SAMPLER:** Jacob Swanson  
**SIGNATURE OF SAMPLER:** *Jacob Swanson*  
**DATE SIGNED:** 2/9/23







# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b>		<b>Section B</b>		<b>Section C</b>	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southert Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
Email To:	laucke@gaouthertco.com	Task No.:	YAT-CR-ASMT-28235	Address:	
Process:	470.620.6176	Purchase Order #:		Price Quote:	
Requested Due Date:	2/1/23	Project Name:	Plant Yates Pooled Upgradient	Price Project Manager:	Allyson B. Grew
		Project Number:		Price Profile #:	10840
				State/Location:	Georgia

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, /, ) Sample IDs must be unique	Matrix Disturb Walk Water Waste Water Product Sediment Oil Vapor Air Soil Tissue	CODE DW WF WW P SL CX WP AP WT DT	MATRIX CODE (see valid codes to left)	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
1	YAT-YGWA-47																	
2	YAT-GWA-2																	
3	YAT-YGWA-4I																	
4	YAT-YGWA-5I																	
5	YAT-YGWA-5D																	
6	YAT-YGWA-17S																	
7	YAT-YGWA-18S																	
8	YAT-YGWA-18I																	
9	YAT-YGWA-20S																	
10	YAT-YGWA-21I																	
11	YAT-YGWA-30I																	
12	YAT-YGWA-14S																	

Additional Comments:

APPROVED BY / AFFILIATION: *Kim Lapsansky* (Arcadis) 2/10/23

ACCEPTED BY / AFFILIATION: *Kim Lapsansky* 2/10/23

DATE SIGNED: 2/10/23

TEMP IN C: \_\_\_\_\_

Received on Ice (Y/N): \_\_\_\_\_

Custody Sealed Cooler (Y/N): \_\_\_\_\_

Samples Intact (Y/N): \_\_\_\_\_

PM: BV  
 CLIENT: GR-GR Power  
 Due Date: 02/22/23

# MO#: 92651382

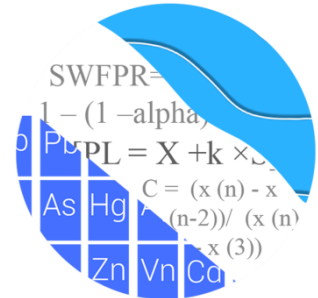
# Appendix D

## Statistical Analysis (February 2023)

**Appendix III Statistically Significant Increase Summary (February 2023)**

Appendix III Parameter	Monitoring Wells
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IA
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S
Total Dissolved Solids	YGWC-26I, YGWC-28S

# GROUNDWATER STATS CONSULTING



August 31, 2023

Southern Company Services  
Attn: Ms. Lauren Hartley  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)  
February 2023 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2023 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-2. 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-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IA

Note that well YGWC-29IA was installed as a replacement well for YGWC-29I and was first sampled in February 2023. In the current analysis, reported observations from the February 2023 sample event for Appendix III constituents at all downgradient wells are compared to interwell prediction limits for Appendix III constituents. Data from downgradient wells YGWC-29I and YGWC-29IA were combined and are plotted under well YGWC-29IA.

When a minimum of 8 samples are collected from new well YGWC-29IA, the Mann-Whitney test of medians will be used to evaluate whether the medians of both wells are statistically different for Appendix IV constituents. In cases where statistically significant differences are identified at the 99% confidence level, the historical record will be truncated so that only data from new well YGWC-29IA, which may be more representative of present-day groundwater quality, are evaluated with confidence interval comparisons to respective Groundwater Protection Standards.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician 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 well/constituent pairs containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

### **Summary of Statistical Methods – Appendix III and IV Parameters:**

Based on the background screening performed in 2017 and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the

parametric prediction 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 prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

## **Summary of Background Update – Appendix III and IV Constituents - Conducted in March 2020**

### Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. During the March 2020 1<sup>st</sup> semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

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 upgradient wells for Appendix III and all wells for Appendix IV parameters are 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, a couple outliers were identified. While this is not the case in the present data set, 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.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. 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. A summary of outlier results follows this letter (Figure C).

### Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

### Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall test was used to evaluate all data



at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters to identify statistically significant increasing or decreasing. 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 for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three 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.

### **Statistical Analysis of Appendix III Parameters – February 2023**

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. No additional outliers were flagged for Appendix III parameters.

The reported measurement of 451 mg/L for sulfate in well YGWC-27S during the March 2021 sample event was considerably higher than remaining measurements at this well; therefore, this value was flagged as outlier during the Fall 2022 statistical 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. A summary of flagged outliers follows this report (Figure C).

#### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through February 2023 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The February 2023 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) 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. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IA
- Chloride: YGWC-26I, YGWC-26S, YGWC-27I, and YGWC-28S
- TDS: YGWC-26I and YGWC-28S

#### Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

##### Increasing:

- Boron: YGWA-39 (upgradient)
- Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, and YGWA-40 (all upgradient)
- TDS: YGWA-21I and YGWA-39 (both upgradient)

##### Decreasing:

- Boron: YGWA-40 (upgradient), YGWA-47 (upgradient), and YGWC-26I
- Chloride: YGWA-3D (upgradient), YGWA-47 (upgradient), YGWA-5D (upgradient), YGWC-26I, and YGWC-26S
- TDS: YGWA-47 and YGWA-5D (both upgradient)

A complete list of trend test results and all statistically significant increasing and decreasing trends may be found following this letter in the Trend Test Summary Table.

### **Statistical Analysis of Appendix IV Parameters – February 2023**

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent pair were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% non-detects or trace values below the reporting limits do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were two orders of magnitude higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

#### Interwell Upper Tolerance Limits

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2023 for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level (or false positive rate) for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level is too small to display in the results table.

#### Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules

for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

#### Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through February 2023 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure H).

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the highest and lowest values in background as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

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. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,



Andrew T. Collins  
Project Manager



Kristina L. Rayner  
Senior Statistician

# 100% Non-Detects: Appendix IV Downgradient

Analysis Run 4/28/2023 6:30 AM View: Appendix IV  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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Antimony (mg/L)  
YGWC-28I, YGWC-28S

Beryllium (mg/L)  
YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29IA

Cadmium (mg/L)  
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L)  
YGWC-26I

Lead (mg/L)  
YGWC-27I, YGWC-28I

Lithium (mg/L)  
YGWC-26S

Molybdenum (mg/L)  
YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L)  
YGWC-27I, YGWC-27S, YGWC-29IA

Thallium (mg/L)  
YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S

# Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:20 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/9/2023	0.75	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/9/2023	0.74	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/9/2023	2.2	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/9/2023	1	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/9/2023	1.8	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/9/2023	2.3	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29IA	0.16	n/a	2/8/2023	0.9	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	2/9/2023	16.6	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	2/9/2023	15.1	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	2/9/2023	13.9	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	2/9/2023	18.1	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	222.3	n/a	2/9/2023	366	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	222.3	n/a	2/9/2023	226	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:20 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/9/2023	0.75	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/9/2023	0.74	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/9/2023	2.2	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/9/2023	1	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/9/2023	1.8	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/9/2023	2.3	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29IA	0.16	n/a	2/8/2023	0.9	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	2/9/2023	15.8	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/9/2023	10.7	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/9/2023	26.9	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/9/2023	20.1	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/9/2023	27.7	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/9/2023	33.1	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29IA	37	n/a	2/8/2023	11.9	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	2/9/2023	16.6	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	2/9/2023	15.1	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	2/9/2023	13.9	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12	n/a	2/9/2023	11.5	No	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	12	n/a	2/9/2023	11.5	No	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	2/9/2023	18.1	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29IA	12	n/a	2/8/2023	10.4	No	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/9/2023	0.088J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/9/2023	0.07J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/9/2023	0.1	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/9/2023	0.12	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/9/2023	0.14	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/9/2023	0.18	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29IA	0.68	n/a	2/8/2023	0.092J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/9/2023	5.76	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/9/2023	5.64	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/9/2023	6.48	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/9/2023	6.64	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/9/2023	6.7	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/9/2023	6.87	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29IA	8.39	4.4	2/8/2023	6.67	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/9/2023	84.2	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/9/2023	89.7	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/9/2023	3.2	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/9/2023	13.7	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/9/2023	7.4	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/9/2023	16	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29IA	160	n/a	2/8/2023	23.7	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWC-26I</b>	<b>222.3</b>	<b>n/a</b>	<b>2/9/2023</b>	<b>366</b>	<b>Yes</b>	<b>369</b>	<b>10.11</b>	<b>2.582</b>	<b>0.542</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.001075</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids (mg/L)	YGWC-26S	222.3	n/a	2/9/2023	196	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	222.3	n/a	2/9/2023	189	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	222.3	n/a	2/9/2023	116	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	222.3	n/a	2/9/2023	184	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWC-28S</b>	<b>222.3</b>	<b>n/a</b>	<b>2/9/2023</b>	<b>226</b>	<b>Yes</b>	<b>369</b>	<b>10.11</b>	<b>2.582</b>	<b>0.542</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.001075</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids (mg/L)	YGWC-29IA	222.3	n/a	2/8/2023	158	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2



# Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:25 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWC-26I	-0.04137	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.04106	-83	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3475	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.4875	-94	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4206	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.6176	144	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.09536	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1082	121	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.38	82	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.6898	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.3022	89	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:25 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0006705	-53	-81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001404	46	81	No	20	40	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-3	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-2	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-16	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	8	81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-15	-81	No	20	90	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>YGWC-26I</b>	<b>-0.04137</b>	<b>-100</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	YGWC-26S	0.01502	71	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.05704	65	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.05038	-70	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	-0.05963	-35	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	-0.01236	-14	-81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-0.0007791</b>	<b>-66</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	YGWA-17S (bg)	0.0003162	37	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-18	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0004242	39	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-7	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-48	-81	No	20	60	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>0.0181</b>	<b>75</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>5.882</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-0.01412</b>	<b>-91</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	YGWA-4I (bg)	0	7	81	No	20	70	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0004226	48	81	No	20	15	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-18	-81	No	20	65	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	29	68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29IA	-0.02155	-74	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1256	62	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-23	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	0	-27	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21 (bg)	-0.01591	-28	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>-0.04106</b>	<b>-83</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-3I (bg)	-0.02711	-72	-81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWC-26I</b>	<b>-0.3475</b>	<b>-90</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>YGWC-26S</b>	<b>-0.4875</b>	<b>-94</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWC-27I	0	-20	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.2424	-58	-81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-0.4206</b>	<b>-96</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.6176</b>	<b>144</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>YGWA-18I (bg)</b>	<b>0.09536</b>	<b>88</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-18S (bg)	0.1291	65	81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-20S (bg)</b>	<b>0.1082</b>	<b>121</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-21I (bg)	-0.08464	-55	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.764	61	63	No	17	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>0.38</b>	<b>82</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-4I (bg)	0.07352	53	81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-0.6898</b>	<b>-139</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-5I (bg)	0.01678	22	81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>0.3022</b>	<b>89</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.3652	16	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.029	32	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-11 (bg)	-1.086	-18	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21 (bg)	-0.8152	-19	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.488	24	81	No	20	10	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	0.3218	7	81	No	20	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:25 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.862	9	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-26I	1.044	13	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-28S	-0.2581	-3	-81	No	20	5	n/a	n/a	0.01	NP
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-13.38</b>	<b>-101</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	2.621	47	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.319	-26	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.3933	9	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	51	81	No	20	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWA-21I (bg)</b>	<b>11.42</b>	<b>85</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>29.24</b>	<b>74</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-7.039	-48	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.9669	14	81	No	20	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-11.59</b>	<b>-90</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-0.8043	-16	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	17.72	66	68	No	18	0	n/a	n/a	0.01	NP

# Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 391	n/a	n/a	87.98	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 439	n/a	n/a	74.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	n/a 439	n/a	n/a	2.506	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	n/a 423	n/a	n/a	79.43	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 423	n/a	n/a	94.56	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 391	n/a	n/a	80.05	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 433	n/a	n/a	69.05	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 418	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 438	n/a	n/a	64.16	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 393	n/a	n/a	86.01	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 418	n/a	n/a	25.84	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 347	n/a	n/a	91.93	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 382	n/a	n/a	60.99	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 421	n/a	n/a	92.64	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 357	n/a	n/a	97.2	n/a	n/a	NaN	NP Inter(NDs)

<b>YATES ASH POND 2 GWPS</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*\*Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residual*

*\*GWPS = Groundwater Protection Standard*

# Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	No	19	0.002637	0.0008647	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	19	0.002858	0.000426	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.0014	0.006	No	19	0.002775	0.0006964	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	19	0.002858	0.0006194	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29IA	0.003	0.0013	0.006	No	19	0.002911	0.00039	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	23	0.004791	0.0006941	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	23	0.0048	0.0006796	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00069	0.01	No	23	0.003454	0.002085	60.87	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	23	0.004865	0.0006464	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	23	0.004874	0.0006047	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	23	0.003466	0.002081	60.87	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29IA	0.005	0.0033	0.01	No	23	0.004926	0.0003545	95.65	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06563	0.06194	2	No	23	0.06379	0.003527	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02854	0.02623	2	No	23	0.02739	0.002204	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07463	0.0667	2	No	23	0.07067	0.00758	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27S	0.102	0.08549	2	No	23	0.09249	0.01787	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08871	0.08122	2	No	23	0.08496	0.007161	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2208	0.1972	2	No	23	0.2048	0.03598	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29IA	0.0741	0.057	2	No	23	0.07294	0.03173	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.000093	0.004	No	21	0.0002668	0.0004126	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00022	0.00012	0.004	No	21	0.0003555	0.0004811	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	21	0.0004608	0.0001241	90.48	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0002765	0.00014	0.005	No	21	0.0002205	0.0001386	14.29	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	21	0.000499	0.00004364	95.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29IA	0.00029	0.00019	0.005	No	21	0.0003586	0.0003776	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.005	0.00067	0.1	No	21	0.003545	0.002101	61.9	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002057	0.001062	0.1	No	21	0.002809	0.001791	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	21	0.005333	0.001528	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	No	21	0.004688	0.002859	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	21	0.004353	0.001624	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0034	0.1	No	21	0.004285	0.001609	80.95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29IA	0.005	0.0005	0.1	No	21	0.004786	0.000982	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002505	0.001929	0.035	No	23	0.002217	0.0005507	4.348	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.014	0.003676	0.035	No	23	0.01653	0.02472	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.002443	0.002109	0.035	No	23	0.002257	0.0003488	4.348	None	x^2	0.01	Param.
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	23	0.004801	0.000955	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0011	0.00085	0.035	No	23	0.001104	0.0004649	8.696	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29IA	0.005	0.00094	0.035	No	23	0.004059	0.001861	73.91	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.024	0.4815	6.92	No	22	0.7528	0.5056	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8233	0.533	6.92	No	23	0.6781	0.2775	4.348	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.783	2.556	6.92	No	23	3.17	1.173	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.993	0.603	6.92	No	23	0.798	0.3729	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	23	0.6377	0.3543	4.348	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9088	0.5189	6.92	No	23	0.7138	0.3728	4.348	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29IA	1.064	0.6519	6.92	No	23	0.8577	0.3935	4.348	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	24	0.08417	0.01976	41.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	No	24	0.1254	0.09215	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.07	4	No	24	0.1913	0.1134	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.1761	0.09377	4	No	24	0.1544	0.0975	16.67	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.29	0.078	4	No	24	0.165	0.1031	20.83	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2412	0.1576	4	No	24	0.2054	0.09014	8.333	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-29IA	0.17	0.059	4	No	24	0.1445	0.1057	29.17	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	19	0.0009005	0.000298	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	No	19	0.0007553	0.0004209	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	No	19	0.0008104	0.0003457	68.42	None	No	0.01	NP (NDs)

# Confidence Intervals - All Results (No Significant)

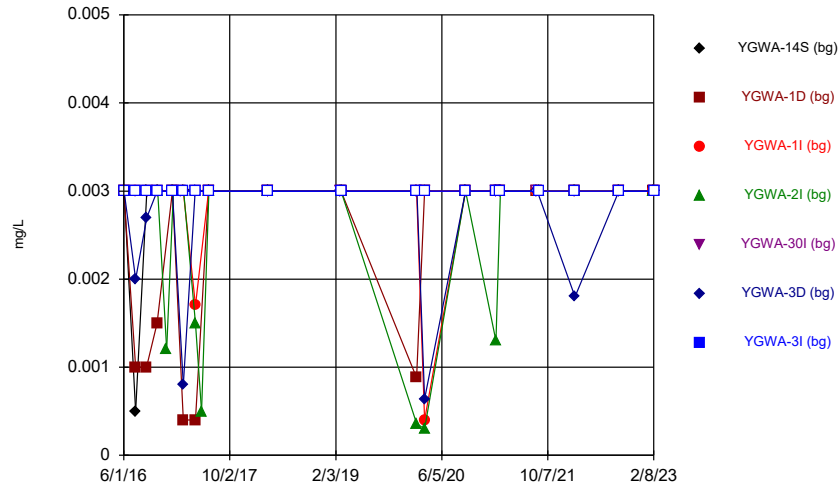
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	No	19	0.0007534	0.000424	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29IA	0.001	0.00016	0.015	No	19	0.000859	0.0003349	84.21	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007325	0.006675	0.04	No	23	0.007	0.0006216	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009857	0.007752	0.04	No	23	0.008804	0.002013	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	23	0.02748	0.008339	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.00706	0.00667	0.04	No	23	0.006865	0.0003725	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	23	0.02893	0.00515	95.65	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29IA	0.0066	0.0053	0.04	No	23	0.006583	0.002369	4.348	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	17	0.0001825	0.00004948	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	17	0.0001832	0.00004742	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	17	0.0001823	0.00005001	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	No	17	0.0001812	0.00005133	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	17	0.0001911	0.00003687	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	17	0.0001913	0.0000359	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29IA	0.0002	0.000047	0.002	No	17	0.0001815	0.00005216	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	No	23	0.005322	0.004235	43.48	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	23	0.004665	0.004375	39.13	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	23	0.007588	0.004151	73.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29IA	0.01	0.00099	0.1	No	23	0.00921	0.002619	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.003091	0.002049	0.05	No	21	0.0027	0.001104	9.524	None	ln(x)	0.01	Param.
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	21	0.004252	0.001592	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	21	0.004819	0.0008292	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	21	0.00481	0.0008729	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	17	0.0008889	0.0003135	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	17	0.0006841	0.0004409	64.71	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-29IA	0.001	0.00021	0.002	No	17	0.0009535	0.0001916	94.12	None	No	0.01	NP (NDs)

FIGURE A.

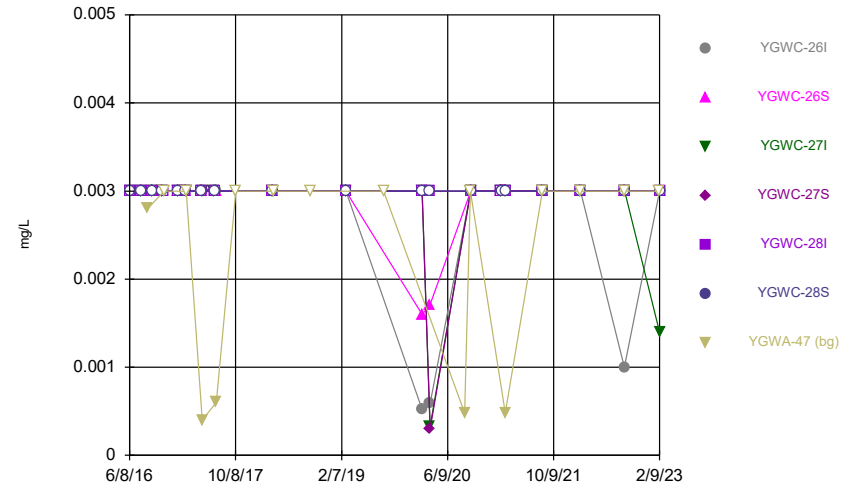


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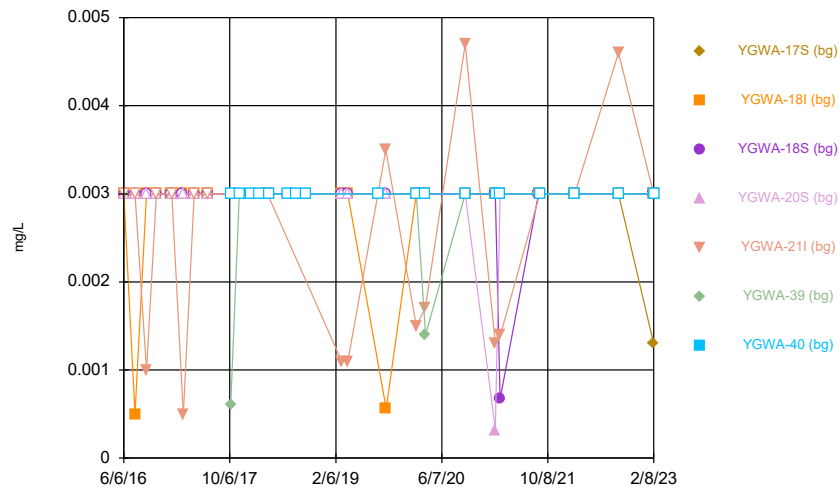
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



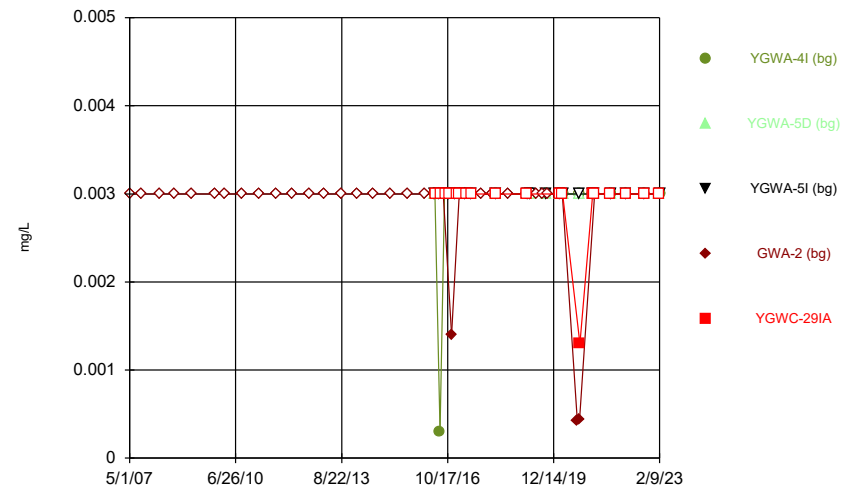
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Time Series



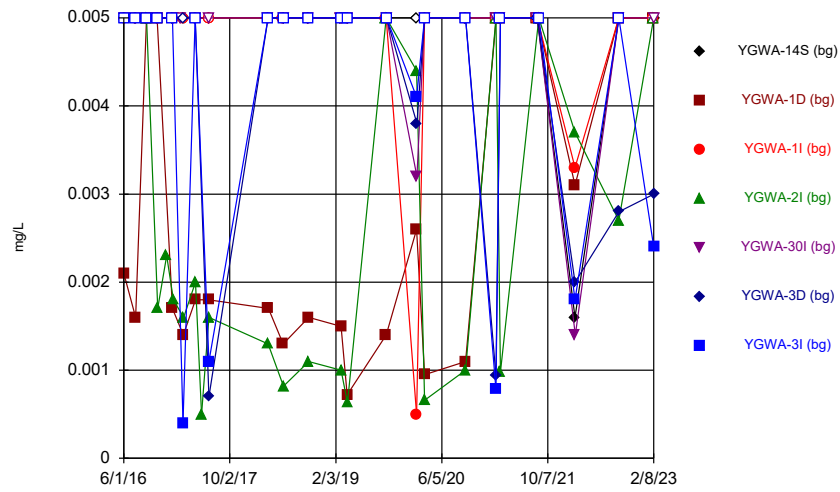
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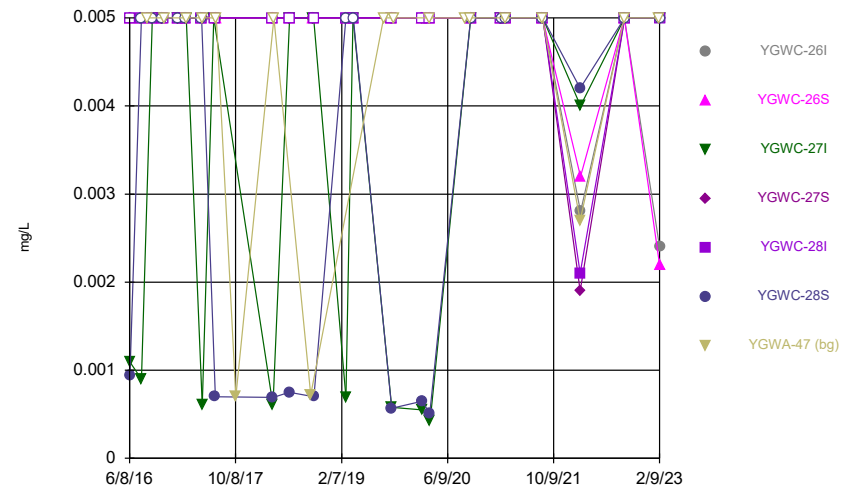
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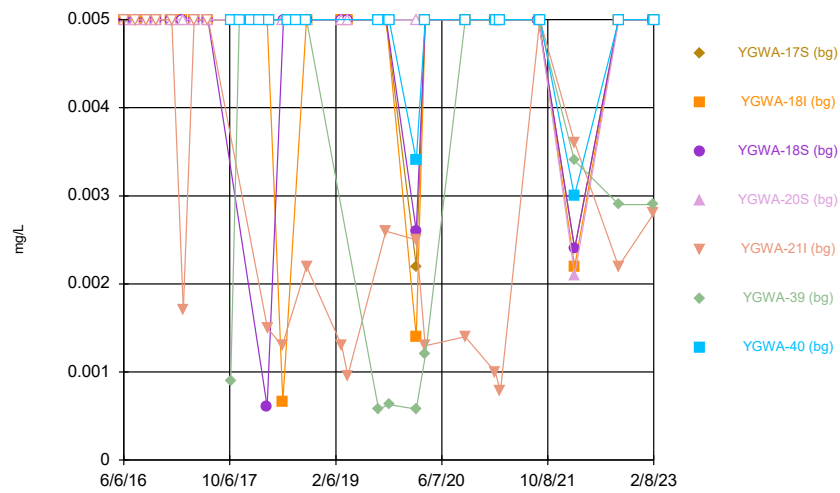
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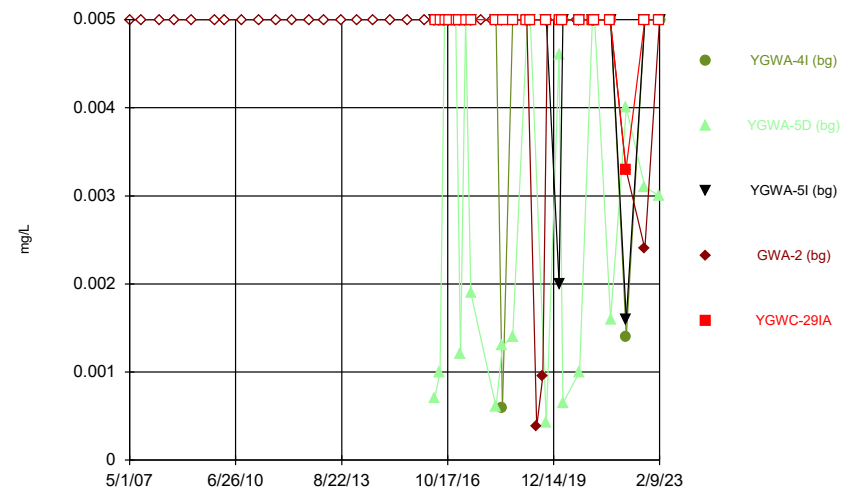
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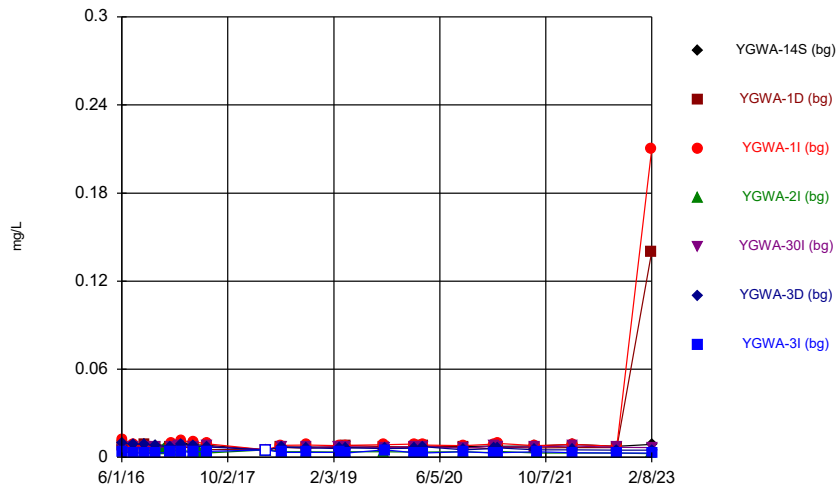
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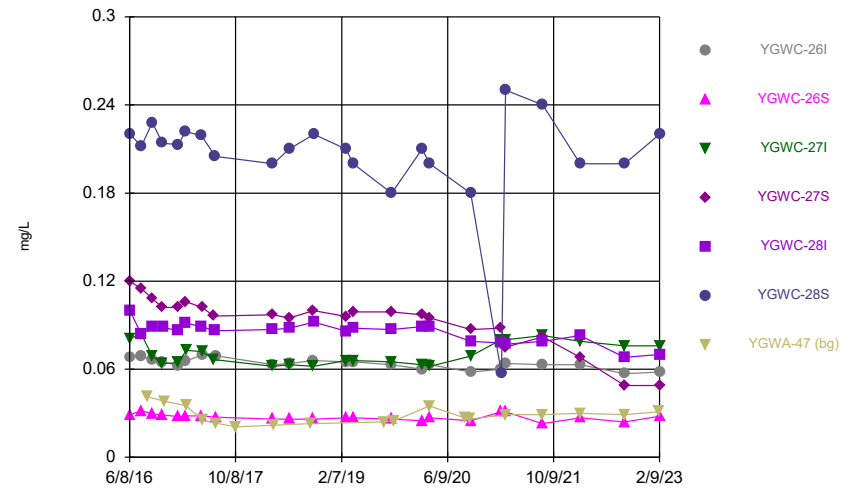
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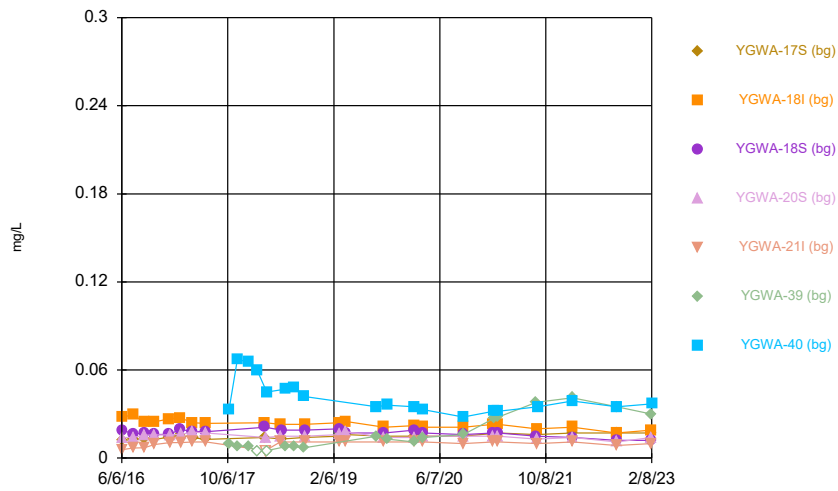
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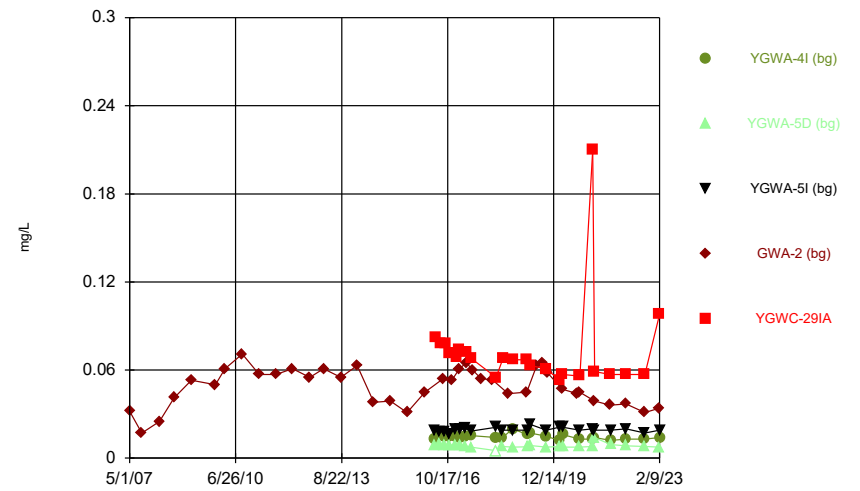
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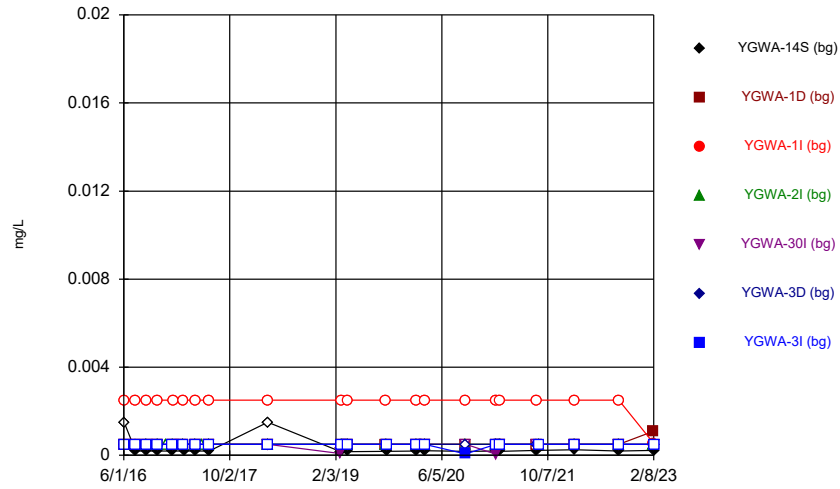
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Time Series



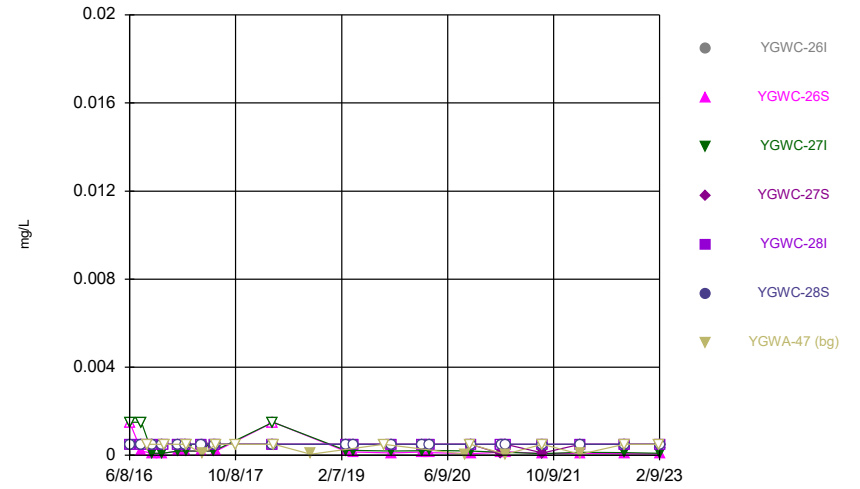
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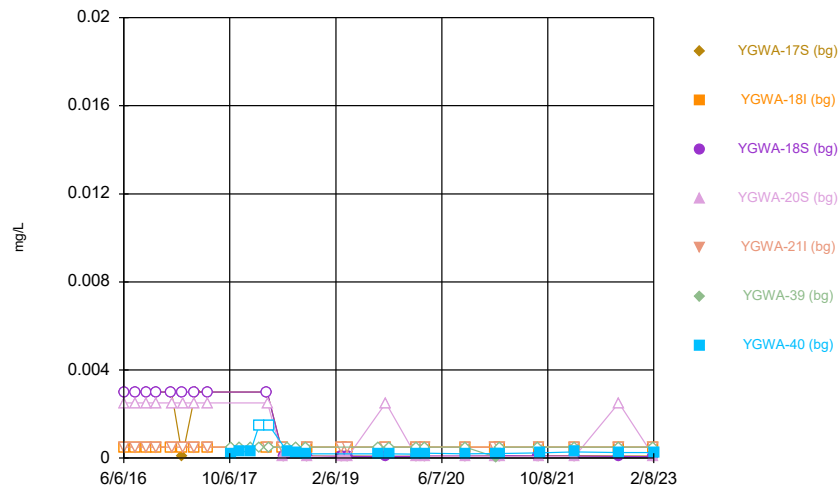
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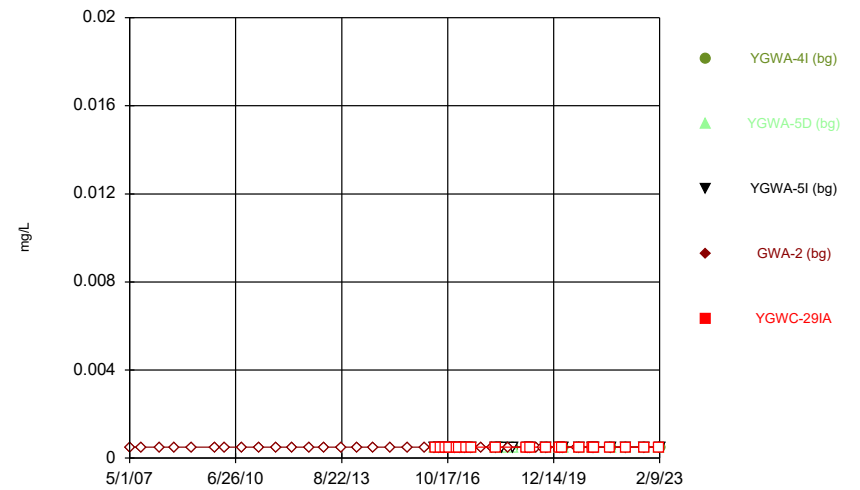
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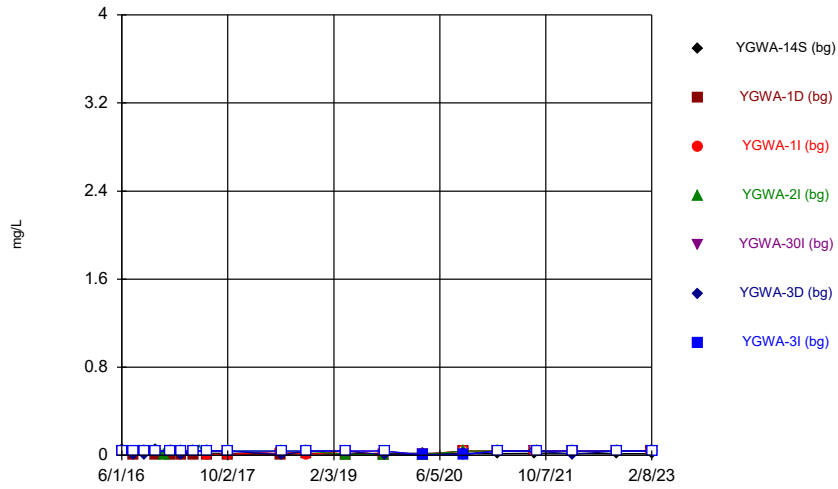
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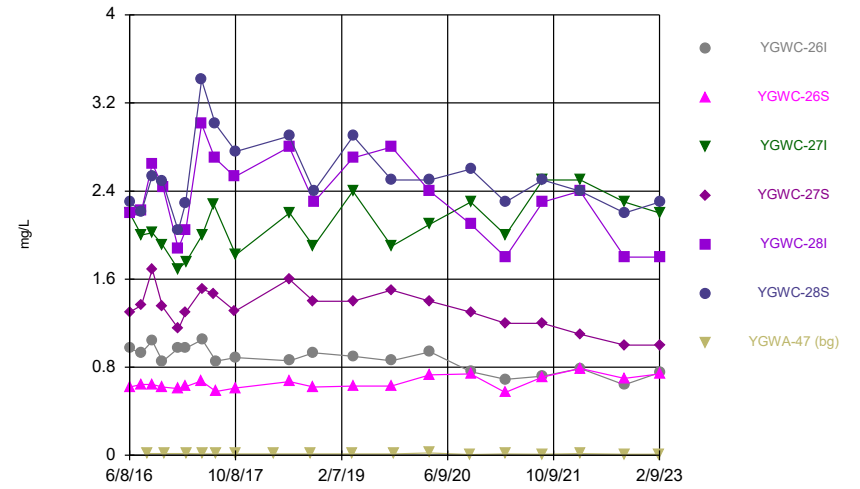
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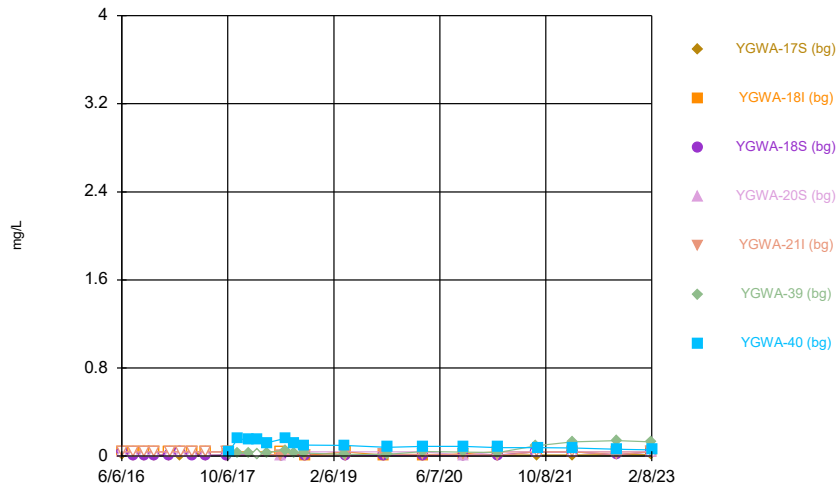
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### Time Series



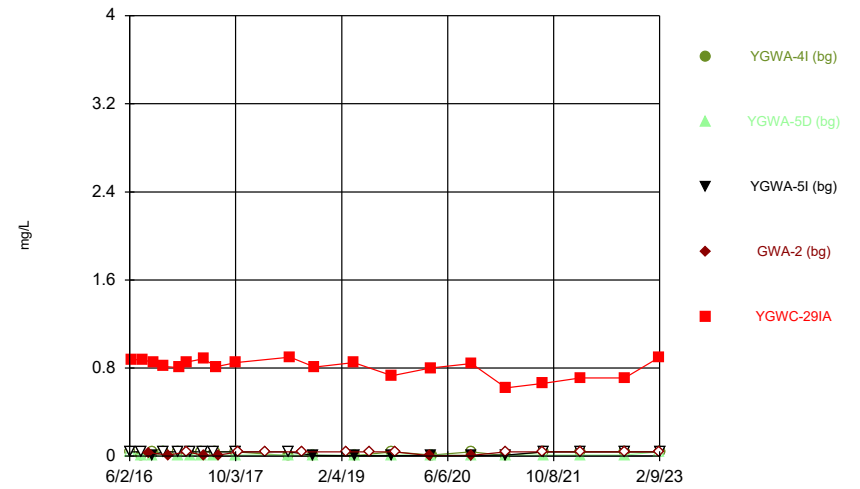
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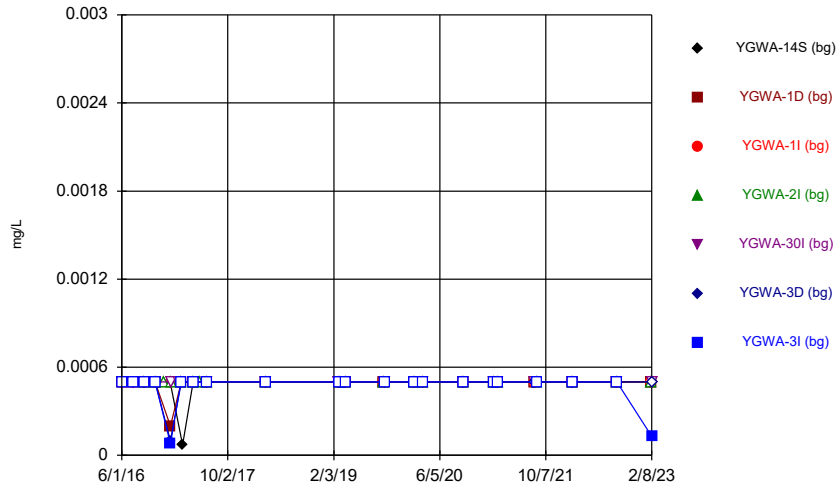
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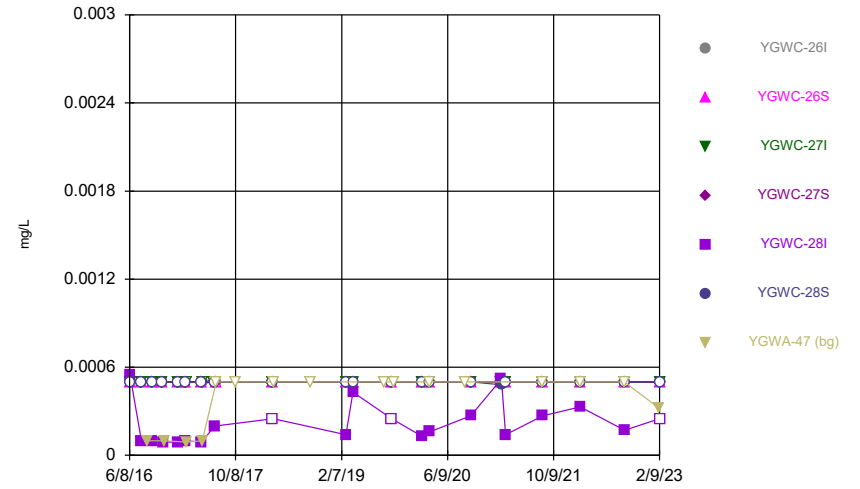
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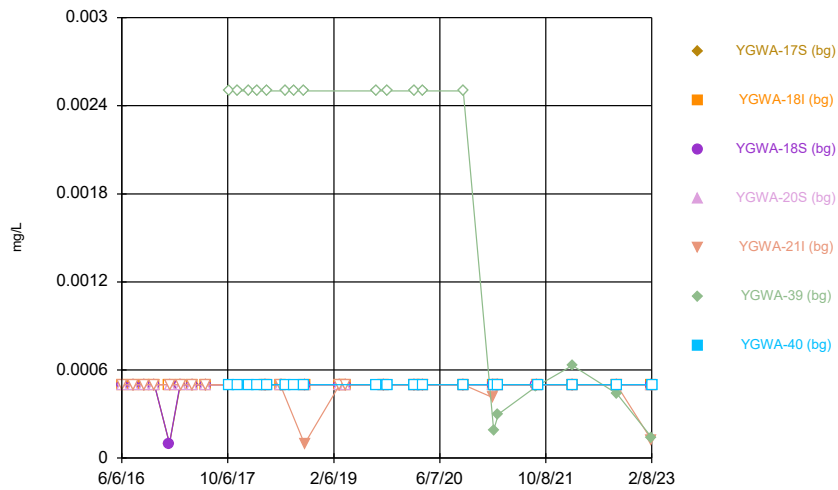
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Time Series



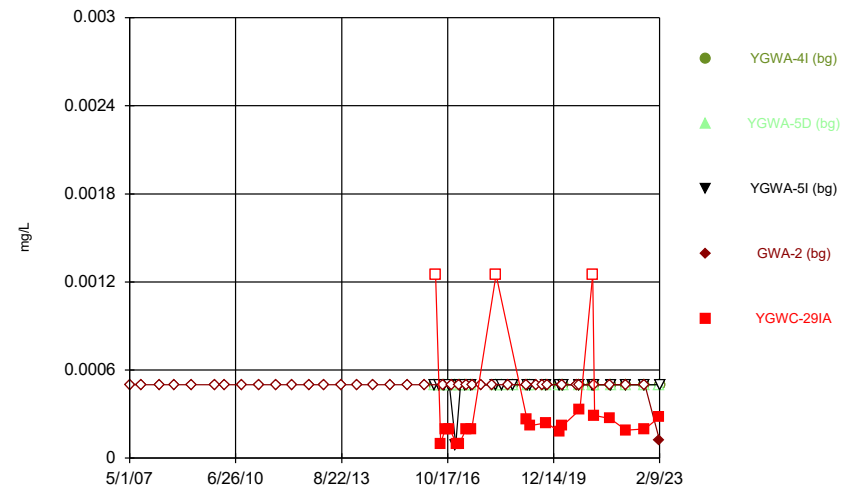
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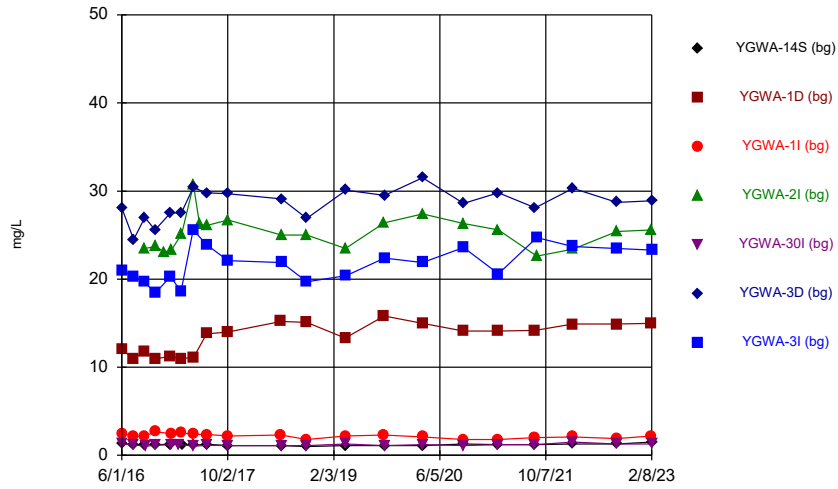
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Time Series



Constituent: Cadmium Analysis Run 4/27/2023 10:22 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

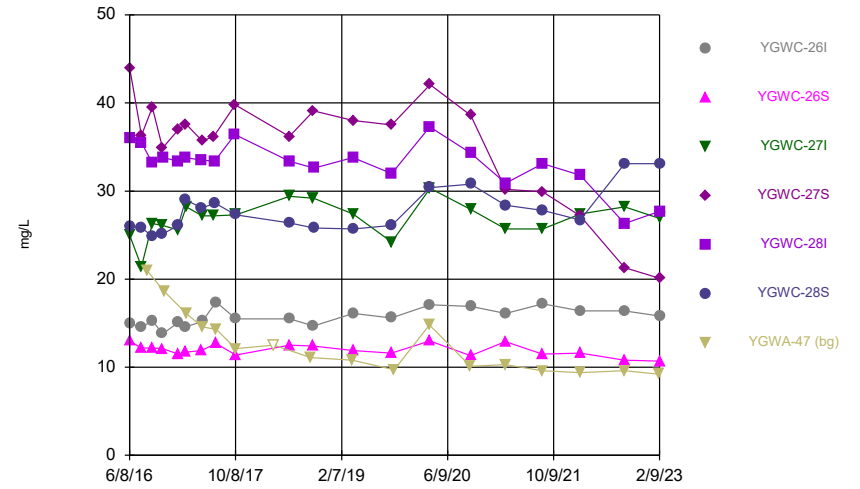
Time Series



Constituent: Calcium Analysis Run 4/27/2023 10:22 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

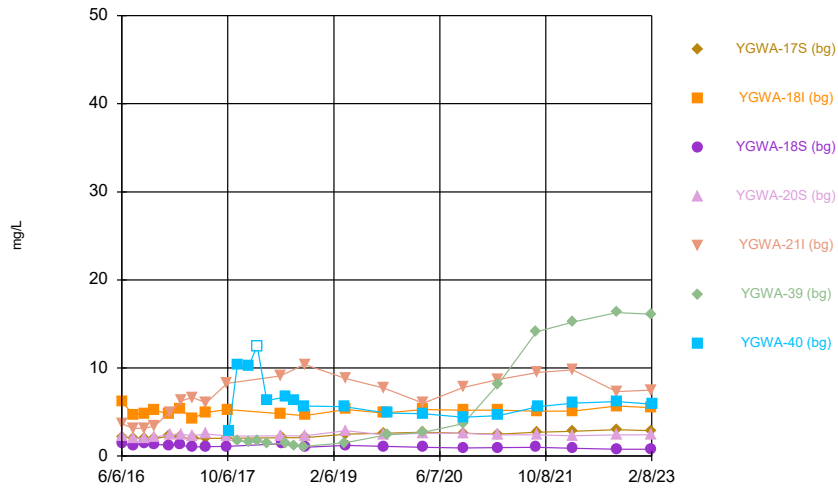
Time Series



Constituent: Calcium Analysis Run 4/27/2023 10:22 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

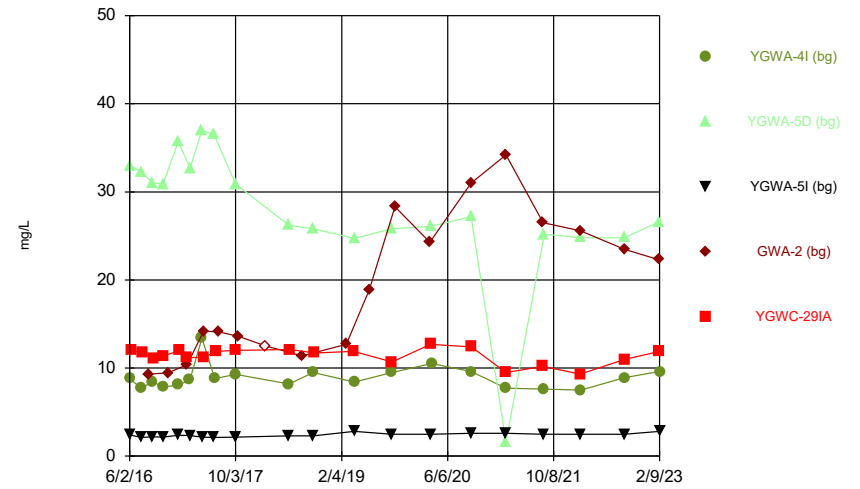
Time Series



Constituent: Calcium Analysis Run 4/27/2023 10:22 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

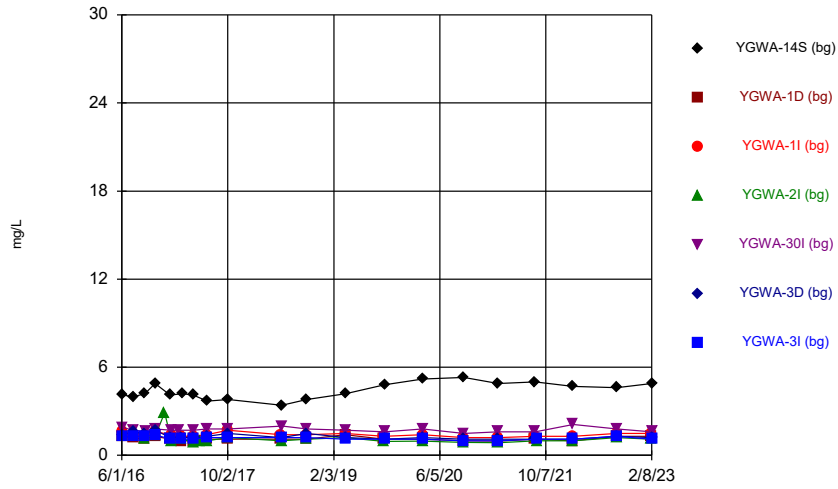
Hollow symbols indicate censored values.

Time Series



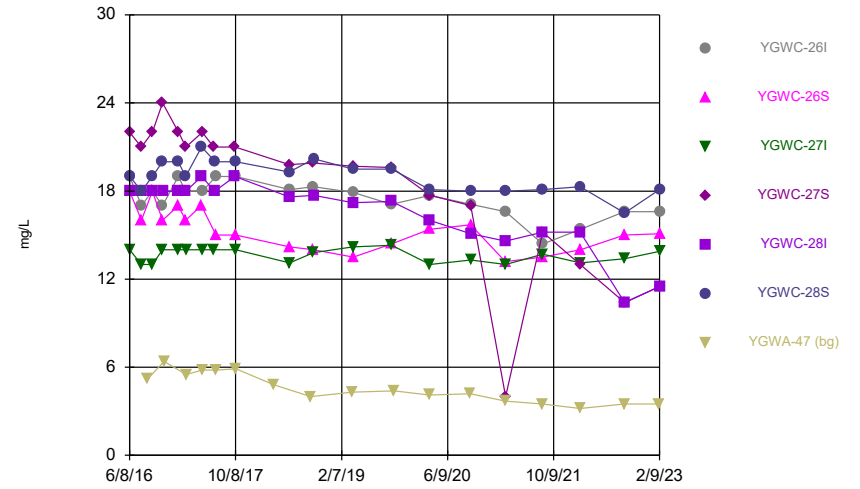
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



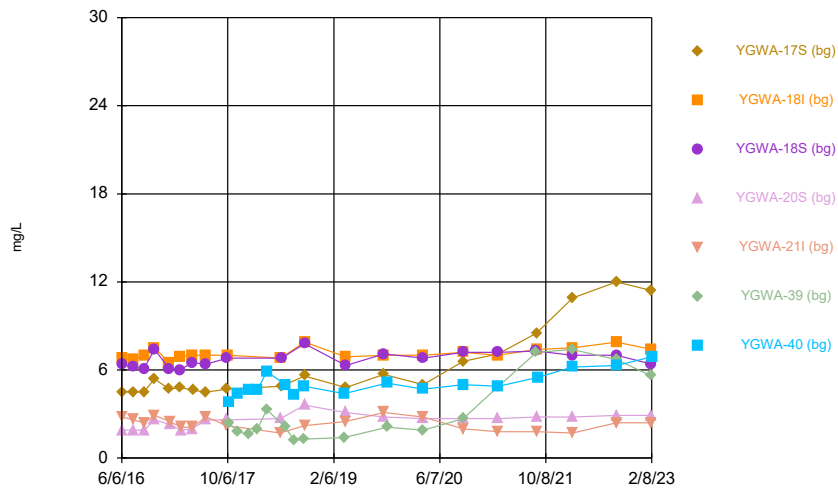
Constituent: Chloride Analysis Run 4/27/2023 10:22 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



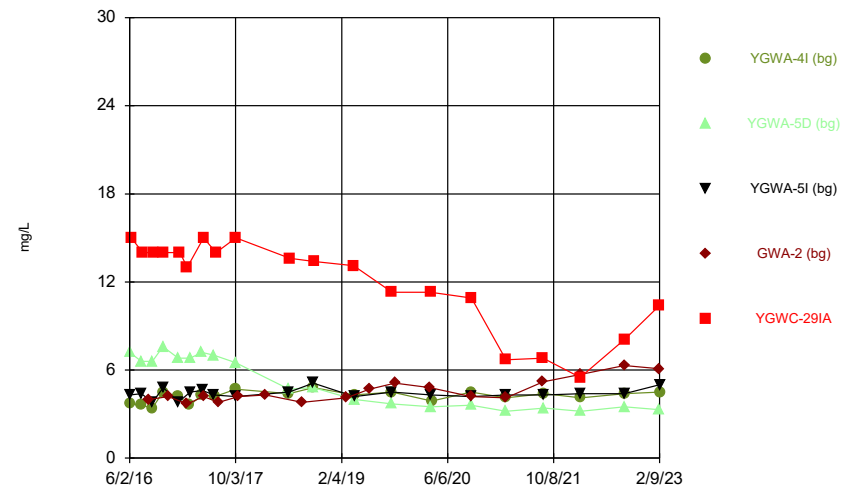
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Chloride Analysis Run 4/27/2023 10:22 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

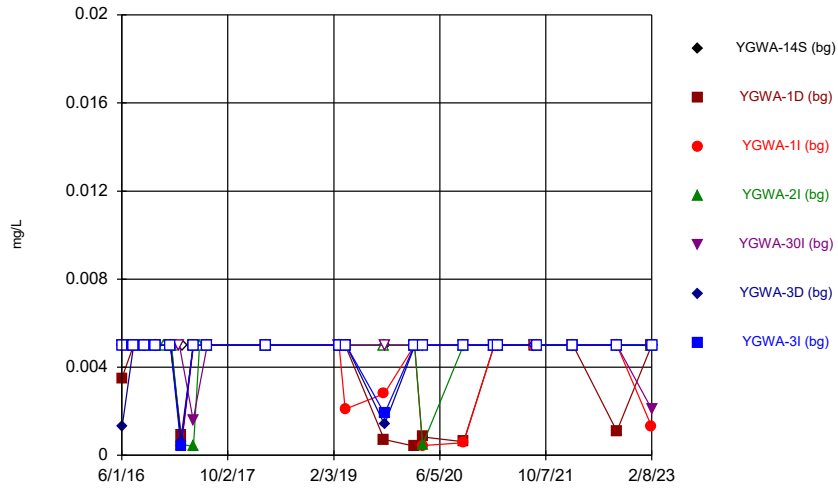
Time Series



Constituent: Chloride Analysis Run 4/27/2023 10:22 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

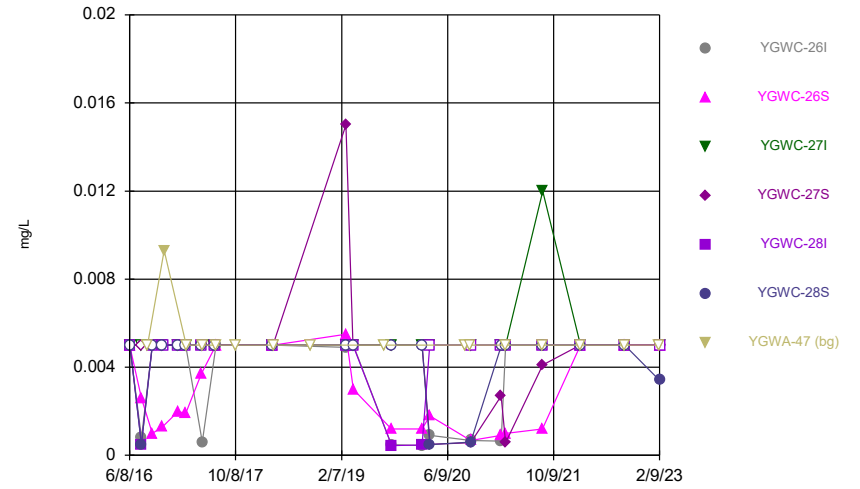


### Time Series



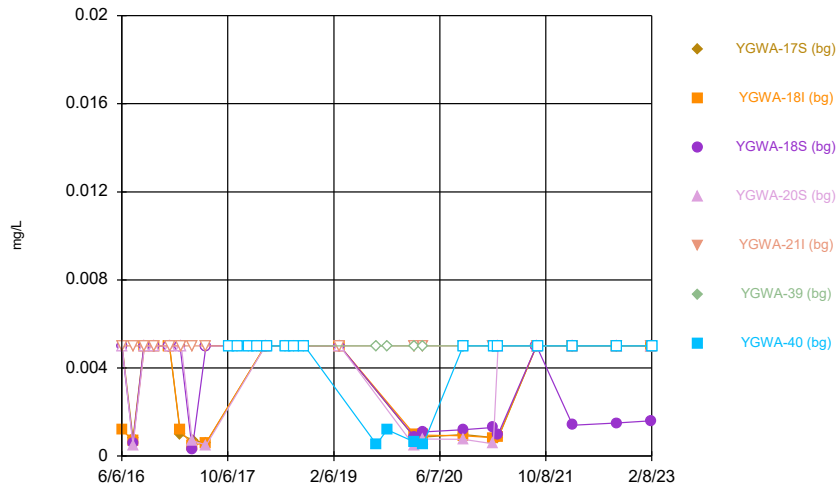
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



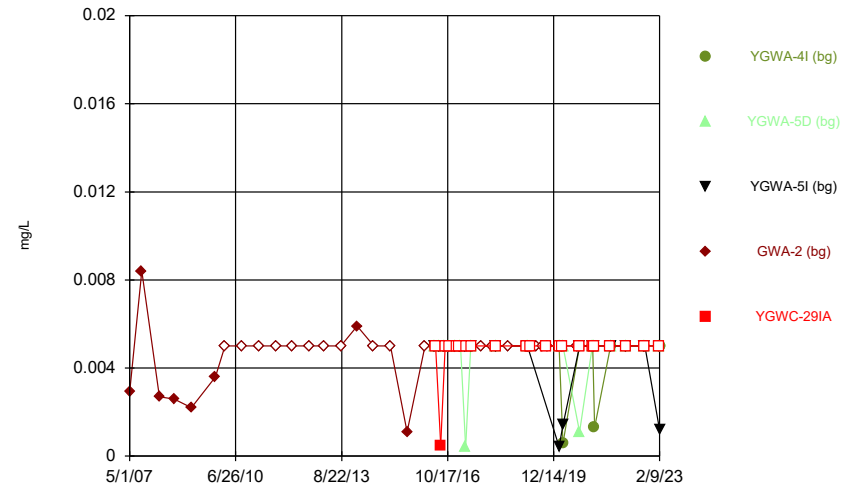
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



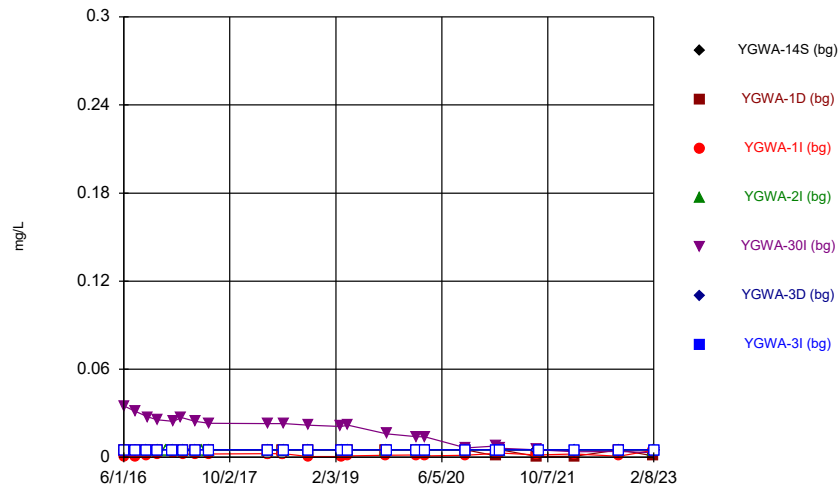
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



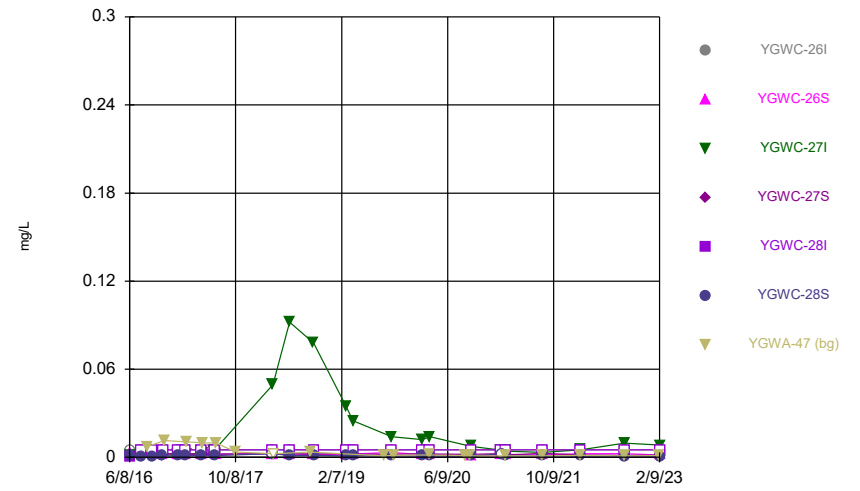
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



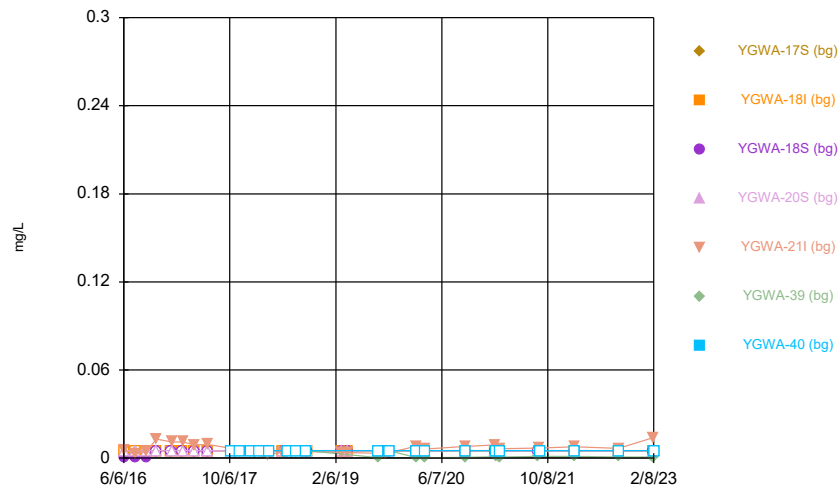
Constituent: Cobalt Analysis Run 4/27/2023 10:22 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



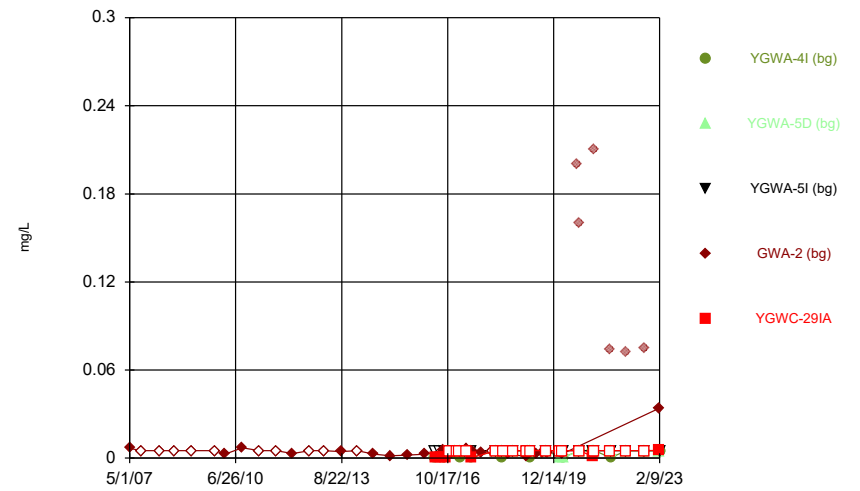
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



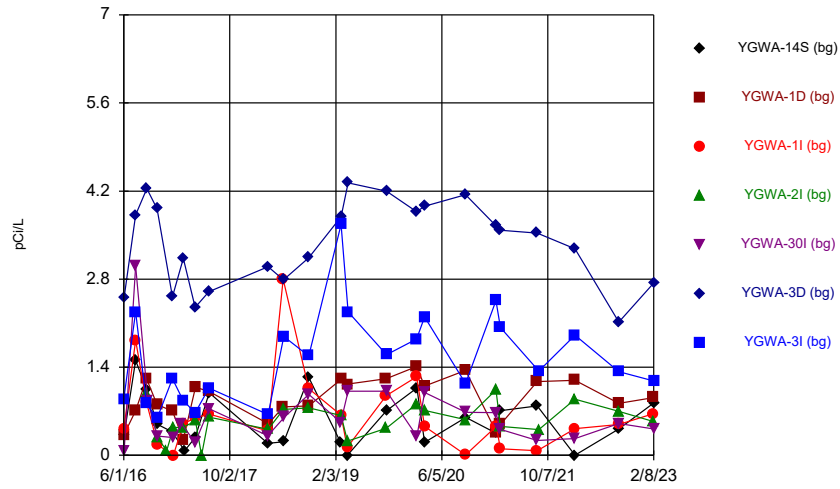
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



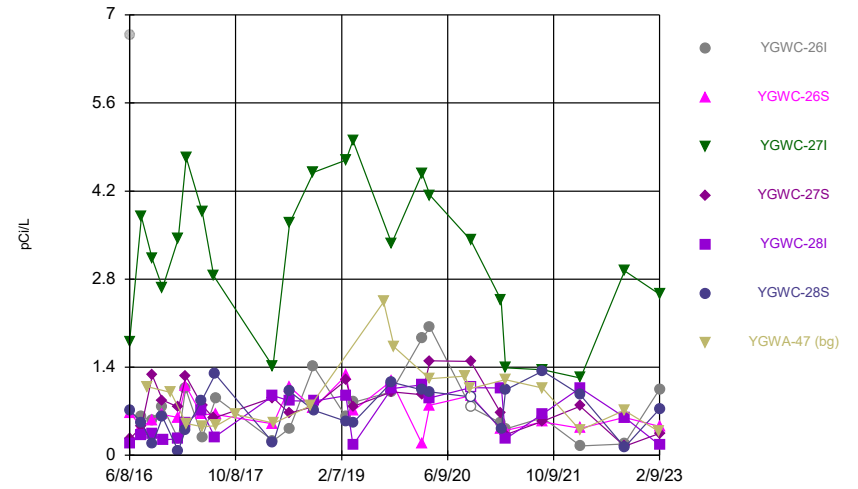
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



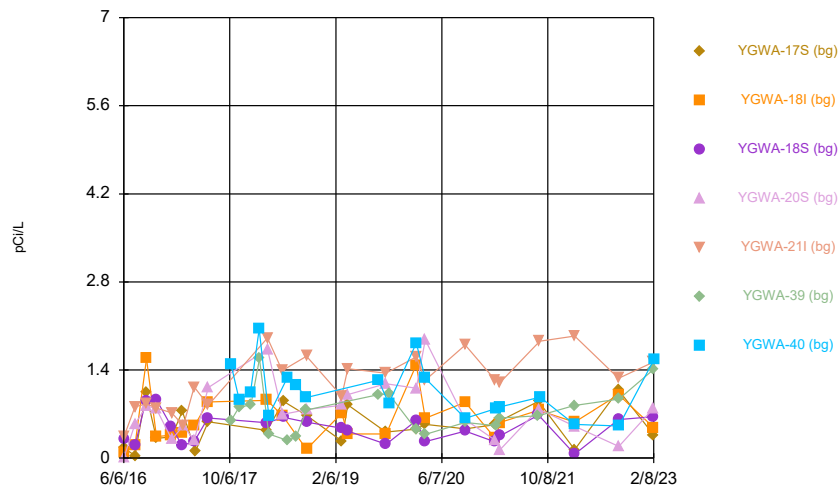
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



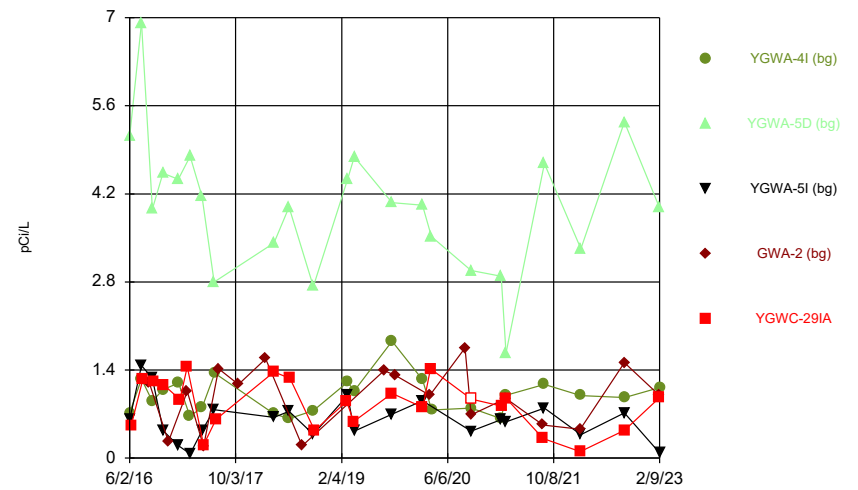
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



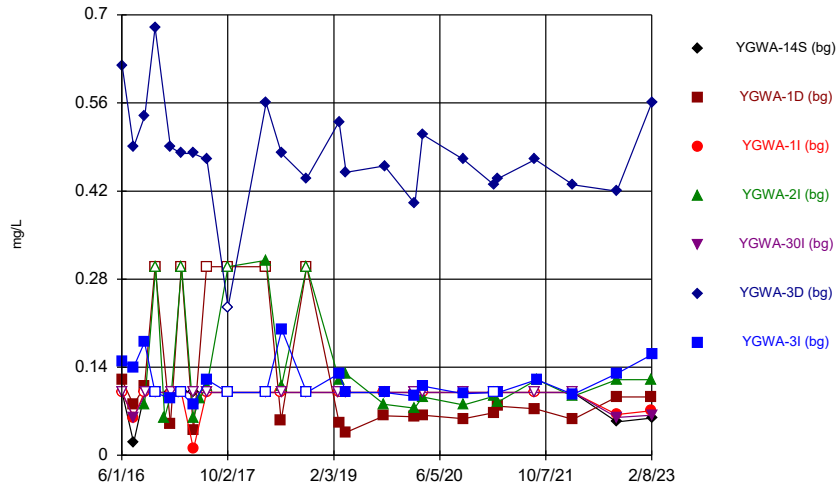
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



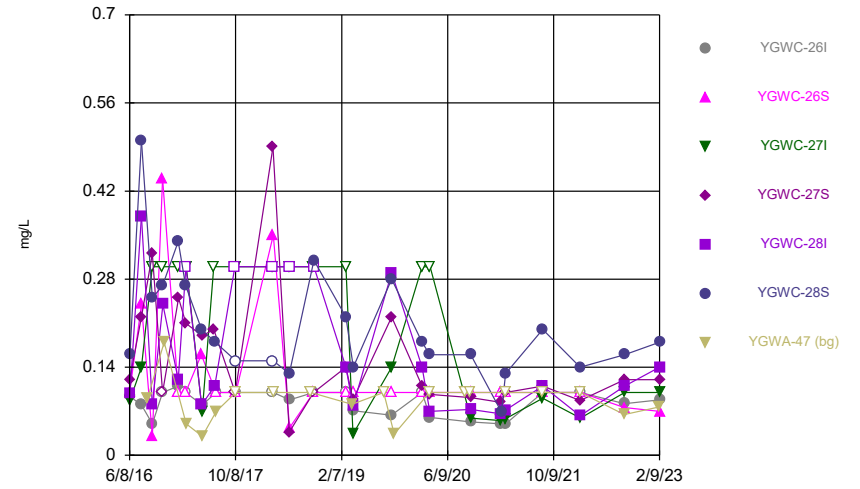
Constituent: Combined Radium 226 + 228 Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



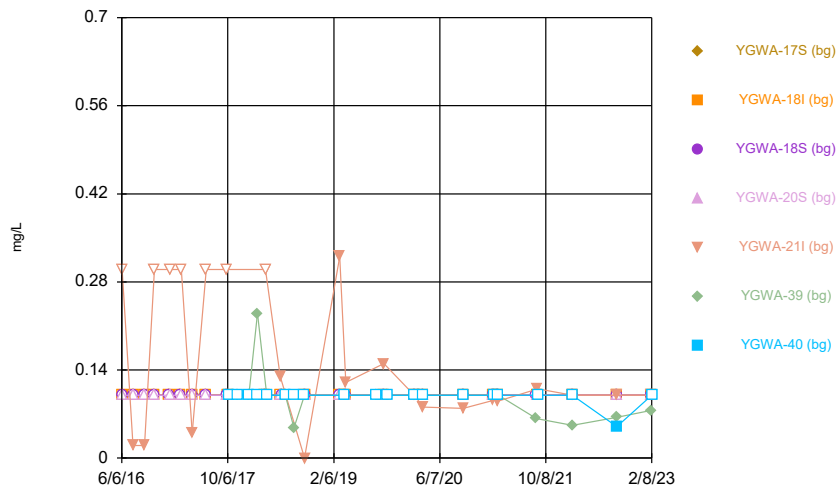
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



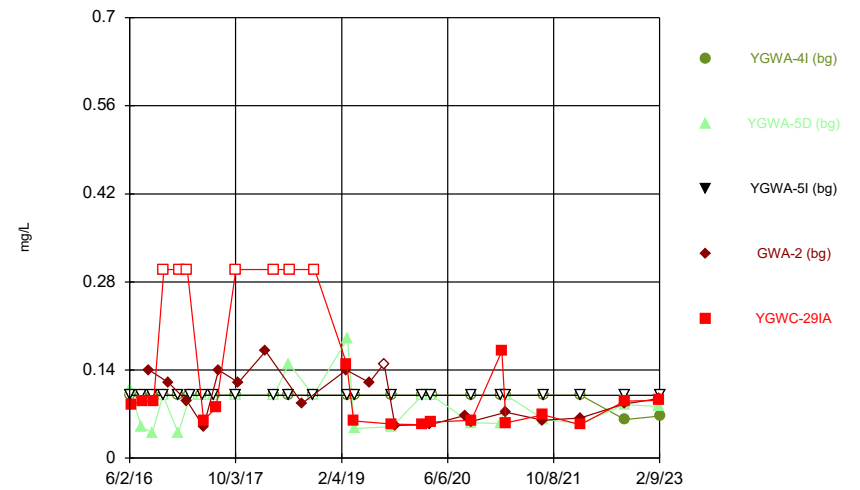
Constituent: Fluoride Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



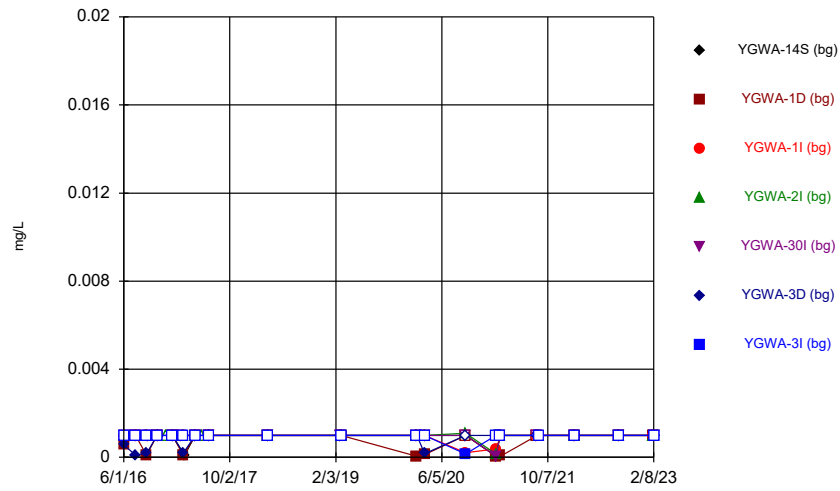
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



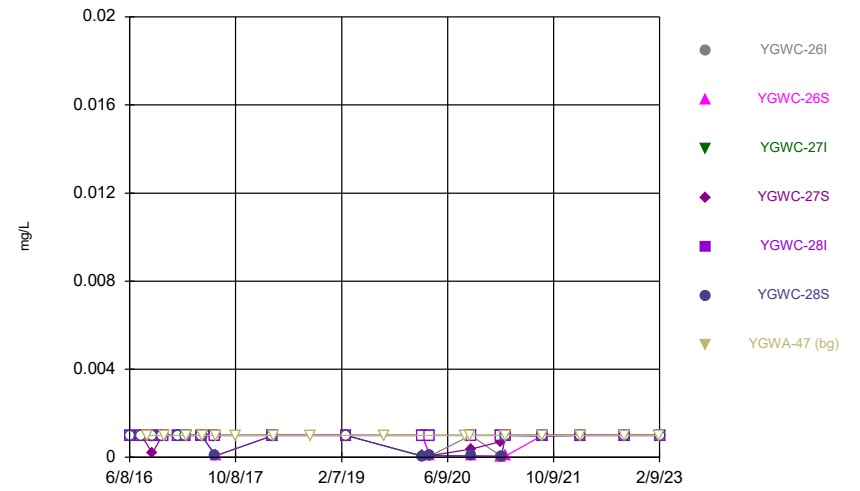
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



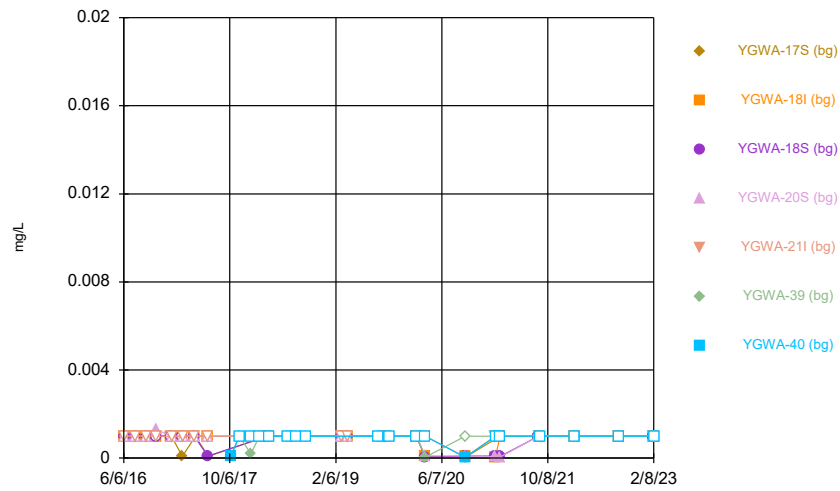
Constituent: Lead Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



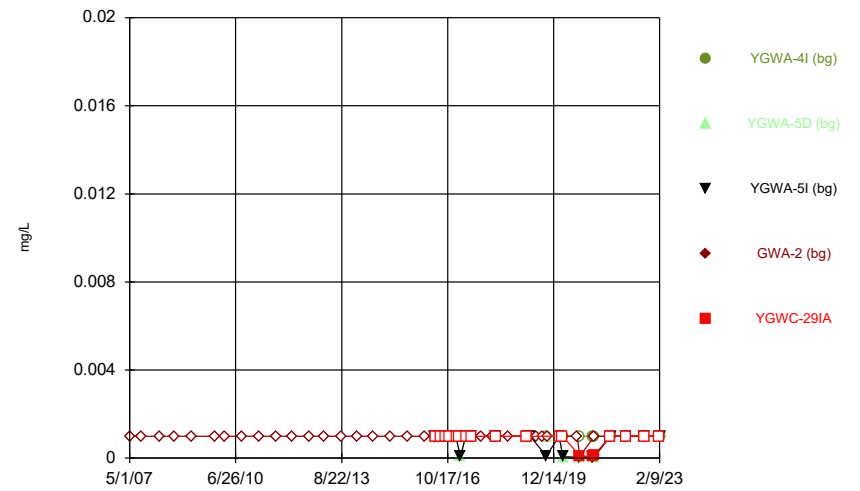
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Time Series



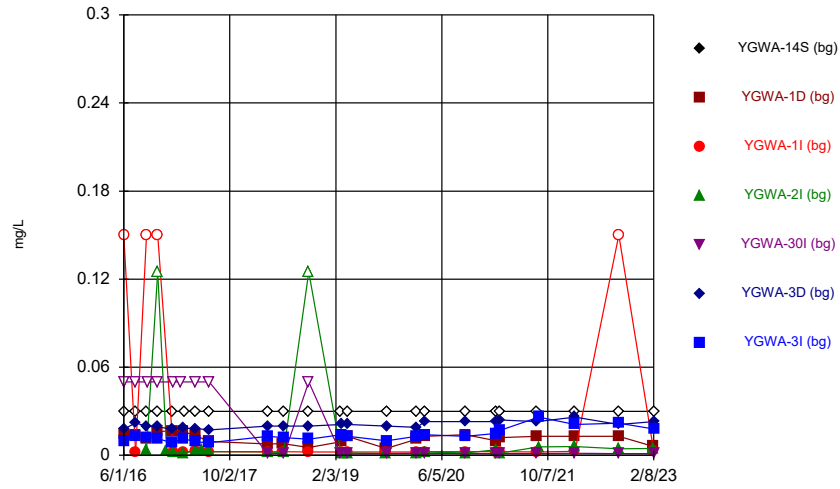
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



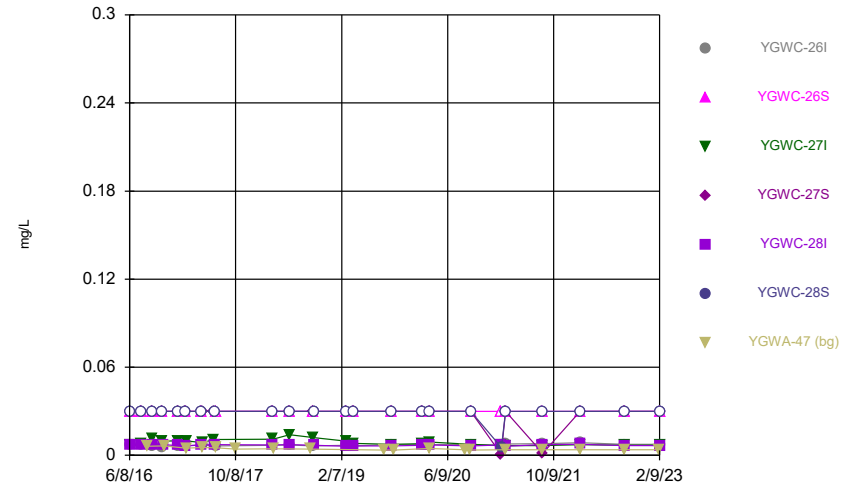
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



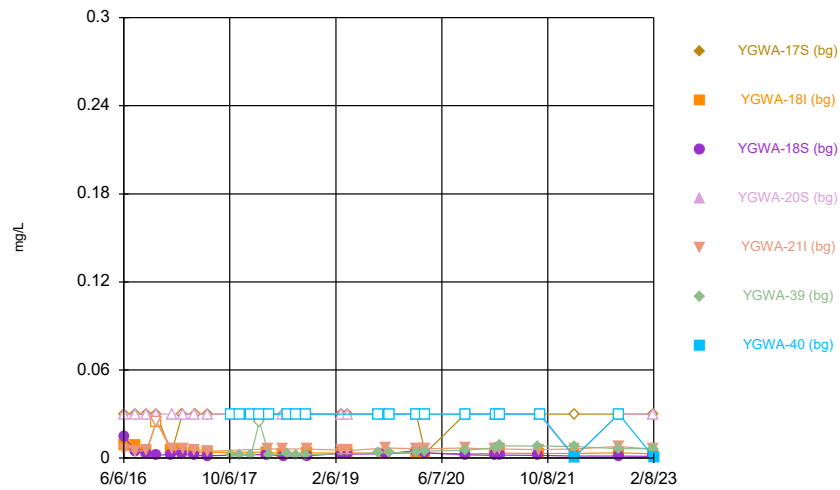
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



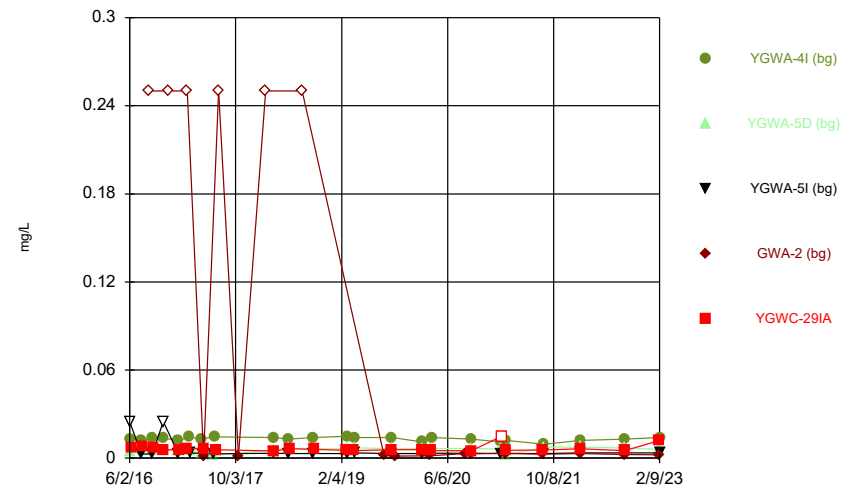
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Time Series



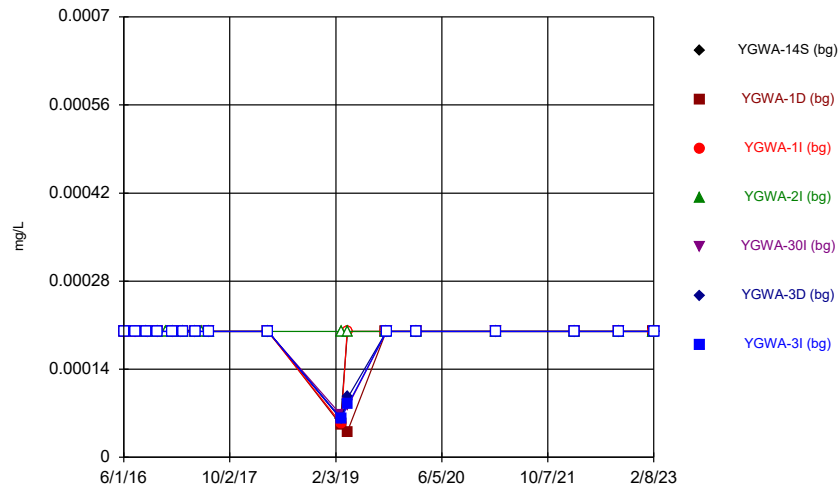
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



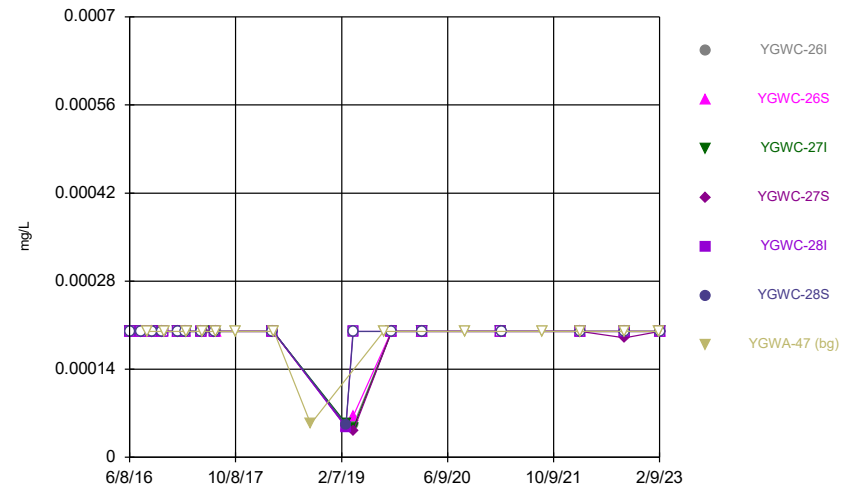
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



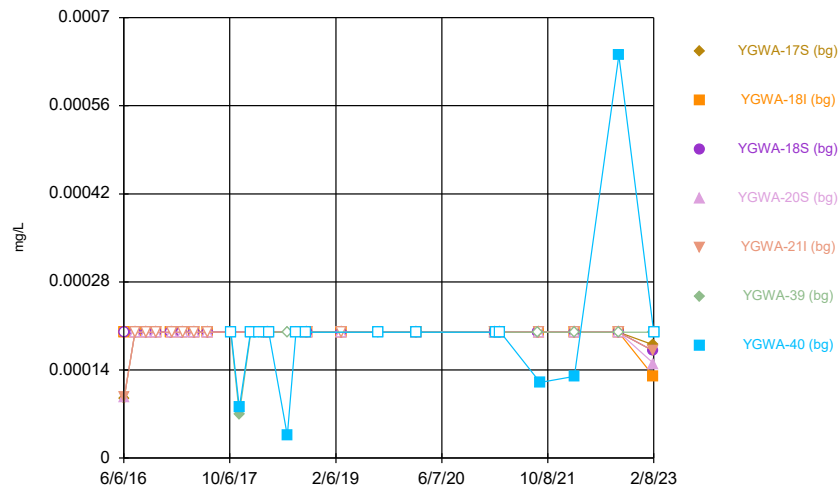
Constituent: Mercury Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



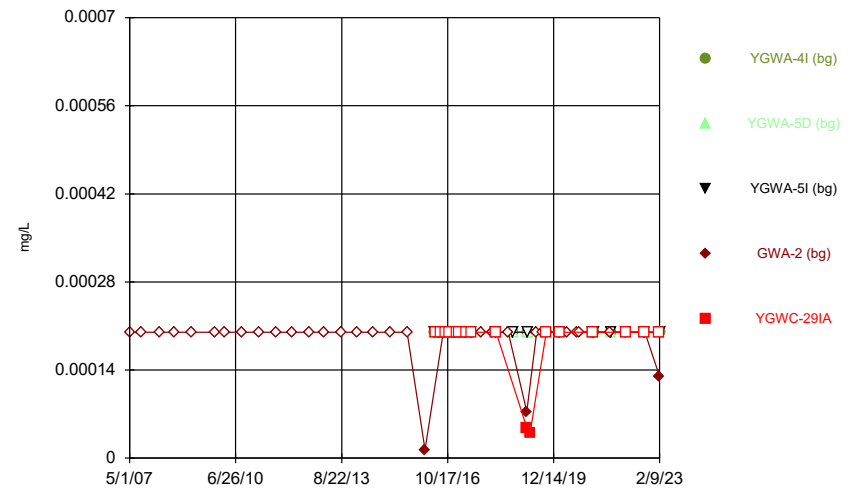
Constituent: Mercury Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



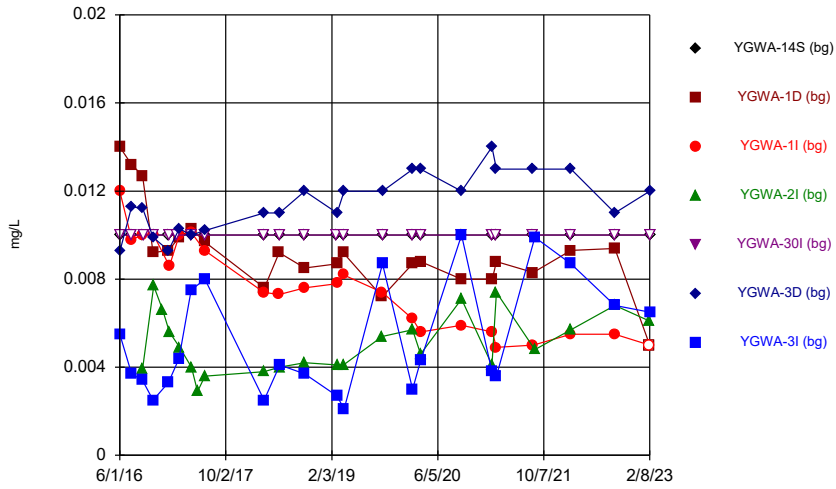
Constituent: Mercury Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



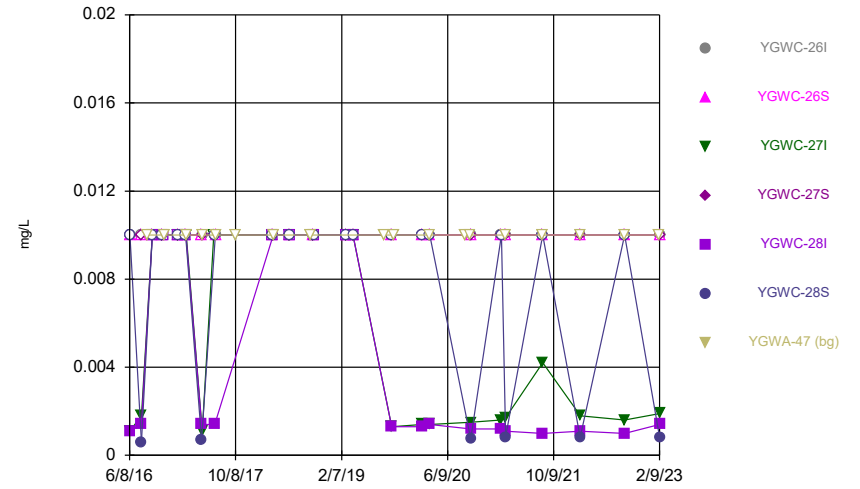
Constituent: Mercury Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



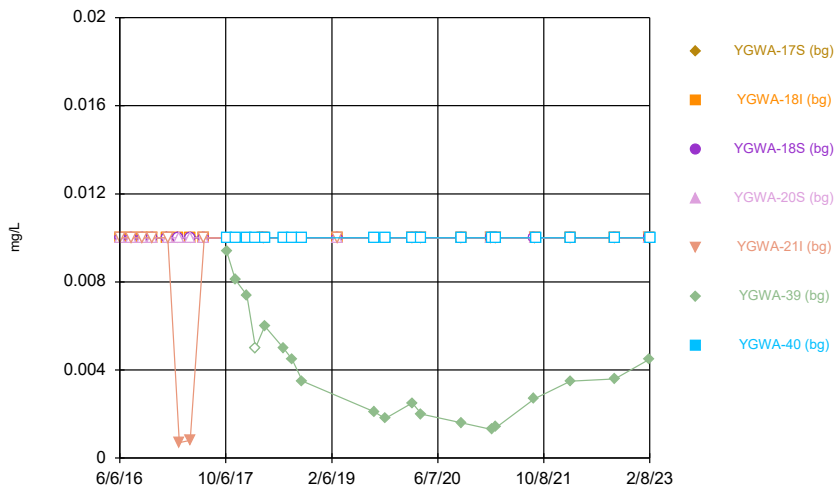
Constituent: Molybdenum Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



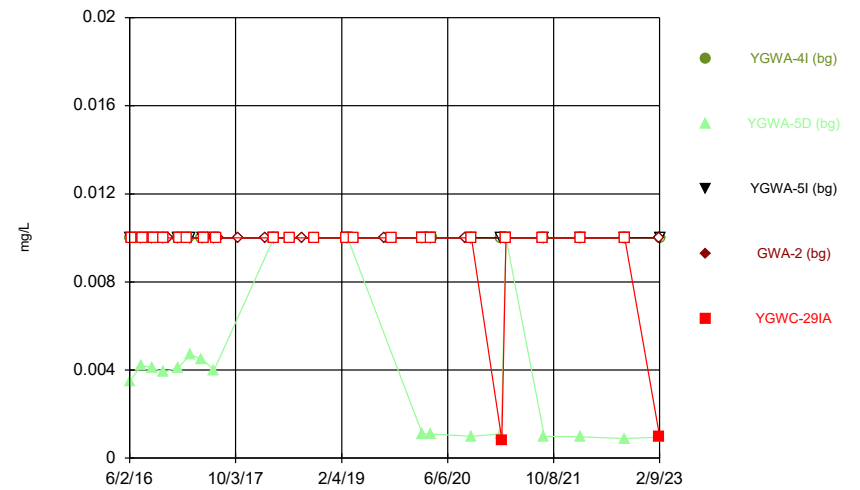
Constituent: Molybdenum Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Molybdenum Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

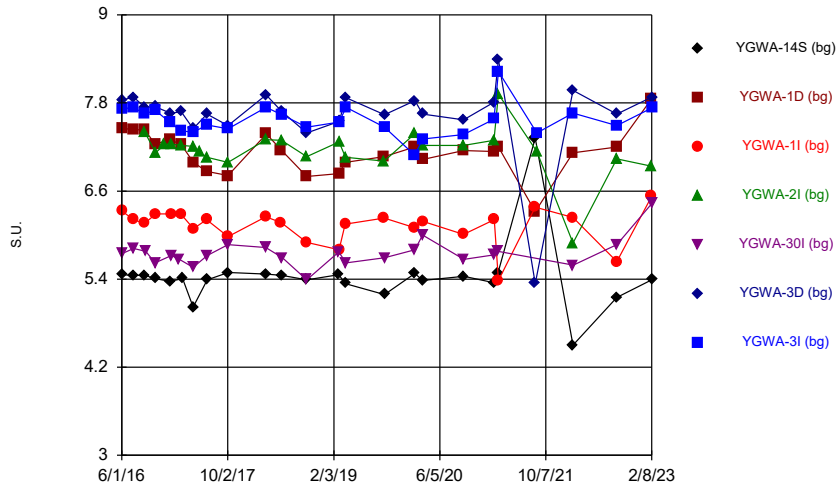
Time Series



Constituent: Molybdenum Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

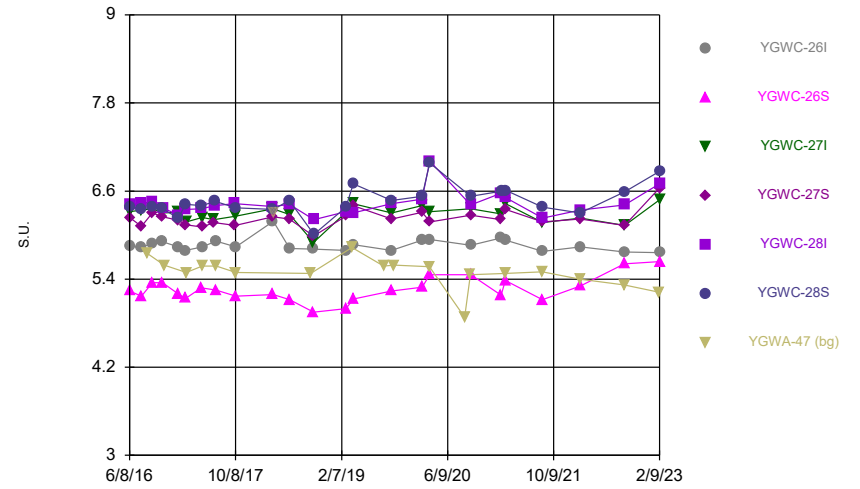


### Time Series



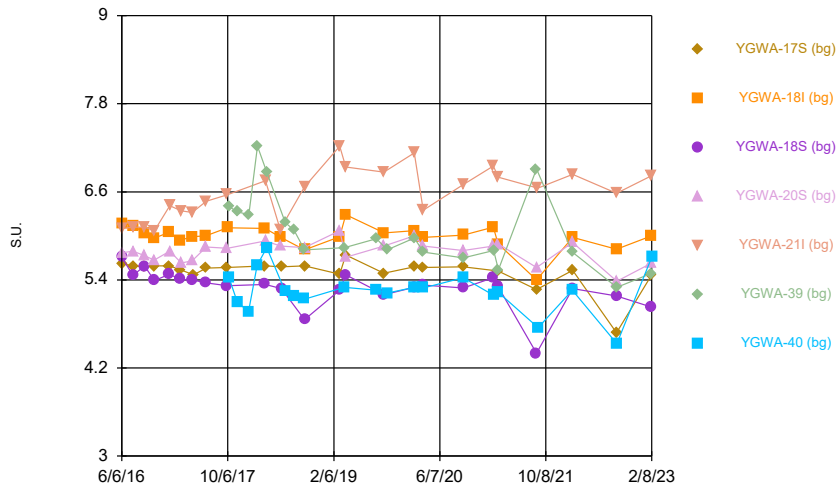
Constituent: pH Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



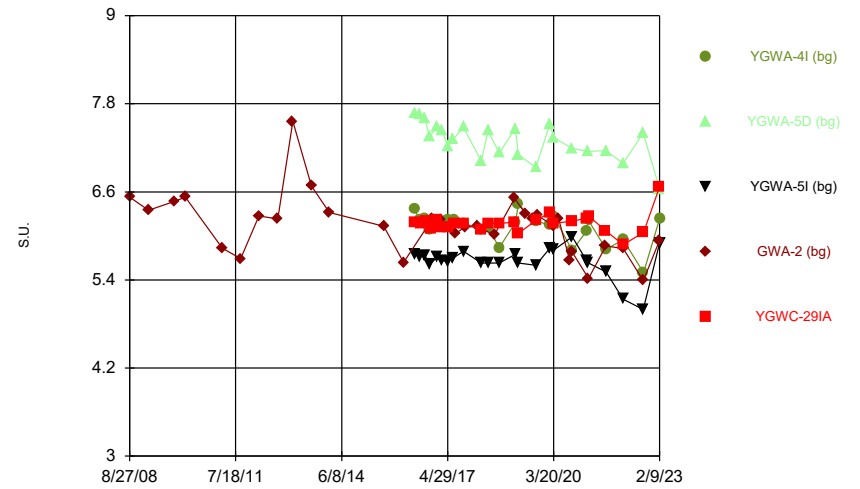
Constituent: pH Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



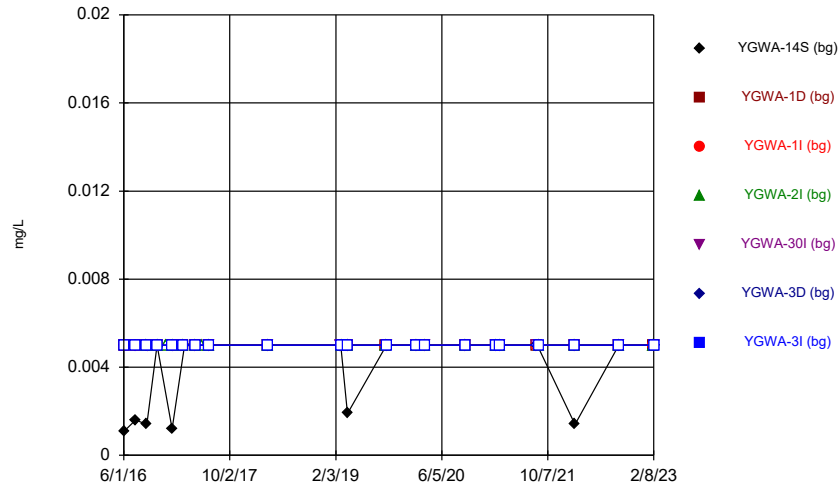
Constituent: pH Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



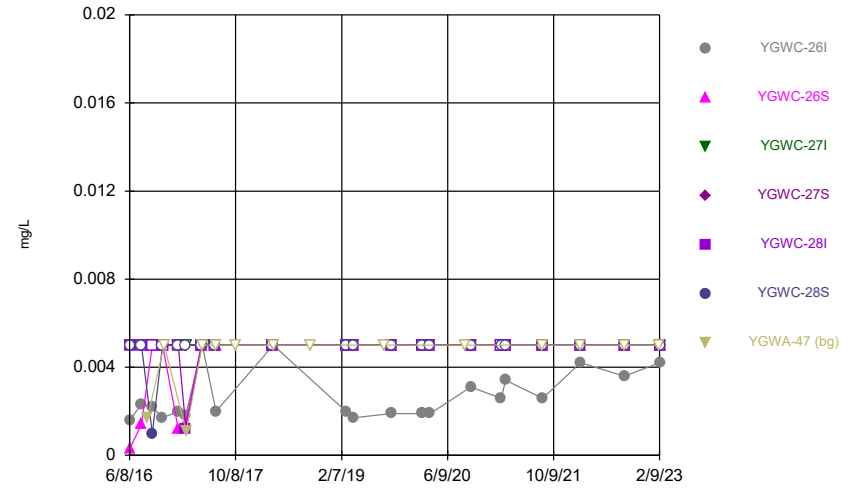
Constituent: pH Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



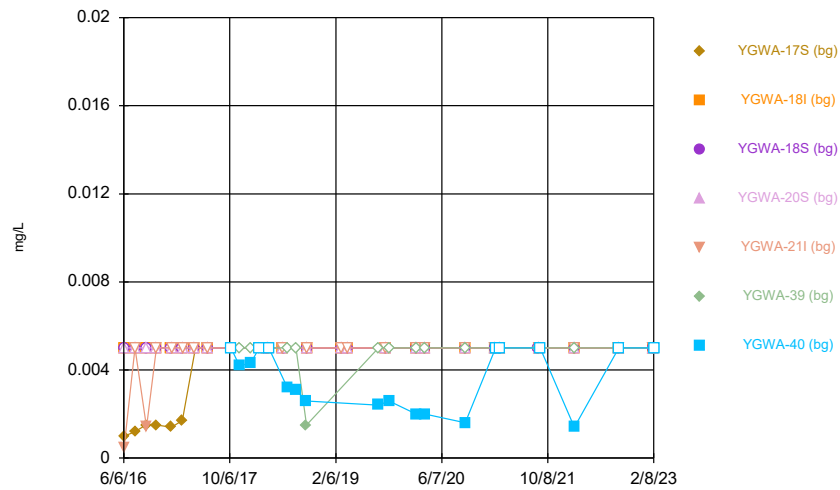
Constituent: Seleniun Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



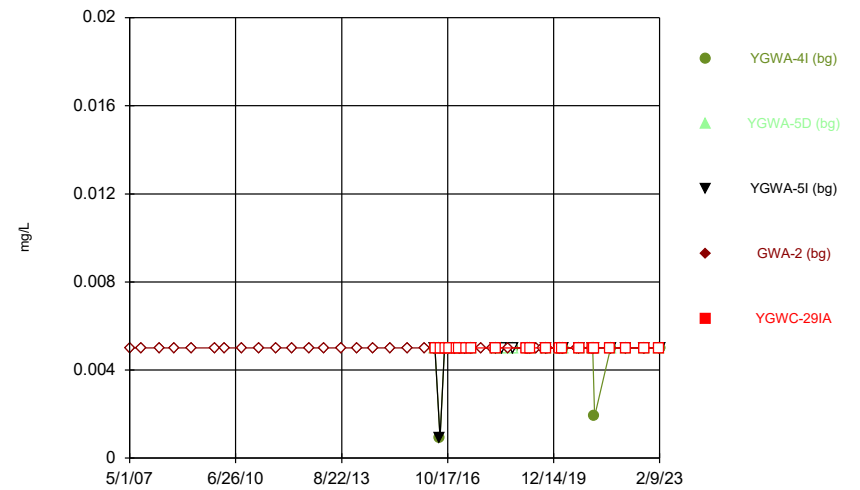
Constituent: Seleniun Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



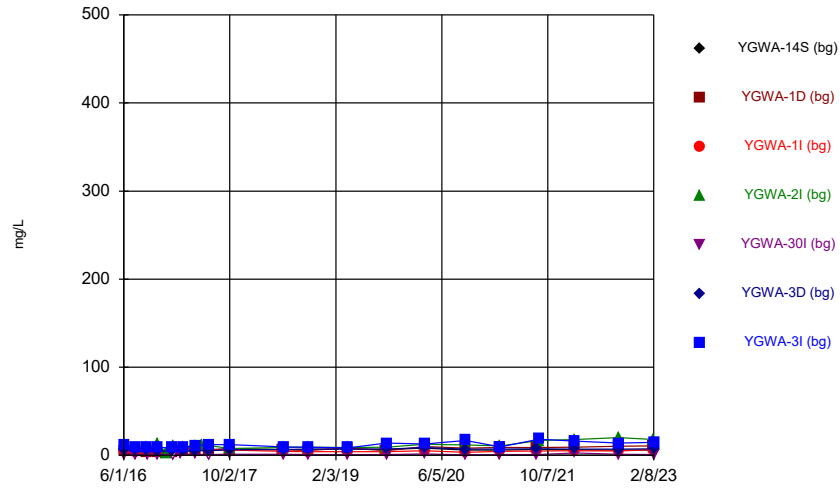
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



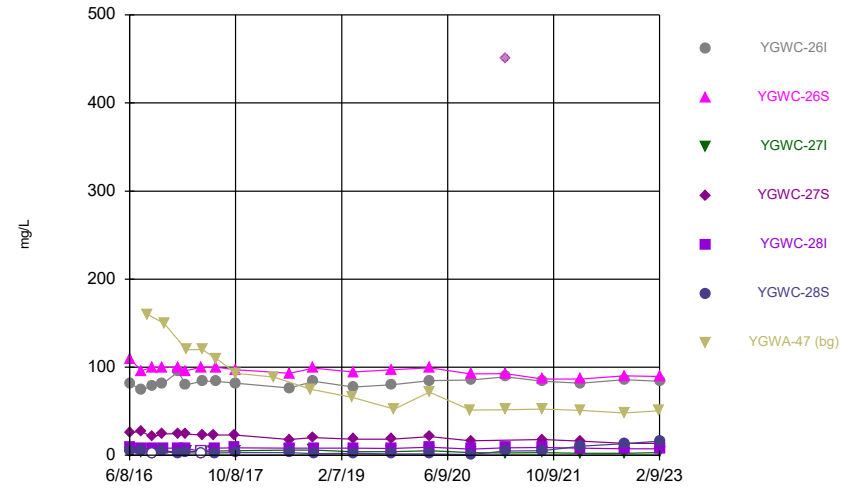
Constituent: Seleniun Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



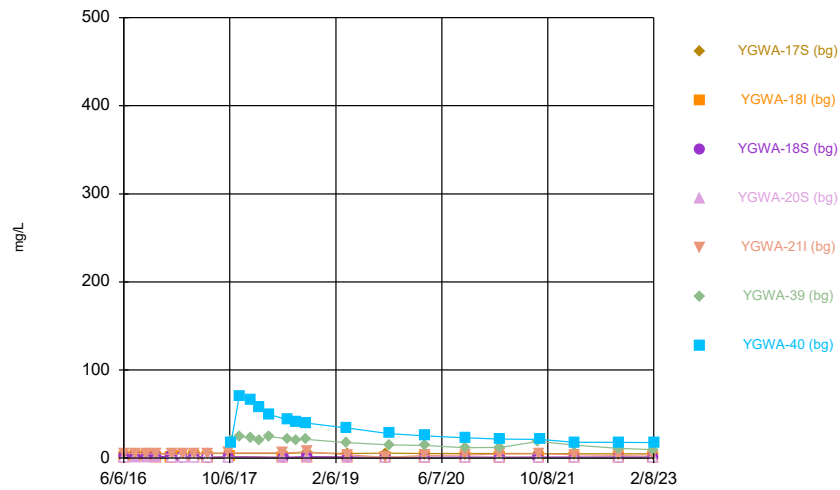
Constituent: Sulfate Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



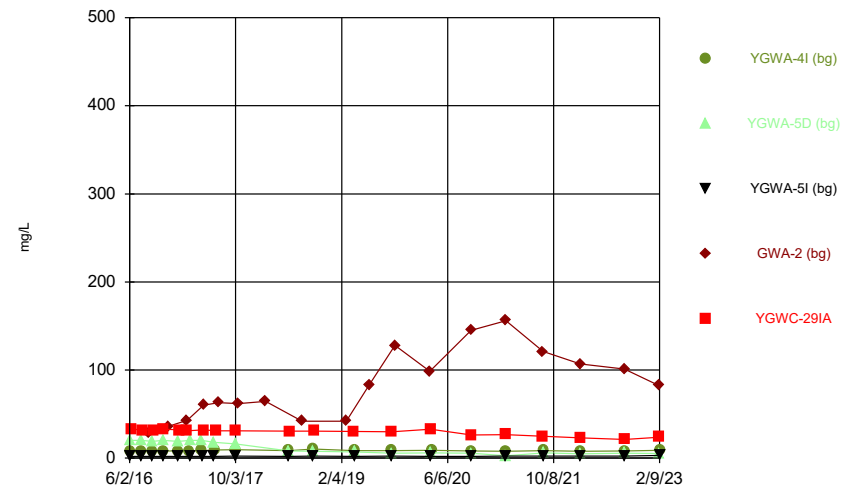
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



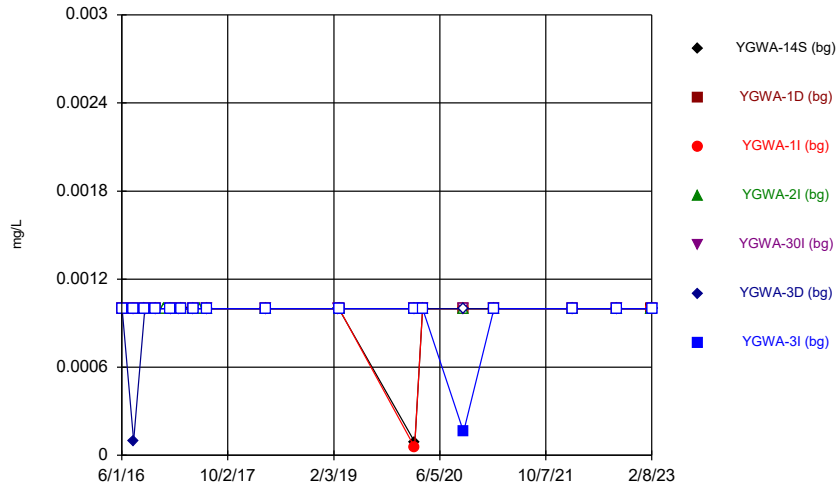
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



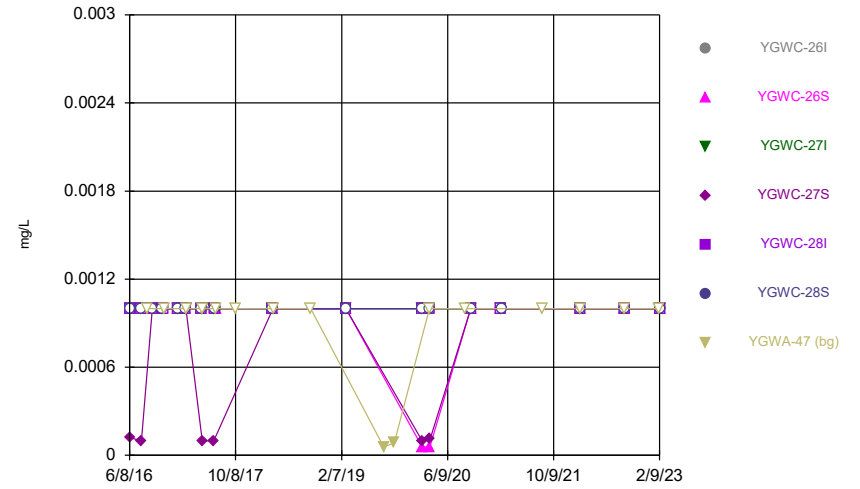
Constituent: Sulfate Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



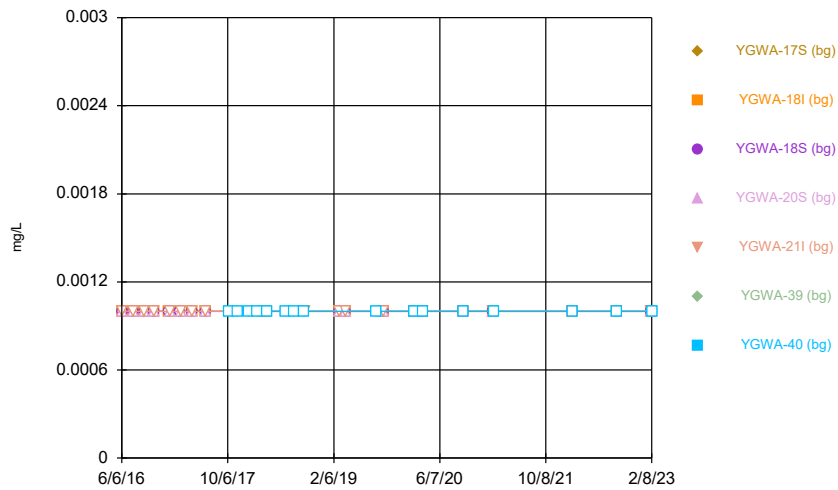
Constituent: Thallium Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



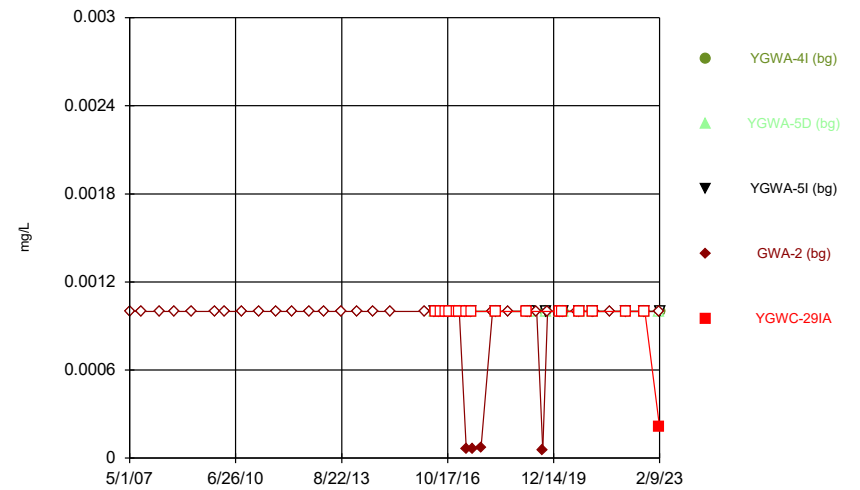
Constituent: Thallium Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



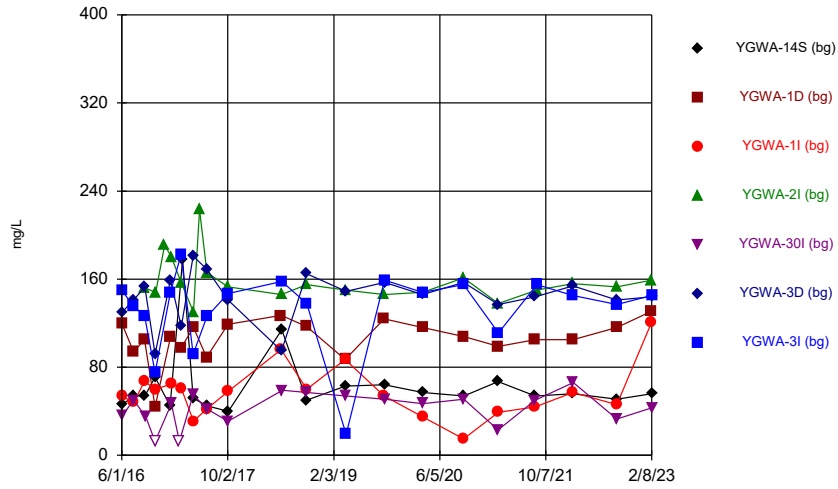
Constituent: Thallium Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



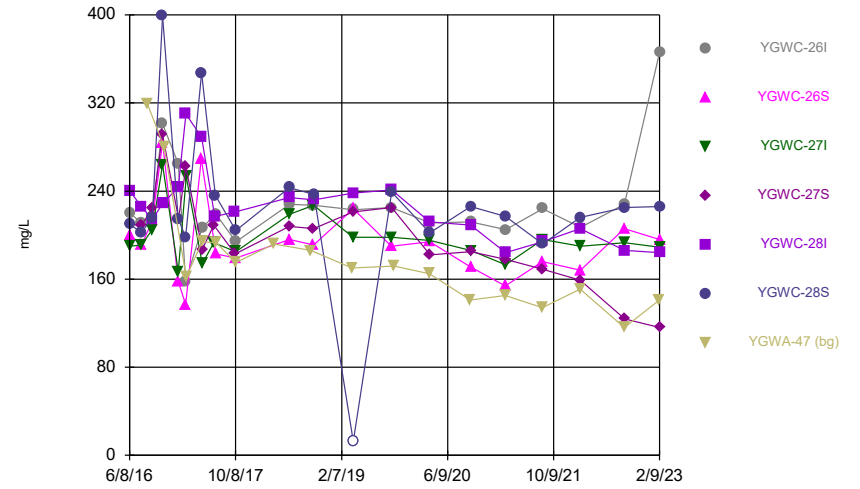
Constituent: Thallium Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



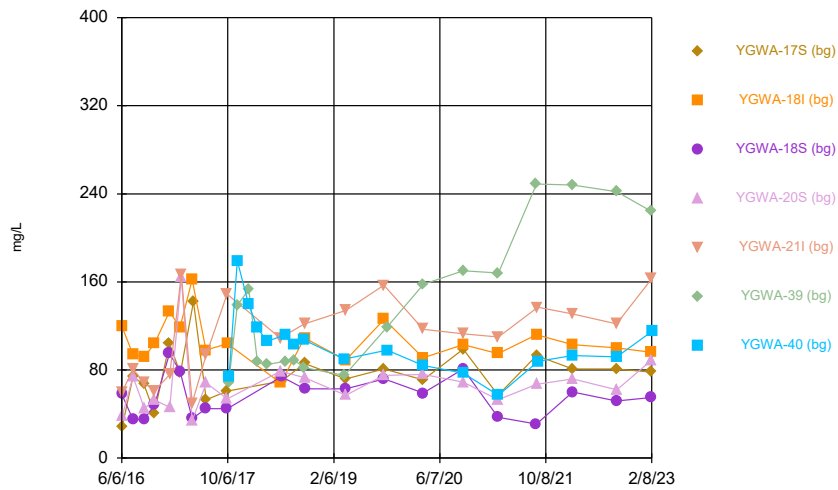
Constituent: Total Dissolved Solids Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



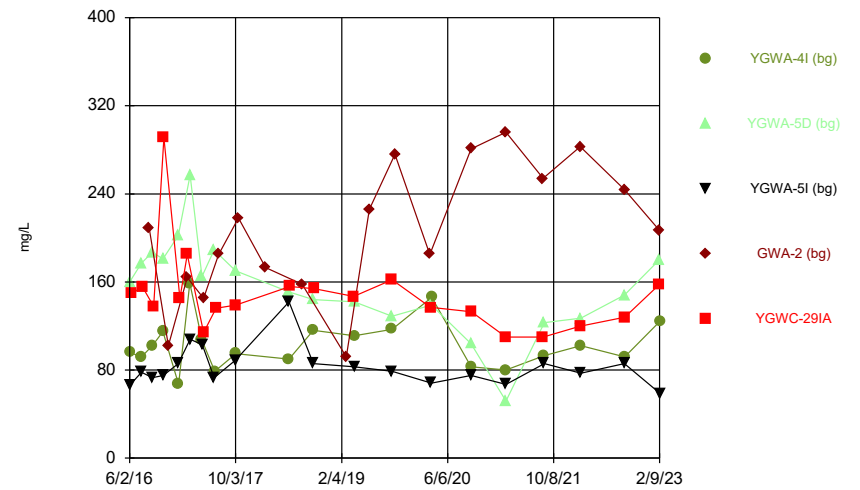
Constituent: Total Dissolved Solids Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



Constituent: Total Dissolved Solids Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Time Series



Constituent: Total Dissolved Solids Analysis Run 4/27/2023 10:23 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0005 (J)	0.001 (J)				0.002 (J)	
9/13/2016		0.001 (J)	<0.003				
9/14/2016				<0.003			<0.003
9/15/2016	<0.003					0.0027 (J)	
9/19/2016					<0.003		
11/1/2016		0.0015 (J)			<0.003	<0.003	<0.003
11/2/2016	<0.003						
11/4/2016			<0.003	<0.003			
12/15/2016				0.0012 (J)			
1/10/2017	<0.003						
1/11/2017		<0.003				<0.003	<0.003
1/16/2017			<0.003	<0.003	<0.003		
2/21/2017					<0.003		
3/1/2017							<0.003
3/2/2017		0.0004 (J)	<0.003			0.0008 (J)	
3/3/2017				<0.003			
3/8/2017	<0.003						
4/26/2017	<0.003				<0.003	<0.003	<0.003
4/27/2017		0.0004 (J)	0.0017 (J)				
4/28/2017				0.0015 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003		<0.003	<0.003
6/30/2017	<0.003				<0.003		
3/27/2018	<0.003		<0.003		<0.003		
3/28/2018				<0.003		<0.003	<0.003
3/29/2018		<0.003					
2/26/2019	<0.003				<0.003		
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
2/10/2020		0.00088 (J)	<0.003				
2/11/2020				0.00036 (J)			<0.003
2/12/2020	<0.003				<0.003	<0.003	
3/18/2020	<0.003		0.0004 (J)				
3/19/2020		<0.003		0.0003 (J)	<0.003	0.00064 (J)	<0.003
9/23/2020		<0.003	<0.003	<0.003		<0.003	<0.003
9/24/2020					<0.003		
9/25/2020	<0.003						
2/10/2021	<0.003			0.0013 (J)		<0.003	<0.003
2/11/2021					<0.003		
2/12/2021		<0.003	<0.003				
3/1/2021					<0.003		
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003
8/19/2021	<0.003	<0.003	<0.003		<0.003	<0.003	
8/27/2021				<0.003			<0.003
2/9/2022		<0.003	<0.003	<0.003		0.0018 (J)	<0.003
2/10/2022	<0.003						
2/11/2022					<0.003		
8/30/2022		<0.003		<0.003			

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/31/2022	<0.003		<0.003		<0.003	<0.003	<0.003
2/7/2023		<0.003	<0.003	<0.003			
2/8/2023	<0.003				<0.003	<0.003	<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	
8/1/2016	<0.003	<0.003	<0.003	<0.003			
8/2/2016					<0.003	<0.003	
8/30/2016							0.0028 (J)
9/20/2016	<0.003	<0.003	<0.003	<0.003			
9/21/2016					<0.003	<0.003	
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003	
11/8/2016					<0.003		
11/14/2016							<0.003
1/18/2017	<0.003	<0.003	<0.003		<0.003	<0.003	
1/19/2017				<0.003			
2/21/2017	<0.003	<0.003				<0.003	
2/22/2017				<0.003	<0.003		
2/23/2017			<0.003				
2/24/2017							<0.003
5/3/2017		<0.003					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		<0.003	<0.003			0.0004 (J)
6/30/2017			<0.003	<0.003			
7/5/2017					<0.003		
7/7/2017						<0.003	
7/10/2017	<0.003	<0.003					
7/11/2017							0.0006 (J)
10/10/2017							<0.003
3/29/2018			<0.003	<0.003			
3/30/2018	<0.003	<0.003			<0.003	<0.003	
4/2/2018							<0.003
9/19/2018							<0.003
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
8/20/2019							<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003	
3/19/2020		0.0017 (J)			<0.003	<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)			
8/27/2020							0.00048 (J)
9/22/2020							<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
2/10/2021	<0.003	<0.003	<0.003	<0.003			
2/11/2021					<0.003		
2/12/2021						<0.003	
3/1/2021							0.00048 (J)
3/2/2021		<0.003					
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003	
8/19/2021		<0.003					<0.003
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003	
2/8/2022				<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003				
8/31/2022	0.001 (J)	<0.003					<0.003
9/1/2022			<0.003	<0.003	<0.003	<0.003	
2/8/2023							<0.003
2/9/2023	<0.003	<0.003	0.0014 (J)	<0.003	<0.003	<0.003	



# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
10/11/2017						0.0006 (J)	
10/12/2017							<0.003
11/20/2017						<0.003	<0.003
1/10/2018							<0.003
1/11/2018						<0.003	
2/19/2018							<0.003
2/20/2018						<0.003	
3/28/2018	<0.003	<0.003	<0.003				
3/29/2018				<0.003	<0.003		
4/3/2018						<0.003	<0.003
6/28/2018						<0.003	<0.003
8/7/2018						<0.003	<0.003
9/24/2018						<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			
8/21/2019						<0.003	<0.003
9/24/2019					0.0035		
9/25/2019	<0.003			<0.003			
9/26/2019		0.00056 (J)	<0.003				
2/11/2020	<0.003	<0.003	<0.003				
2/12/2020				<0.003	0.0015 (J)	<0.003	<0.003
3/24/2020	<0.003	<0.003	<0.003	<0.003	0.0017 (J)		<0.003
3/25/2020						0.0014 (J)	
9/23/2020	<0.003	<0.003	<0.003				
9/24/2020				<0.003	0.0047	<0.003	<0.003
2/9/2021		<0.003	<0.003	0.00032 (J)	0.0013 (J)		
2/10/2021						<0.003	<0.003
3/3/2021	<0.003	<0.003	0.00067 (J)	<0.003			
3/4/2021					0.0014 (J)	<0.003	<0.003
8/26/2021			<0.003			<0.003	
8/27/2021	<0.003	<0.003		<0.003			
9/1/2021					<0.003		
9/3/2021							<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/8/2022						<0.003	<0.003
2/9/2022	<0.003	<0.003	<0.003	<0.003	<0.003		
8/30/2022	<0.003	<0.003	<0.003		0.0046		
8/31/2022				<0.003		<0.003	<0.003
2/7/2023	0.0013 (J)	<0.003	<0.003	<0.003	<0.003	<0.003	
2/8/2023							<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	<0.003	<0.003	<0.003		
6/9/2016					<0.003
7/26/2016	0.0003 (J)	<0.003	<0.003		
8/2/2016					<0.003
8/31/2016				<0.003	
9/14/2016	<0.003	<0.003	<0.003		
9/21/2016					<0.003
11/2/2016	<0.003	<0.003			
11/4/2016			<0.003		
11/7/2016					<0.003
11/28/2016				0.0014 (J)	
1/12/2017		<0.003	<0.003		
1/13/2017	<0.003				
1/19/2017					<0.003
2/22/2017				<0.003	<0.003
3/6/2017	<0.003				
3/7/2017		<0.003	<0.003		
5/1/2017	<0.003	<0.003			
5/2/2017			<0.003		
5/8/2017				<0.003	<0.003
6/27/2017		<0.003	<0.003		
6/29/2017	<0.003				
7/5/2017					<0.003
7/17/2017				<0.003	
10/16/2017				<0.003	
2/19/2018				<0.003	
3/29/2018	<0.003	<0.003	<0.003		<0.003
8/6/2018				<0.003	
2/25/2019				<0.003	
2/27/2019					<0.003
3/4/2019	<0.003	<0.003	<0.003		
4/3/2019	<0.003	<0.003	<0.003		
6/12/2019				<0.003	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
8/19/2019				<0.003	
9/24/2019		<0.003	<0.003		
9/25/2019	<0.003				
10/8/2019				<0.003	
2/12/2020	<0.003	<0.003	<0.003		
2/13/2020					<0.003
3/17/2020				<0.003	
3/20/2020					<0.003
3/24/2020		<0.003	<0.003		
3/25/2020	<0.003				
8/26/2020				0.00042 (J)	
9/22/2020	<0.003	<0.003	<0.003	0.00044 (J)	
9/24/2020					0.0013 (J)
2/8/2021		<0.003	<0.003		
2/9/2021	<0.003				
2/12/2021					<0.003
3/2/2021		<0.003	<0.003	<0.003	
3/3/2021	<0.003				<0.003
8/20/2021				<0.003	<0.003
8/26/2021	<0.003	<0.003	<0.003		
2/8/2022				<0.003	<0.003
2/10/2022		<0.003	<0.003		
2/11/2022	<0.003				
8/30/2022		<0.003	<0.003	<0.003	
8/31/2022	<0.003				
9/1/2022					<0.003
2/7/2023		<0.003		<0.003	
2/8/2023					<0.003
2/9/2023	<0.003		<0.003		

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0021	<0.005				<0.005
6/2/2016	<0.005				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	0.0016 (J)				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	0.0017 (J)			
12/15/2016				0.0023 (J)			
1/10/2017	<0.005						
1/11/2017		0.0017 (J)				<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0014 (J)	<0.005			<0.005	
3/3/2017				0.0016 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		0.0018 (J)	<0.005				
4/28/2017				0.002 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)		0.0007 (J)	0.0011 (J)
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				0.0013 (J)		<0.005	<0.005
3/29/2018		0.0017 (J)					
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					<0.005		
10/1/2018	<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005	<0.005
10/2/2018					<0.005		
2/26/2019	<0.005				<0.005		
2/27/2019		0.0015 (J)	<0.005	0.001 (J)		<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005				
3/29/2019	<0.005			0.00063 (J)			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.0014 (J)	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		0.0026 (J)	0.0005 (J)				
2/11/2020				0.0044 (J)			0.0041 (J)
2/12/2020	<0.005				0.0032 (J)	0.0038 (J)	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		0.00094 (J)	0.00078 (J)
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	0.00098 (J)		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)	0.0018 (J)
2/10/2022	0.0016 (J)						
2/11/2022					0.0014 (J)		
8/30/2022		<0.005		0.0027 (J)			
8/31/2022	<0.005		<0.005		<0.005	0.0028 (J)	<0.005
2/7/2023		<0.005	<0.005	<0.005			
2/8/2023	<0.005				<0.005	0.003 (J)	0.0024 (J)

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	
8/30/2016							<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	
11/8/2016					<0.005		
11/14/2016							<0.005
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		
2/23/2017			<0.005				
2/24/2017							<0.005
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
7/11/2017							<0.005
10/10/2017							0.0007 (J)
3/29/2018			0.0006 (J)	<0.005			
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
4/2/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
9/19/2018							0.00072 (J)
10/2/2018	<0.005	<0.005	<0.005	<0.005			
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	
4/1/2019			<0.005	<0.005	<0.005		
4/2/2019	<0.005	<0.005				<0.005	
8/20/2019							<0.005
9/25/2019	<0.005	<0.005					
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
10/8/2019							<0.005
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	
3/17/2020							<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			
8/27/2020							<0.005
9/22/2020							<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/1/2021							<0.005
3/2/2021		<0.005					

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	
8/19/2021		<0.005					<0.005
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0027 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					<0.005
9/1/2022			<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005
2/9/2023	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	<0.005	



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
10/11/2017						0.0009 (J)	
10/12/2017							<0.005
11/20/2017						<0.005	<0.005
1/10/2018							<0.005
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	0.00061 (J)				
3/29/2018				<0.005	0.0015 (J)		
4/3/2018						<0.005	<0.005
6/5/2018					0.0013 (J)		
6/6/2018				<0.005			
6/7/2018		0.00066 (J)					
6/11/2018	<0.005		<0.005				
6/28/2018						<0.005	<0.005
8/7/2018						<0.005	<0.005
9/24/2018						<0.005	<0.005
9/25/2018	<0.005	<0.005	<0.005	<0.005	0.0022 (J)		
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			
8/21/2019						0.00058 (J)	<0.005
9/24/2019					0.0026 (J)		
9/25/2019	<0.005			<0.005			
9/26/2019		<0.005	<0.005				
10/9/2019						0.00063 (J)	<0.005
2/11/2020	0.0022 (J)	0.0014 (J)	0.0026 (J)				
2/12/2020				<0.005	0.0025 (J)	0.00058 (J)	0.0034 (J)
3/24/2020	<0.005	<0.005	<0.005	<0.005	0.0013 (J)		<0.005
3/25/2020						0.0012 (J)	
9/23/2020	<0.005	<0.005	<0.005				
9/24/2020				<0.005	0.0014 (J)	<0.005	<0.005
2/9/2021		<0.005	<0.005	<0.005	0.001 (J)		
2/10/2021						<0.005	<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.005	<0.005	<0.005	<0.005			
3/4/2021					0.00078 (J)	<0.005	<0.005
8/26/2021			<0.005			<0.005	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					<0.005		
9/3/2021							<0.005
2/8/2022						0.0034 (J)	0.003 (J)
2/9/2022	0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)		
8/30/2022	<0.005	<0.005	<0.005		0.0022 (J)		
8/31/2022				<0.005		0.0029 (J)	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	0.0028 (J)	0.0029 (J)	
2/8/2023							<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	<0.005	0.00071 (J)	<0.005		
6/9/2016					<0.005
7/26/2016	<0.005	0.001 (J)	<0.005		
8/2/2016					<0.005
8/31/2016				<0.005	
9/14/2016	<0.005	<0.005	<0.005		
9/21/2016					<0.005
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				<0.005	
1/12/2017		<0.005	<0.005		
1/13/2017	<0.005				
1/19/2017					<0.005
2/22/2017				<0.005	<0.005
3/6/2017	<0.005				
3/7/2017		0.0012 (J)	<0.005		
5/1/2017	<0.005	<0.005			
5/2/2017			<0.005		
5/8/2017				<0.005	<0.005
6/27/2017		0.0019 (J)	<0.005		
6/29/2017	<0.005				
7/5/2017					<0.005
7/17/2017				<0.005	
10/16/2017				<0.005	
2/19/2018				<0.005	
3/29/2018	<0.005	0.0006 (J)	<0.005		<0.005
6/6/2018		0.0013 (J)			
6/7/2018	0.00059 (J)		<0.005		
6/11/2018					<0.005
8/6/2018				<0.005	
9/26/2018	<0.005	0.0014 (J)	<0.005		
10/2/2018					<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/25/2019				<0.005	
2/27/2019					<0.005
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
4/3/2019	<0.005	<0.005	<0.005		
6/12/2019				0.00038 (J)	
8/19/2019				0.00095 (J)	
9/24/2019		0.00043 (J)	<0.005		
9/25/2019	<0.005				<0.005
10/8/2019				<0.005	
2/12/2020	<0.005	0.0046 (J)	0.002 (J)		
2/13/2020					<0.005
3/17/2020				<0.005	
3/20/2020					<0.005
3/24/2020		0.00065 (J)	<0.005		
3/25/2020	<0.005				
8/26/2020				<0.005	
9/22/2020	<0.005	0.001 (J)	<0.005	<0.005	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					<0.005
3/2/2021		<0.005	<0.005	<0.005	
3/3/2021	<0.005				<0.005
8/20/2021				<0.005	<0.005
8/26/2021	<0.005	0.0016 (J)	<0.005		
2/8/2022				0.0033 (J)	0.0033 (J)
2/10/2022		0.004 (J)	0.0016 (J)		
2/11/2022	0.0014 (J)				
8/30/2022		0.0031 (J)	<0.005	0.0024 (J)	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		0.003 (J)		<0.005	
2/8/2023					<0.005
2/9/2023	<0.005		<0.005		

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.008	0.012				0.0038
6/2/2016	0.0081				0.0064	0.01	
7/25/2016			0.0091 (J)		0.0071 (J)		0.0031 (J)
7/26/2016	0.0082 (J)	0.006 (J)				0.0088 (J)	
9/13/2016		0.0084 (J)	0.008 (J)				
9/14/2016				0.0037 (J)			0.0027 (J)
9/15/2016	0.0087 (J)					0.009 (J)	
9/19/2016					0.0069 (J)		
11/1/2016		0.0062 (J)			0.007 (J)	0.0079 (J)	0.0027 (J)
11/2/2016	0.0082 (J)						
11/4/2016			0.0067 (J)	0.0059 (J)			
12/15/2016				0.0056 (J)			
1/10/2017	0.0086 (J)						
1/11/2017		0.0069 (J)				0.0075 (J)	0.0036 (J)
1/16/2017			0.0096 (J)	0.0049 (J)	0.0071 (J)		
2/21/2017					0.0077 (J)		
3/1/2017							0.0036 (J)
3/2/2017		0.0071 (J)	0.0112			0.009 (J)	
3/3/2017				0.0046 (J)			
3/8/2017	0.0088 (J)						
4/26/2017	0.0085 (J)				0.0074 (J)	0.0078 (J)	0.0038 (J)
4/27/2017		0.0064 (J)	0.0106				
4/28/2017				0.0039 (J)			
5/26/2017				0.0034 (J)			
6/27/2017		0.0054 (J)	0.0092 (J)				
6/28/2017				0.003 (J)		0.0071 (J)	0.004 (J)
6/30/2017	0.0081 (J)				0.0076 (J)		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
6/5/2018		0.0069 (J)					
6/6/2018			0.0082 (J)				
6/7/2018				0.0037 (J)		0.0068 (J)	
6/8/2018	0.007 (J)						0.0034 (J)
6/11/2018					0.007 (J)		
10/1/2018	0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)	0.0034 (J)
10/2/2018					0.0069 (J)		
2/26/2019	0.0067 (J)				0.007 (J)		
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)	0.0034 (J)
3/28/2019		0.0082 (J)	0.0082 (J)				
3/29/2019	0.0066 (J)			0.0039 (J)			
4/1/2019					0.0072 (J)	0.0064 (J)	0.003 (J)
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
9/25/2019	0.0071 (J)				0.0066 (J)	0.0059 (J)	0.005 (J)
2/10/2020		0.0066 (J)	0.0091 (J)				
2/11/2020				0.0036 (J)			0.0031 (J)
2/12/2020	0.007 (J)				0.0073 (J)	0.0062 (J)	
3/18/2020	0.0076 (J)		0.0084 (J)				
3/19/2020		0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)	0.0029 (J)
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)	0.0039 (J)
9/24/2020					0.0062 (J)		
9/25/2020	0.0073 (J)						

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.0078 (J)			0.0032 (J)		0.0059 (J)	0.0029 (J)
2/11/2021					0.0077 (J)		
2/12/2021		0.0057 (J)	0.009 (J)				
3/1/2021					0.007		
3/2/2021	0.0076						
3/3/2021		0.0068	0.0094	0.0041 (J)		0.0064	0.0031 (J)
8/19/2021	0.0077	0.0065	0.0079		0.0071	0.0052	
8/27/2021				0.003 (J)			0.0039 (J)
2/9/2022		0.0067	0.0088	0.0029 (J)		0.0051	0.0031 (J)
2/10/2022	0.0088						
2/11/2022					0.0077		
8/30/2022		0.0066		0.003 (J)			
8/31/2022	0.0075		0.0074		0.0068	0.0048 (J)	0.003 (J)
2/7/2023		0.14	0.21	0.0026 (J)			
2/8/2023	0.0089				0.0066	0.0048 (J)	0.0029 (J)

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	
8/30/2016							0.0413
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	
11/8/2016					0.0886		
11/14/2016							0.0383
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		
2/23/2017			0.0728				
2/24/2017							0.0351
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0251
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
7/11/2017							0.0233
10/10/2017							0.0207
3/29/2018			0.062	0.097			
3/30/2018	0.063	0.026			0.087	0.2	
4/2/2018							0.022
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
9/19/2018							0.023
10/2/2018	0.066	0.026	0.062	0.1			
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	
4/1/2019			0.066	0.099	0.088		
4/2/2019	0.065	0.027				0.2	
8/20/2019							0.024
9/25/2019	0.063	0.026					
9/26/2019			0.065	0.099	0.087	0.18	
10/8/2019							0.025
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	
3/17/2020							0.035
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			
8/27/2020							0.027
9/22/2020							0.026
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	
3/1/2021							0.029
3/2/2021		0.031					

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	0.064		0.08	0.075	0.077	0.25	
8/19/2021		0.023					0.029
8/20/2021	0.063		0.083	0.082	0.079	0.24	
2/8/2022				0.068	0.083	0.2	0.03
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					0.029
9/1/2022			0.076	0.049	0.068	0.2	
2/8/2023							0.031
2/9/2023	0.058	0.028	0.076	0.049	0.07	0.22	



# Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
10/11/2017						0.0092 (J)	
10/12/2017							0.0328
11/20/2017						0.0081 (J)	0.0671
1/10/2018							0.0656
1/11/2018						0.0077 (J)	
2/19/2018							0.0598
2/20/2018						<0.01	
3/28/2018	0.014	0.024	0.021				
3/29/2018				0.014	<0.01		
4/3/2018						<0.01	0.045
6/5/2018					0.011		
6/6/2018				0.015			
6/7/2018		0.023					
6/11/2018	0.013		0.019				
6/28/2018						0.0078 (J)	0.047
8/7/2018						0.0078 (J)	0.048
9/24/2018						0.0071 (J)	0.042
9/25/2018	0.014	0.023	0.019	0.015	0.011		
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			
8/21/2019						0.015	0.035
9/24/2019					0.011		
9/25/2019	0.015			0.014			
9/26/2019		0.021	0.017				
10/9/2019						0.013	0.036
2/11/2020	0.015	0.022	0.019				
2/12/2020				0.014	0.011	0.011	0.035
3/24/2020	0.015	0.021	0.017	0.015	0.011		0.033
3/25/2020						0.014	
9/23/2020	0.015	0.021	0.016				
9/24/2020				0.015	0.01	0.016	0.028
2/9/2021		0.023	0.017	0.015	0.011		
2/10/2021						0.027	0.032

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	0.017	0.023	0.017	0.015			
3/4/2021					0.011	0.028	0.032
8/26/2021			0.015			0.038	
8/27/2021	0.016	0.02		0.013			
9/1/2021					0.0099		
9/3/2021							0.035
2/8/2022						0.041	0.039
2/9/2022	0.017	0.021	0.014	0.014	0.011		
8/30/2022	0.017	0.017	0.012		0.0085		
8/31/2022				0.011		0.035	0.035
2/7/2023	0.017	0.019	0.012	0.014	0.01	0.03	
2/8/2023							0.037

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	0.013	0.0084	0.019		
6/9/2016					0.082
7/26/2016	0.0158	0.01	0.0179		
8/2/2016					0.0781
8/31/2016				0.0542	
9/14/2016	0.0143	0.0085 (J)	0.0181		
9/21/2016					0.0782
11/2/2016	0.0148	0.0091 (J)			
11/4/2016			0.0165		
11/7/2016					0.0712
11/28/2016				0.0529	
1/12/2017		0.0089 (J)	0.0199		
1/13/2017	0.0146				
1/19/2017					0.0689
2/22/2017				0.0607	0.0741
3/6/2017	0.0141				
3/7/2017		0.009 (J)	0.0196		
5/1/2017	0.0149	0.0083 (J)			
5/2/2017			0.0202		
5/8/2017				0.065	0.0725
6/27/2017		0.0074 (J)	0.0184		
6/29/2017	0.0154				
7/5/2017					0.0677
7/17/2017				0.06	
10/16/2017				0.0542	
2/19/2018				0.0533	
3/29/2018	0.014	<0.01	0.021		0.055
6/6/2018		0.008 (J)			
6/7/2018	0.014		0.019		
6/11/2018					0.068
8/6/2018				0.044	
9/26/2018	0.02	0.0075 (J)	0.019		
10/2/2018					0.067

# Time Series

Constituent: Barium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/25/2019				0.045	
2/27/2019					0.067
3/4/2019	0.016	0.0077 (J)	0.019		
4/1/2019					0.063
4/3/2019	0.017	0.0087 (J)	0.023		
6/12/2019				0.063	
8/19/2019				0.065	
9/24/2019		0.0075 (J)	0.019		
9/25/2019	0.015				0.061
10/8/2019				0.058	
2/12/2020	0.012	0.0079 (J)	0.021		
2/13/2020					0.053
3/17/2020				0.047	
3/20/2020					0.057
3/24/2020		0.0076 (J)	0.021		
3/25/2020	0.016				
8/26/2020				0.044	
9/22/2020	0.013	0.0076 (J)	0.019	0.045	
9/24/2020					0.056
2/8/2021		0.0079 (J)	0.02		
2/9/2021	0.013				
2/12/2021					0.21
3/2/2021		0.014	0.019	0.039	
3/3/2021	0.014				0.059
8/20/2021				0.036	0.057
8/26/2021	0.012	0.0092	0.019		
2/8/2022				0.037	0.057
2/10/2022		0.0084	0.02		
2/11/2022	0.013				
8/30/2022		0.0079	0.017	0.031	
8/31/2022	0.013				
9/1/2022					0.057
2/7/2023		0.0075		0.034	
2/8/2023					0.098
2/9/2023	0.014		0.019		

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0025				<0.0005
6/2/2016	<0.003				<0.0005	<0.0005	
7/25/2016			<0.0025		<0.0005		<0.0005
7/26/2016	0.0002 (J)	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0025				
9/14/2016				<0.0005			<0.0005
9/15/2016	0.0002 (J)					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	0.0002 (J)						
11/4/2016			<0.0025	<0.0005			
12/15/2016				<0.0005			
1/10/2017	0.0002 (J)						
1/11/2017		<0.0005				<0.0005	<0.0005
1/16/2017			<0.0025	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0025			<0.0005	
3/3/2017				<0.0005			
3/8/2017	0.0002 (J)						
4/26/2017	0.0002 (J)				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0025				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0025				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	0.0002 (J)				<0.0005		
3/27/2018	<0.003		<0.0025		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	0.00016 (J)				7.2E-05 (J)		
2/27/2019		<0.0005	<0.0025	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0025				
3/29/2019	0.00017 (J)			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0025	<0.0005			
9/25/2019	0.00018 (J)				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0025				
2/11/2020				<0.0005			<0.0005
2/12/2020	0.00019 (J)				<0.0005	<0.0005	
3/18/2020	0.00021 (J)		<0.0025				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0025	<0.0005		<0.0005	5.9E-05 (J)
9/24/2020					<0.0005		
9/25/2020	0.00018 (J)						
2/10/2021	0.00019 (J)			<0.0005		<0.0005	<0.0005
2/11/2021					4.7E-05 (J)		
2/12/2021		<0.0005	<0.0025				
3/1/2021					<0.0005		
3/2/2021	0.00018 (J)						
3/3/2021		<0.0005	<0.0025	<0.0005		<0.0005	<0.0005
8/19/2021	0.00022 (J)	<0.0005	<0.0025		<0.0005	<0.0005	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0025	<0.0005		<0.0005	<0.0005
2/10/2022	0.00025 (J)						
2/11/2022					<0.0005		
8/30/2022		<0.0005		<0.0005			
8/31/2022	0.0002 (J)		<0.0025		<0.0005	<0.0005	<0.0005
2/7/2023		0.0011	0.00054	<0.0005			
2/8/2023	0.00022 (J)				<0.0005	<0.0005	<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.0005	<0.003	<0.003	<0.0005			
6/9/2016					<0.0005	<0.0005	
8/1/2016	<0.0005	0.0002 (J)	<0.003	<0.0005			
8/2/2016					<0.0005	<0.0005	
8/30/2016							<0.0005
9/20/2016	<0.0005	0.0001 (J)	9E-05 (J)	<0.0005			
9/21/2016					<0.0005	<0.0005	
11/7/2016	<0.0005	0.0001 (J)	0.0001 (J)	<0.0005		<0.0005	
11/8/2016					<0.0005		
11/14/2016							<0.0005
1/18/2017	<0.0005	0.0002 (J)	0.0002 (J)		<0.0005	<0.0005	
1/19/2017				<0.0005			
2/21/2017	<0.0005	0.0002 (J)				<0.0005	
2/22/2017				<0.0005	<0.0005		
2/23/2017			0.0002 (J)				
2/24/2017							<0.0005
5/3/2017		0.0002 (J)					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		0.0002 (J)	<0.0005			7E-05 (J)
6/30/2017			0.0002 (J)	<0.0005			
7/5/2017					<0.0005		
7/7/2017						<0.0005	
7/10/2017	<0.0005	0.0002 (J)					
7/11/2017							<0.0005
10/10/2017							<0.0005
3/29/2018			<0.003	<0.0005			
3/30/2018	<0.0005	<0.003			<0.0005	<0.0005	
4/2/2018							<0.0005
9/19/2018							5.7E-05 (J)
2/27/2019	<0.0005	0.00018 (J)	0.00022 (J)	<0.0005	<0.0005	<0.0005	
4/1/2019			0.00022 (J)	<0.0005	<0.0005		
4/2/2019	<0.0005	0.00015 (J)				<0.0005	
8/20/2019							<0.0005
9/25/2019	<0.0005	0.00011 (J)					
9/26/2019			0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	0.00015 (J)	0.00021 (J)	<0.0005	<0.0005	<0.0005	
3/19/2020		0.00012 (J)			<0.0005	<0.0005	
3/20/2020	<0.0005		0.00023 (J)	<0.0005			
8/27/2020							4.7E-05 (J)
9/22/2020							<0.0005
9/24/2020	<0.0005	8.5E-05 (J)	0.00019 (J)	<0.0005	<0.0005	<0.0005	
2/10/2021	<0.0005	0.00013 (J)	0.00014 (J)	6.6E-05 (J)			
2/11/2021					<0.0005		
2/12/2021						<0.0005	
3/1/2021							5.5E-05 (J)
3/2/2021		0.00016 (J)					
3/3/2021	<0.0005		0.00013 (J)	<0.0005	<0.0005	<0.0005	
8/19/2021		8.2E-05 (J)					<0.0005
8/20/2021	<0.0005		8.6E-05 (J)	0.00011 (J)	<0.0005	<0.0005	
2/8/2022				<0.0005	<0.0005	<0.0005	5.6E-05 (J)
2/10/2022	<0.0005	9.3E-05 (J)	0.00013 (J)				
8/31/2022	<0.0005	7.4E-05 (J)					<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
9/1/2022			0.00012 (J)	<0.0005	<0.0005	<0.0005	
2/8/2023							<0.0005
2/9/2023	<0.0005	6.8E-05 (J)	0.0001 (J)	<0.0005	<0.0005	<0.0005	



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.0005	<0.003				
6/7/2016	<0.003			<0.0025	<0.0005		
7/27/2016	<0.003	<0.0005	<0.003	<0.0025			
7/28/2016					<0.0005		
9/16/2016	<0.003		<0.003				
9/19/2016		<0.0005		<0.0025	<0.0005		
11/2/2016				<0.0025			
11/3/2016	<0.003	<0.0005	<0.003		<0.0005		
1/11/2017	<0.003	<0.0005	<0.003				
1/13/2017				<0.0025	<0.0005		
3/1/2017		<0.0005	<0.003				
3/2/2017	8E-05 (J)						
3/6/2017				<0.0025	<0.0005		
4/26/2017		<0.0005	<0.003	<0.0025	<0.0005		
5/2/2017	<0.003						
6/28/2017		<0.0005	<0.003				
6/29/2017	<0.003			<0.0025	<0.0005		
10/11/2017						<0.0005	
10/12/2017							0.0002 (J)
11/20/2017						<0.0005	0.0003 (J)
1/10/2018							0.0003 (J)
1/11/2018						<0.0005	
2/19/2018							<0.003
2/20/2018						<0.0005	
3/28/2018	<0.003	<0.0005	<0.003				
3/29/2018				<0.0025	<0.0005		
4/3/2018						<0.0005	<0.003
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)				
6/28/2018						<0.0005	0.00029 (J)
8/7/2018						<0.0005	0.00024 (J)
9/24/2018						<0.0005	0.00019 (J)
9/25/2018	8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<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)			
8/21/2019						<0.0005	0.0002 (J)
9/24/2019					<0.0005		
9/25/2019	8.1E-05 (J)			<0.0025			
9/26/2019		<0.0005	8.4E-05 (J)				
10/9/2019						<0.0005	0.0002 (J)
2/11/2020	7.8E-05 (J)	<0.0005	7.6E-05 (J)				
2/12/2020				7.8E-05 (J)	<0.0005	<0.0005	0.00018 (J)
3/24/2020	8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005		0.00022 (J)
3/25/2020						<0.0005	
9/23/2020	8.1E-05 (J)	<0.0005	8.8E-05 (J)				
9/24/2020				8.3E-05 (J)	<0.0005	<0.0005	0.0002 (J)
2/9/2021		<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005		
2/10/2021						5.1E-05 (J)	0.00021 (J)

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)			
3/4/2021					<0.0005	<0.0005	0.00021 (J)
8/26/2021			9.3E-05 (J)			<0.0005	
8/27/2021	0.0001 (J)	<0.0005		5.9E-05 (J)			
9/1/2021					<0.0005		
9/3/2021							0.00024 (J)
2/8/2022						<0.0005	0.00028 (J)
2/9/2022	0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)	<0.0005		
8/30/2022	0.0001 (J)	<0.0005	8.2E-05 (J)		<0.0005		
8/31/2022				<0.0025		<0.0005	0.00025 (J)
2/7/2023	9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)	<0.0005	<0.0005	
2/8/2023							0.00026 (J)

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	<0.0005	<0.0005	<0.0005		
6/9/2016					<0.0005
7/26/2016	<0.0005	<0.0005	<0.0005		
8/2/2016					<0.0005
8/31/2016				<0.0005	
9/14/2016	<0.0005	<0.0005	<0.0005		
9/21/2016					<0.0005
11/2/2016	<0.0005	<0.0005			
11/4/2016			<0.0005		
11/7/2016					<0.0005
11/28/2016				<0.0005	
1/12/2017		<0.0005	<0.0005		
1/13/2017	<0.0005				
1/19/2017					<0.0005
2/22/2017				<0.0005	<0.0005
3/6/2017	<0.0005				
3/7/2017		<0.0005	<0.0005		
5/1/2017	<0.0005	<0.0005			
5/2/2017			<0.0005		
5/8/2017				<0.0005	<0.0005
6/27/2017		<0.0005	<0.0005		
6/29/2017	<0.0005				
7/5/2017					<0.0005
7/17/2017				<0.0005	
10/16/2017				<0.0005	
2/19/2018				<0.0005	
3/29/2018	<0.0005	<0.0005	<0.0005		<0.0005
6/6/2018		<0.0005			
6/7/2018	<0.0005		<0.0005		
8/6/2018				<0.0005	
9/26/2018	<0.0005	<0.0005	<0.0005		
2/25/2019				<0.0005	
2/27/2019					<0.0005

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
3/4/2019	<0.0005	<0.0005	<0.0005		
4/1/2019					<0.0005
4/3/2019	<0.0005	<0.0005	<0.0005		
6/12/2019				<0.0005	
8/19/2019				<0.0005	
9/24/2019		<0.0005	<0.0005		
9/25/2019	<0.0005				<0.0005
10/8/2019				<0.0005	
2/12/2020	<0.0005	<0.0005	<0.0005		
2/13/2020					<0.0005
3/17/2020				<0.0005	
3/20/2020					<0.0005
3/24/2020		<0.0005	<0.0005		
3/25/2020	<0.0005				
8/26/2020				<0.0005	
9/22/2020	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020					<0.0005
2/8/2021		<0.0005	<0.0005		
2/9/2021	<0.0005				
2/12/2021					<0.0005
3/2/2021		<0.0005	<0.0005	<0.0005	
3/3/2021	<0.0005				<0.0005
8/20/2021				<0.0005	<0.0005
8/26/2021	<0.0005	<0.0005	<0.0005		
2/8/2022				<0.0005	<0.0005
2/10/2022		<0.0005	<0.0005		
2/11/2022	<0.0005				
8/30/2022		<0.0005	<0.0005	<0.0005	
8/31/2022	<0.0005				
9/1/2022					<0.0005
2/7/2023		<0.0005		<0.0005	
2/8/2023					<0.0005
2/9/2023	<0.0005		<0.0005		

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.04	<0.04				<0.04
6/2/2016	<0.1				<0.04	<0.04	
7/25/2016			<0.04		<0.04		<0.04
7/26/2016	0.0177 (J)	0.0055 (J)				0.0097 (J)	
9/13/2016		<0.04	<0.04				
9/14/2016				<0.04			<0.04
9/15/2016	0.0214 (J)					0.0102 (J)	
9/19/2016					<0.04		
11/1/2016		0.0086 (J)			<0.04	<0.04	<0.04
11/2/2016	<0.1						
11/4/2016			<0.04	<0.04			
12/15/2016				0.0107 (J)			
1/10/2017	0.0198 (J)						
1/11/2017		0.0074 (J)				<0.04	<0.04
1/16/2017			<0.04	<0.04	<0.04		
2/21/2017					<0.04		
3/1/2017							<0.04
3/2/2017		0.008 (J)	<0.04			0.0084 (J)	
3/3/2017				<0.04			
3/8/2017	0.0189 (J)						
4/26/2017	0.0161 (J)				<0.04	<0.04	<0.04
4/27/2017		0.0066 (J)	<0.04				
4/28/2017				<0.04			
5/26/2017				<0.04			
6/27/2017		0.0087 (J)	0.006 (J)				
6/28/2017				<0.04		<0.04	<0.04
6/30/2017	0.0173 (J)				<0.04		
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04			
10/4/2017					<0.04	<0.04	<0.04
10/5/2017	0.0173 (J)						
6/5/2018		0.0052 (J)					
6/6/2018			<0.04				
6/7/2018				<0.04		0.004 (J)	
6/8/2018	0.013 (J)						<0.04
6/11/2018					0.014 (J)		
10/1/2018	0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04	<0.04
10/2/2018					<0.04		
3/28/2019		0.005 (J)	<0.04				
3/29/2019	0.014 (J)			0.0065 (J)			
4/1/2019					<0.04	<0.04	<0.04
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)			
9/25/2019	0.018 (J)				<0.04	0.0054 (J)	<0.04
3/18/2020	0.02 (J)		0.0087 (J)				
3/19/2020		0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)	0.0053 (J)
9/23/2020		<0.04	<0.04	<0.04		0.012 (J)	0.0073 (J)
9/24/2020					0.0075 (J)		
9/25/2020	0.02 (J)						
3/1/2021					<0.04		
3/2/2021	0.017 (J)						
3/3/2021		<0.04	<0.04	<0.04		<0.04	<0.04
8/19/2021	0.018 (J)	<0.04	<0.04		<0.04	<0.04	
8/27/2021				<0.04			<0.04

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		<0.04	<0.04	<0.04		0.01 (J)	<0.04
2/10/2022	0.02 (J)						
2/11/2022					<0.04		
8/30/2022		<0.04		<0.04			
8/31/2022	0.015 (J)		<0.04		<0.04	<0.04	<0.04
2/7/2023		<0.04	<0.04	<0.04			
2/8/2023	0.015 (J)				<0.04	<0.04	<0.04

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	
8/30/2016							0.0166 (J)
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	
11/7/2016	0.852	0.621	1.91	1.35		2.49	
11/8/2016					2.44		
11/14/2016							0.0166 (J)
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		
2/23/2017			1.76				
2/24/2017							0.0145 (J)
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.0141 (J)
6/30/2017			2.28	1.47			
7/5/2017					2.7		
7/7/2017						3.01	
7/10/2017	0.855	0.58					
7/11/2017							0.0131 (J)
10/5/2017					2.53		
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					0.0124 (J)
4/2/2018							0.013 (J)
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
9/19/2018							0.012 (J)
10/2/2018	0.93	0.62	1.9	1.4			
10/3/2018					2.3	2.4	
3/27/2019							0.013 (J)
4/1/2019			2.4	1.4	2.7		
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					
9/26/2019			1.9	1.5	2.8	2.5	
10/8/2019							0.012 (J)
3/17/2020							0.023 (J)
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			
9/22/2020							0.0076 (J)
9/24/2020	0.76	0.74	2.3	1.3	2.1	2.6	
3/1/2021							0.013 (J)
3/2/2021		0.57					
3/3/2021	0.69		2	1.2	1.8	2.3	
8/19/2021		0.71					0.011 (J)
8/20/2021	0.72		2.5	1.2	2.3	2.5	
2/8/2022				1.1	2.4	2.4	0.015 (J)
2/10/2022	0.79	0.79	2.5				

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	0.64	0.7		1	1.8	2.2	0.0091 (J)
9/1/2022			2.3				
2/8/2023							0.011 (J)
2/9/2023	0.75	0.74	2.2	1	1.8	2.3	



# Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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					
10/11/2017						0.0135 (J)	
10/12/2017							0.0401
11/20/2017						0.0251 (J)	0.156
1/10/2018							0.15
1/11/2018						0.0255 (J)	
2/19/2018							0.146
2/20/2018						<0.04	
4/3/2018						0.033 (J)	0.12
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)				
6/28/2018						0.053	0.16
8/7/2018						0.024 (J)	0.12
9/24/2018						0.028 (J)	0.099
9/25/2018	0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)		
3/26/2019							0.096
3/27/2019						0.017 (J)	
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		0.0062 (J)	0.0072 (J)				
10/9/2019						0.017 (J)	0.079
3/24/2020	0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)		0.088 (J)
3/25/2020						0.043 (J)	
9/23/2020	0.0066 (J)	0.021 (J)	0.006 (J)				
9/24/2020				0.0094 (J)	0.013 (J)	0.037 (J)	0.087 (J)
3/3/2021	0.01 (J)	<0.04	0.0094 (J)	<0.04			
3/4/2021					0.0079 (J)	0.033 (J)	0.078
8/26/2021			<0.04			0.095	
8/27/2021	0.011 (J)	<0.04		<0.04			

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					<0.04		
9/3/2021							0.077
2/8/2022						0.13	0.074
2/9/2022	0.0098 (J)	<0.04	<0.04	<0.04	<0.04		
8/30/2022	0.013 (J)	<0.04	0.014 (J)		0.012 (J)		
8/31/2022				<0.04		0.14	0.062
2/7/2023	0.014 (J)	<0.04	<0.04	<0.04	<0.04	0.13	
2/8/2023							0.057

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/2/2016	<0.04	<0.04	<0.04		
6/9/2016					0.88
7/26/2016	0.0047 (J)	0.0052 (J)	<0.04		
8/2/2016					0.872
8/31/2016				0.0315 (J)	
9/14/2016	<0.04	0.0071 (J)	0.01 (J)		
9/21/2016					0.853
11/2/2016	<0.04	<0.04			
11/4/2016			<0.04		
11/7/2016					0.815
11/28/2016				0.0095 (J)	
1/12/2017		0.0076 (J)	<0.04		
1/13/2017	<0.04				
1/19/2017					0.803
2/22/2017				<0.04	0.855
3/6/2017	<0.04				
3/7/2017		0.0089 (J)	<0.04		
5/1/2017	<0.04	0.0061 (J)			
5/2/2017			<0.04		
5/8/2017				0.0084 (J)	0.884
6/27/2017		0.0079 (J)	<0.04		
6/29/2017	<0.04				
7/5/2017					0.811
7/17/2017				0.0092 (J)	
10/3/2017		0.0094 (J)	<0.04		
10/5/2017	<0.04				0.851
10/16/2017				<0.04	
2/19/2018				<0.04	
6/6/2018		0.0098 (J)			
6/7/2018	0.0045 (J)		<0.04		
6/11/2018					0.9
8/6/2018				<0.04	
9/26/2018	0.005 (J)	0.01 (J)	0.0057 (J)		
10/2/2018					0.81
2/25/2019				<0.04	
4/1/2019					0.85
4/3/2019	0.0055 (J)	0.0076 (J)	0.0044 (J)		
6/12/2019				<0.04	
9/24/2019		0.01 (J)	0.0049 (J)		
9/25/2019	<0.04				0.73
10/8/2019				<0.04	
3/17/2020				0.0051 (J)	
3/20/2020					0.8
3/24/2020		0.011 (J)	0.0068 (J)		
3/25/2020	0.011 (J)				
9/22/2020	<0.04	0.0079 (J)	0.0053 (J)	0.0079 (J)	
9/24/2020					0.84
3/2/2021		0.0068 (J)	0.011 (J)	<0.04	
3/3/2021	0.0056 (J)				0.62
8/20/2021				<0.04	0.66
8/26/2021	<0.04	0.009 (J)	<0.04		
2/8/2022				<0.04	0.71

# Time Series

Constituent: Boron (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/10/2022		0.011 (J)	<0.04		
2/11/2022	<0.04				
8/30/2022		0.0098 (J)	<0.04	<0.04	
8/31/2022	<0.04				
9/1/2022					0.71
2/7/2023		<0.04		<0.04	
2/8/2023					0.9
2/9/2023	<0.04		<0.04		

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	<0.0005	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	<0.0005					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	<0.0005						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	<0.0005						
1/11/2017		0.0002 (J)				0.0001 (J)	8E-05 (J)
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<0.0005			
3/8/2017	7E-05 (J)						
4/26/2017	<0.0005				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	<0.0005				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	<0.0005				<0.0005		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	<0.0005			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	<0.0005				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	<0.0005				<0.0005	<0.0005	
3/18/2020	<0.0005		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
9/24/2020					<0.0005		
9/25/2020	<0.0005						
2/10/2021	<0.0005			<0.0005		<0.0005	<0.0005
2/11/2021					<0.0005		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	<0.0005						
2/11/2022					<0.0005		
8/30/2022		<0.0005		<0.0005			
8/31/2022	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005
2/7/2023		<0.0005	<0.0005	<0.0005			
2/8/2023	<0.0005				<0.0005	<0.0005	0.00013 (J)

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					0.00055 (J)	<0.0005	
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					0.0001 (J)	<0.0005	
8/30/2016							0.0001 (J)
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					0.0001 (J)	<0.0005	
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
11/8/2016					9E-05 (J)		
11/14/2016							0.0001 (J)
1/18/2017	<0.0005	<0.0005	<0.0005		9E-05 (J)	<0.0005	
1/19/2017				<0.0005			
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	0.0001 (J)		
2/23/2017			<0.0005				
2/24/2017							9E-05 (J)
5/3/2017		<0.0005					
5/5/2017					9E-05 (J)	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			0.0001 (J)
6/30/2017			<0.0005	<0.0005			
7/5/2017					0.0002 (J)		
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
7/11/2017							<0.0005
10/10/2017							<0.0005
3/29/2018			<0.0005	<0.0005			
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
4/2/2018							<0.0005
9/19/2018							<0.0005
2/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	0.00014 (J)	<0.0005	
4/1/2019			<0.0005	<0.0005	0.00043 (J)		
4/2/2019	<0.0005	<0.0005				<0.0005	
8/20/2019							<0.0005
9/25/2019	<0.0005	<0.0005					
9/26/2019			<0.0005	<0.0005	<0.0005	<0.0005	
10/8/2019							<0.0005
2/13/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00013 (J)	<0.0005	
3/17/2020							<0.0005
3/19/2020		<0.0005			0.00016 (J)	<0.0005	
3/20/2020	<0.0005		<0.0005	<0.0005			
8/27/2020							<0.0005
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00027 (J)	<0.0005	
2/10/2021	<0.0005	<0.0005	<0.0005	<0.0005			
2/11/2021					0.00052 (J)		
2/12/2021						0.00048 (J)	
3/2/2021		<0.0005					
3/3/2021	<0.0005		<0.0005	<0.0005	0.00014 (J)	<0.0005	
8/19/2021		<0.0005					<0.0005
8/20/2021	<0.0005		<0.0005	<0.0005	0.00027 (J)	<0.0005	
2/8/2022				<0.0005	0.00033 (J)	<0.0005	<0.0005
2/10/2022	<0.0005	<0.0005	<0.0005				
8/31/2022	<0.0005	<0.0005					<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
9/1/2022			<0.0005	<0.0005	0.00017 (J)	<0.0005	
2/8/2023							0.00032 (J)
2/9/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
10/11/2017						<0.0025	
10/12/2017							<0.0005
11/20/2017						<0.0025	<0.0005
1/10/2018							<0.0005
1/11/2018						<0.0025	
2/19/2018							<0.0005
2/20/2018						<0.0025	
3/28/2018	<0.0005	<0.0005	<0.0005				
3/29/2018				<0.0005	<0.0005		
4/3/2018						<0.0025	<0.0005
6/5/2018					<0.0005		
6/6/2018				<0.0005			
6/7/2018		<0.0005					
6/11/2018	<0.0005		<0.0005				
6/28/2018						<0.0025	<0.0005
8/7/2018						<0.0025	<0.0005
9/24/2018						<0.0025	<0.0005
9/25/2018	<0.0005	<0.0005	<0.0005	<0.0005	9.6E-05 (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			
8/21/2019						<0.0025	<0.0005
9/24/2019					<0.0005		
9/25/2019	<0.0005			<0.0005			
9/26/2019		<0.0005	<0.0005				
10/9/2019						<0.0025	<0.0005
2/11/2020	<0.0005	<0.0005	<0.0005				
2/12/2020				<0.0005	<0.0005	<0.0025	<0.0005
3/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/25/2020						<0.0025	
9/23/2020	<0.0005	<0.0005	<0.0005				
9/24/2020				<0.0005	<0.0005	<0.0025	<0.0005
2/9/2021		<0.0005	<0.0005	<0.0005	0.00041 (J)		
2/10/2021						0.00019 (J)	<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.0005	<0.0005	<0.0005	<0.0005			
3/4/2021					<0.0005	0.0003 (J)	<0.0005
8/26/2021			<0.0005			0.00049 (J)	
8/27/2021	<0.0005	<0.0005		<0.0005			
9/1/2021					<0.0005		
9/3/2021							<0.0005
2/8/2022						0.00063	<0.0005
2/9/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/30/2022	<0.0005	<0.0005	<0.0005		<0.0005		
8/31/2022				<0.0005		0.00044 (J)	<0.0005
2/7/2023	<0.0005	<0.0005	<0.0005	<0.0005	0.00012 (J)	0.00014 (J)	
2/8/2023							<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	<0.0005	<0.0005	<0.0005		
6/9/2016					<0.0025
7/26/2016	<0.0005	<0.0005	<0.0005		
8/2/2016					0.0001 (J)
8/31/2016				<0.0005	
9/14/2016	<0.0005	<0.0005	<0.0005		
9/21/2016					0.0002 (J)
11/2/2016	<0.0005	<0.0005			
11/4/2016			<0.0005		
11/7/2016					0.0002 (J)
11/28/2016				<0.0005	
1/12/2017		<0.0005	9E-05 (J)		
1/13/2017	<0.0005				
1/19/2017					0.0001 (J)
2/22/2017				<0.0005	0.0001 (J)
3/6/2017	<0.0005				
3/7/2017		<0.0005	<0.0005		
5/1/2017	<0.0005	<0.0005			
5/2/2017			<0.0005		
5/8/2017				<0.0005	0.0002 (J)
6/27/2017		<0.0005	<0.0005		
6/29/2017	<0.0005				
7/5/2017					0.0002 (J)
7/17/2017				<0.0005	
10/16/2017				<0.0005	
2/19/2018				<0.0005	
3/29/2018	<0.0005	<0.0005	<0.0005		<0.0025
6/6/2018		<0.0005			
6/7/2018	<0.0005		<0.0005		
8/6/2018				<0.0005	
9/26/2018	<0.0005	<0.0005	<0.0005		
2/25/2019				<0.0005	
2/27/2019					0.00026 (J)

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
3/4/2019	<0.0005	<0.0005	<0.0005		
4/1/2019					0.00022 (J)
4/3/2019	<0.0005	<0.0005	<0.0005		
6/12/2019				<0.0005	
8/19/2019				<0.0005	
9/24/2019		<0.0005	<0.0005		
9/25/2019	<0.0005				0.00024 (J)
10/8/2019				<0.0005	
2/12/2020	<0.0005	<0.0005	<0.0005		
2/13/2020					0.00018 (J)
3/17/2020				<0.0005	
3/20/2020					0.00022 (J)
3/24/2020		<0.0005	<0.0005		
3/25/2020	<0.0005				
8/26/2020				<0.0005	
9/22/2020	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020					0.00033 (J)
2/8/2021		<0.0005	<0.0005		
2/9/2021	<0.0005				
2/12/2021					<0.0025
3/2/2021		<0.0005	<0.0005	<0.0005	
3/3/2021	<0.0005				0.00029 (J)
8/20/2021				<0.0005	0.00027 (J)
8/26/2021	<0.0005	<0.0005	<0.0005		
2/8/2022				<0.0005	0.00019 (J)
2/10/2022		<0.0005	<0.0005		
2/11/2022	<0.0005				
8/30/2022		<0.0005	<0.0005	<0.0005	
8/31/2022	<0.0005				
9/1/2022					0.0002 (J)
2/7/2023		<0.0005		0.00012 (J)	
2/8/2023					0.00028 (J)
2/9/2023	<0.0005		<0.0005		

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		12	2.5				21
6/2/2016	1.3				1.3	28	
7/25/2016			2.16		1.17		20.3
7/26/2016	1.24	11				24.5	
9/13/2016		11.8	2.21				
9/14/2016				23.5			19.7
9/15/2016	1.17					27	
9/19/2016					1.05		
11/1/2016		11			1.14	25.6	18.4
11/2/2016	1.23						
11/4/2016			2.67	23.7			
12/15/2016				23.1			
1/10/2017	1.24						
1/11/2017		11.2				27.5	20.3
1/16/2017			2.45	23.3	1.23		
2/21/2017					1.25		
3/1/2017							18.6
3/2/2017		11	2.57			27.5	
3/3/2017				25.1			
3/8/2017	1.21						
4/26/2017	1.14				1.03	30.4	25.6
4/27/2017		11.1	2.38				
4/28/2017				30.7			
5/26/2017				26.2			
6/27/2017		13.8	2.36				
6/28/2017				26.1		29.8	23.9
6/30/2017	1.24				1.13		
10/3/2017		14	2.21	26.7			
10/4/2017					1.09	29.7	22.1
10/5/2017	1.11						
6/5/2018		15.2 (J)					
6/6/2018			2.3				
6/7/2018				25		29.1	
6/8/2018	1.1						21.9 (J)
6/11/2018					1.1		
10/1/2018	0.99	15.1	1.8	25		26.9	19.7
10/2/2018					1.1		
3/28/2019		13.3 (J)	2.2				
3/29/2019	1.1			23.5 (J)			
4/1/2019					1.3	30.1	20.4 (J)
9/24/2019		15.8	2.3	26.4			
9/25/2019	1.1				1.1	29.5	22.4
3/18/2020	1.1		2.1				
3/19/2020		15		27.4	1.2	31.5	21.9
9/23/2020		14.1	1.8	26.3		28.6	23.6
9/24/2020					1.1		
9/25/2020	1.3						
3/1/2021					1.2		
3/2/2021	1.2						
3/3/2021		14.1	1.8	25.6		29.8	20.6
8/19/2021	1.2	14.2	2		1.2	28.1	
8/27/2021				22.6			24.7

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		14.9	2.1	23.4		30.3	23.7
2/10/2022	1.3						
2/11/2022					1.5		
8/30/2022		14.9		25.4			
8/31/2022	1.3		1.9		1.3	28.7	23.5
2/7/2023		15	2.2	25.6			
2/8/2023	1.5				1.3	28.9	23.3

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	15	13	25	44			
6/9/2016					36	26	
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	
8/30/2016							20.9
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	
11/7/2016	13.8	12.1	26.1	34.9		25.1	
11/8/2016					33.8		
11/14/2016							18.6
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		
2/23/2017			28.2				
2/24/2017							16.1
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			14.6
6/30/2017			27.2	36.2			
7/5/2017					33.4		
7/7/2017						28.6	
7/10/2017	17.4	12.7					
7/11/2017							14.3
10/5/2017					36.4		
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					12.1
4/2/2018							<25
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
9/19/2018							11.1 (J)
10/2/2018	14.7	12.4 (J)	29.2	39.1			
10/3/2018					32.6	25.8	
3/27/2019							10.8 (J)
4/1/2019			27.4	38	33.8		
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					
9/26/2019			24.2	37.5	32	26.1	
10/8/2019							9.7
3/17/2020							14.8
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			
9/22/2020							10.1
9/24/2020	16.9	11.3	27.9	38.6	34.3	30.8	
3/1/2021							10.3
3/2/2021		12.9					
3/3/2021	16.1		25.7	30.2	30.9	28.4	
8/19/2021		11.5					9.6
8/20/2021	17.2		25.7	29.9	33.1	27.8	
2/8/2022				27.2	31.8	26.7	9.4
2/10/2022	16.4	11.6	27.4				

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	16.4	10.8					9.6
9/1/2022			28.2	21.3	26.3	33.1	
2/8/2023							9.2
2/9/2023	15.8	10.7	26.9	20.1	27.7	33.1	



# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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					
10/11/2017						2.74	
10/12/2017							2.9
11/20/2017						1.81	10.4
1/10/2018							10.2
1/11/2018						1.54	
2/19/2018							<25
2/20/2018						1.71	
4/3/2018						1.4	6.3
6/5/2018					9.1		
6/6/2018				2.3			
6/7/2018		4.8					
6/11/2018	2.1		1.4				
6/28/2018						1.4	6.7
8/7/2018						1.2	6.3
9/24/2018						1.1	5.7
9/25/2018	2.1	4.6	1	2.3	10.4 (J)		
3/26/2019							5.6
3/27/2019						1.5	
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		4.9	1.1				
10/9/2019						2.4	4.9
3/24/2020	2.7	5.3	1	2.6	6		4.8
3/25/2020						2.7	
9/23/2020	2.6	5.2	0.91 (J)				
9/24/2020				2.6	7.8	3.7	4.4
3/3/2021	2.5	5.2	0.96 (J)	2.4			
3/4/2021					8.7	8.2	4.6
8/26/2021			0.98 (J)			14.1	
8/27/2021	2.7	5.1		2.4			

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					9.5		
9/3/2021							5.6
2/8/2022						15.2	6
2/9/2022	2.8	5.1	0.87 (J)	2.3	9.8		
8/30/2022	3	5.7	0.77 (J)		7.3		
8/31/2022				2.4		16.3	6.2
2/7/2023	2.9	5.5	0.79 (J)	2.4	7.5	16.1	
2/8/2023							5.9

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/2/2016	8.8	33	2.4		
6/9/2016					12
7/26/2016	7.69	32.3	2.12		
8/2/2016					11.7
8/31/2016				9.31	
9/14/2016	8.49	31	2.18		
9/21/2016					11.1
11/2/2016	7.83	30.9			
11/4/2016			2.17 (J)		
11/7/2016					11.4
11/28/2016				9.47 (B)	
1/12/2017		35.7	2.37		
1/13/2017	8.08				
1/19/2017					12
2/22/2017				10.4	11.2
3/6/2017	8.64				
3/7/2017		32.7	2.34		
5/1/2017	13.4	37			
5/2/2017			2.17		
5/8/2017				14.2	11.2
6/27/2017		36.5	2.13		
6/29/2017	8.81				
7/5/2017					11.9
7/17/2017				14.1	
10/3/2017		30.9	2.15		
10/5/2017	9.29				12
10/16/2017				13.6	
2/19/2018				<25	
6/6/2018		26.2			
6/7/2018	8.2		2.3		
6/11/2018					12.1
8/6/2018				11.4 (J)	
9/26/2018	9.5 (J)	25.8	2.3		
10/2/2018					11.7 (J)
2/25/2019				12.7 (J)	
4/1/2019					11.9 (J)
4/3/2019	8.4	24.7 (J)	2.8		
6/12/2019				18.9	
9/24/2019		25.8	2.5		
9/25/2019	9.5				10.7
10/8/2019				28.3	
3/17/2020				24.3	
3/20/2020					12.7
3/24/2020		26.1	2.5		
3/25/2020	10.5				
9/22/2020	9.6	27.2	2.6	31	
9/24/2020					12.4
3/2/2021		1.6	2.6	34.2	
3/3/2021	7.7				9.5
8/20/2021				26.5	10.2
8/26/2021	7.6	25.2	2.5		
2/8/2022				25.6	9.3

# Time Series

Constituent: Calcium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/10/2022		24.8	2.5		
2/11/2022	7.5				
8/30/2022		24.8	2.5	23.5	
8/31/2022	8.9				
9/1/2022					11
2/7/2023		26.6		22.3	
2/8/2023					11.9
2/9/2023	9.6		2.8		

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6				1.3
6/2/2016	4.1				1.9	1.4	
7/25/2016			1.4		1.7		1.3
7/26/2016	4	1.2				1.6	
9/13/2016		1.1	1.3				
9/14/2016				1.1			1.3
9/15/2016	4.2					1.5	
9/19/2016					1.6		
11/1/2016		1.3			1.8	1.7	1.4
11/2/2016	4.9						
11/4/2016			1.6	1.4			
12/15/2016				2.9			
1/10/2017	4.1						
1/11/2017		1.1				1.2	1.1
1/16/2017			1.4	0.98	1.7		
2/21/2017					1.7		
3/1/2017							1.1
3/2/2017		1	1.3			1.2	
3/3/2017				1.1			
3/8/2017	4.2						
4/26/2017	4.1				1.7	1.2	1.1
4/27/2017		1	1.3				
4/28/2017				0.91			
5/26/2017				0.93			
6/27/2017		1.1	1.4				
6/28/2017				1		1.3	1.2
6/30/2017	3.7				1.8		
10/3/2017		1.1	1.7	1.2			
10/4/2017					1.8	1.5	1.2
10/5/2017	3.8						
6/5/2018		1.1					
6/6/2018			1.4				
6/7/2018				1		1.2	
6/8/2018	3.4						1.2
6/11/2018					2		
10/1/2018	3.8	1.1	1.4	1.1		1.5	1.2
10/2/2018					1.8		
3/28/2019		1.4	1.5				
3/29/2019	4.2			1.2			
4/1/2019					1.7	1.2	1.1
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019	4.8				1.6	1.1	1.1
3/18/2020	5.2		1.4				
3/19/2020		1.1		0.97 (J)	1.8	1.2	1.1
9/23/2020		0.99 (J)	1.2	0.88 (J)		1.1	1
9/24/2020					1.5		
9/25/2020	5.3						
3/1/2021					1.6		
3/2/2021	4.9						
3/3/2021		0.96 (J)	1.2	0.86 (J)		1.1	0.99 (J)
8/19/2021	5	1.1	1.3		1.6	1.1	
8/27/2021				0.99 (J)			1.1

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		1	1.3	1 (J)		1.1	1.1
2/10/2022	4.7						
2/11/2022					2.1		
8/30/2022		1.3		1.2			
8/31/2022	4.6		1.5		1.8	1.3	1.3
2/7/2023		1.3	1.5	1.1			
2/8/2023	4.9				1.6	1.2	1.1

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	19	18	14	22			
6/9/2016					18	19	
8/1/2016	17	16	13	21			
8/2/2016					18	18	
8/30/2016							5.2
9/20/2016	18	18	13	22			
9/21/2016					18	19	
11/7/2016	17	16	14	24		20	
11/8/2016					18		
11/14/2016							6.4
1/18/2017	19	17	14		18	20	
1/19/2017				22			
2/21/2017	18	16				19	
2/22/2017				21	18		
2/23/2017			14				
2/24/2017							5.5
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			5.8
6/30/2017			14	21			
7/5/2017					18		
7/7/2017						20	
7/10/2017	19	15					
7/11/2017							5.8
10/5/2017					19		
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					5.9
4/2/2018							4.8
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
9/19/2018							4
10/2/2018	18.3	14	13.8	19.9			
10/3/2018					17.7	20.2	
3/27/2019							4.3
4/1/2019			14.2	19.7	17.2		
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					
9/26/2019			14.3	19.6	17.3	19.5	
10/8/2019							4.4
3/17/2020							4.1
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			
9/22/2020							4.2
9/24/2020	17.1	15.7	13.3	17	15.1	18	
3/1/2021							3.7
3/2/2021		13.2					
3/3/2021	16.6		13	4	14.6	18	
8/19/2021		13.5					3.5
8/20/2021	14.4		13.7	15.2	15.2	18.1	
2/8/2022				13	15.2	18.3	3.2
2/10/2022	15.4	14	13.1				

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	16.6	15					3.5
9/1/2022			13.4	10.4	10.4	16.5	
2/8/2023							3.5
2/9/2023	16.6	15.1	13.9	11.5	11.5	18.1	



# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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					
10/11/2017						2.4	
10/12/2017							3.8
11/20/2017						1.8	4.4
1/10/2018							4.6
1/11/2018						1.6	
2/19/2018							4.6
2/20/2018						2	
4/3/2018						3.3	5.9
6/5/2018					1.7		
6/6/2018				2.7			
6/7/2018		6.8					
6/11/2018	4.9		6.8				
6/28/2018						2.1	5
8/7/2018						1.2	4.3
9/24/2018						1.3	4.9
9/25/2018	5.6	7.9	7.8	3.6	2.2		
3/26/2019							4.4
3/27/2019						1.4	
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		7	7.1				
10/9/2019						2.1	5.1
3/24/2020	5	7	6.8	2.7	2.8		4.7
3/25/2020						1.9	
9/23/2020	6.6	7.2	7.2				
9/24/2020				2.7	2	2.7	5
3/3/2021	7.1	7	7.2	2.7			
3/4/2021					1.8	4.9	4.9
8/26/2021			7.3			7.2	
8/27/2021	8.5	7.4		2.8			

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					1.8		
9/3/2021							5.5
2/8/2022						7.4	6.2
2/9/2022	10.9	7.5	7	2.8	1.7		
8/30/2022	12	7.9	7		2.4		
8/31/2022				2.9		6.7	6.3
2/7/2023	11.4	7.4	6.4	2.9	2.4	5.6	
2/8/2023							6.9

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/2/2016	3.7	7.2	4.3		
6/9/2016					15
7/26/2016	3.6	6.6	4.4		
8/2/2016					14
8/31/2016				4	
9/14/2016	3.4	6.6	3.8		
9/21/2016					14
11/2/2016	4.5	7.6			
11/4/2016			4.8		
11/7/2016					14
11/28/2016				4.2	
1/12/2017		6.8	3.8		
1/13/2017	4.2				
1/19/2017					14
2/22/2017				3.7	13
3/6/2017	3.6				
3/7/2017		6.8	4.5		
5/1/2017	4.3	7.2			
5/2/2017			4.6		
5/8/2017				4.2	15
6/27/2017		7	4.3		
6/29/2017	4.2				
7/5/2017					14
7/17/2017				3.8	
10/3/2017		6.5	4.2		
10/5/2017	4.7				15
10/16/2017				4.2	
2/19/2018				4.3	
6/6/2018		4.7			
6/7/2018	4.4		4.5		
6/11/2018					13.6
8/6/2018				3.8	
9/26/2018	4.8	4.8	5.1		
10/2/2018					13.4
2/25/2019				4.1	
4/1/2019					13.1
4/3/2019	4.3	4	4.2		
6/12/2019				4.7	
9/24/2019		3.7	4.5		
9/25/2019	4.5				11.3
10/8/2019				5.1	
3/17/2020				4.8	
3/20/2020					11.3
3/24/2020		3.5	4.3		
3/25/2020	3.9				
9/22/2020	4.5	3.6	4.2	4.2	
9/24/2020					10.9
3/2/2021		3.2	4.3	4.1	
3/3/2021	4.1				6.7
8/20/2021				5.2	6.8
8/26/2021	4.4	3.4	4.3		
2/8/2022				5.7	5.5

# Time Series

Constituent: Chloride (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/10/2022		3.2	4.4		
2/11/2022	4.1				
8/30/2022		3.5	4.4	6.3	
8/31/2022	4.4				
9/1/2022					8.1
2/7/2023		3.3		6.1	
2/8/2023					10.4
2/9/2023	4.5		5		

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0035	<0.005				<0.005
6/2/2016	<0.005				<0.005	0.0013 (J)	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0009 (J)	0.0004 (J)			0.0006 (J)	
3/3/2017				0.0005 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0016 (J)	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				0.0004 (J)			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.0021 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.00072 (J)	0.0028 (J)	<0.005			
9/25/2019	<0.005				<0.005	0.0014 (J)	0.0019 (J)
2/10/2020		0.00042 (J)	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005	<0.005
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					<0.005		
8/30/2022		0.0011 (J)		<0.005			
8/31/2022	<0.005		<0.005		<0.005	<0.005	<0.005
2/7/2023		<0.005	0.0013 (J)	<0.005			
2/8/2023	<0.005				0.0021 (J)	<0.005	<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	
8/30/2016							<0.005
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	
11/8/2016					<0.005		
11/14/2016							0.0093 (J)
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		
2/23/2017			<0.005				
2/24/2017							<0.005
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
7/11/2017							<0.005
10/10/2017							<0.005
3/29/2018			<0.005	<0.005			
3/30/2018	<0.005	<0.005			<0.005	<0.005	
4/2/2018							<0.005
9/19/2018							<0.005
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	
4/1/2019			<0.005	<0.005	<0.005		
4/2/2019	<0.005	0.003 (J)				<0.005	
8/20/2019							<0.005
9/25/2019	0.00048 (J)	0.0012 (J)					
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			
8/27/2020							<0.005
9/22/2020							<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/1/2021							<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	
8/19/2021		0.0012 (J)					<0.005
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
9/1/2022			<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005
2/9/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	



# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
10/11/2017						<0.005	
10/12/2017							<0.005
11/20/2017						<0.005	<0.005
1/10/2018							<0.005
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	<0.005				
3/29/2018				<0.005	<0.005		
4/3/2018						<0.005	<0.005
6/28/2018						<0.005	<0.005
8/7/2018						<0.005	<0.005
9/24/2018						<0.005	<0.005
3/5/2019	<0.005		<0.005	<0.005	<0.005		
3/6/2019		<0.005					
8/21/2019						<0.005	0.00053 (J)
10/9/2019						<0.005	0.0012 (J)
2/11/2020	0.00087 (J)	0.001 (J)	0.00088 (J)				
2/12/2020				0.00045 (J)	<0.005	<0.005	0.00065 (J)
3/24/2020	0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005		0.00055 (J)
3/25/2020						<0.005	
9/23/2020	0.00098 (J)	0.00092 (J)	0.0012 (J)				
9/24/2020				0.00076 (J)	<0.005	<0.005	<0.005
2/9/2021		0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005		
2/10/2021						<0.005	<0.005
3/3/2021	0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005			
3/4/2021					<0.005	<0.005	<0.005
8/26/2021			<0.005			<0.005	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					<0.005		
9/3/2021							<0.005
2/8/2022						<0.005	<0.005
2/9/2022	<0.005	<0.005	0.0014 (J)	<0.005	<0.005		
8/30/2022	<0.005	<0.005	0.0015 (J)		<0.005		
8/31/2022				<0.005		<0.005	<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/7/2023	<0.005	<0.005	0.0016 (J)	<0.005	<0.005	<0.005	
2/8/2023							<0.005

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	<0.005	<0.005	<0.005		
6/9/2016					<0.005
7/26/2016	<0.005	<0.005	<0.005		
8/2/2016					0.0005 (J)
8/31/2016				<0.005	
9/14/2016	<0.005	<0.005	<0.005		
9/21/2016					<0.005
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				<0.005	
1/12/2017		<0.005	<0.005		
1/13/2017	<0.005				
1/19/2017					<0.005
2/22/2017				<0.005	<0.005
3/6/2017	<0.005				
3/7/2017		<0.005	<0.005		
5/1/2017	<0.005	0.0004 (J)			
5/2/2017			<0.005		
5/8/2017				<0.005	<0.005
6/27/2017		<0.005	<0.005		
6/29/2017	<0.005				
7/5/2017					<0.005
7/17/2017				<0.005	
10/16/2017				<0.005	
2/19/2018				<0.005	
3/29/2018	<0.005	<0.005	<0.005		<0.005
8/6/2018				<0.005	
2/25/2019				<0.005	
2/27/2019					<0.005
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
6/12/2019				<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
8/19/2019				<0.005	
9/25/2019					<0.005
10/8/2019				<0.005	
2/12/2020	<0.005	<0.005	0.00043 (J)		
2/13/2020					<0.005
3/17/2020				<0.005	
3/20/2020					<0.005
3/24/2020		<0.005	0.0014 (J)		
3/25/2020	0.00058 (J)				
8/26/2020				<0.005	
9/22/2020	<0.005	0.0011 (J)	<0.005	<0.005	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					<0.005
3/2/2021		<0.005	<0.005	<0.005	
3/3/2021	0.0013 (J)				<0.005
8/20/2021				<0.005	<0.005
8/26/2021	<0.005	<0.005	<0.005		
2/8/2022				<0.005	<0.005
2/10/2022		<0.005	<0.005		
2/11/2022	<0.005				
8/30/2022		<0.005	<0.005	<0.005	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		<0.005		<0.005	
2/8/2023					<0.005
2/9/2023	<0.005		0.0012 (J)		

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	0.00082 (J)				<0.005
6/2/2016	<0.005				0.035	<0.005	
7/25/2016			0.0008 (J)		0.0312		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	0.0009 (J)				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					0.0275		
11/1/2016		<0.005			0.0255	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			0.0025 (J)	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005	0.0245		
2/21/2017					0.0272		
3/1/2017							<0.005
3/2/2017		<0.005	0.0022 (J)			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0244	<0.005	<0.005
4/27/2017		<0.005	0.0018 (J)				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	0.0023 (J)				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				0.0233		
3/27/2018	<0.005		<0.005		0.023		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
6/5/2018		<0.005					
6/6/2018			<0.005				
6/7/2018				<0.005		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					0.023		
10/1/2018	<0.005	<0.005	0.00059 (J)	<0.005		<0.005	<0.005
10/2/2018					0.022		
2/26/2019	<0.005				0.021		
2/27/2019		<0.005	0.00064 (J)	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					0.022	<0.005	<0.005
9/24/2019		<0.005	0.0013 (J)	<0.005			
9/25/2019	<0.005				0.016	<0.005	<0.005
2/10/2020		<0.005	0.0016 (J)				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				0.014	<0.005	
3/18/2020	<0.005		0.00087 (J)				
3/19/2020		<0.005		<0.005	0.014	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005		<0.005	<0.005
9/24/2020					0.0064		
9/25/2020	<0.005						

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					0.0078		
2/12/2021		0.00086 (J)	0.0028 (J)				
3/1/2021					0.0061		
3/2/2021	<0.005						
3/3/2021		<0.005	0.003 (J)	<0.005		<0.005	<0.005
8/19/2021	<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					0.0038 (J)		
8/30/2022		<0.005		<0.005			
8/31/2022	<0.005		0.00085 (J)		0.004 (J)	<0.005	<0.005
2/7/2023		0.00097 (J)	0.0048 (J)	<0.005			
2/8/2023	<0.005				0.0031 (J)	<0.005	<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	
8/30/2016							0.0073 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	
11/8/2016					<0.005		
11/14/2016							0.0115
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			
2/21/2017	<0.005	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.005		
2/23/2017			0.002 (J)				
2/24/2017							0.0106
5/3/2017		0.002 (J)					
5/5/2017					<0.005	0.0012 (J)	
5/8/2017	<0.005		0.0029 (J)	0.0023 (J)			0.0099 (J)
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.005		
7/7/2017						0.0012 (J)	
7/10/2017	<0.005	0.002 (J)					
7/11/2017							0.0096 (J)
10/10/2017							0.0036 (J)
3/29/2018			0.0495 (D)	<0.005			
3/30/2018	<0.005	<0.005			<0.005	<0.005	
4/2/2018							<0.005
6/12/2018				0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	<0.005	0.0017 (J)	0.092				
9/19/2018							0.0036 (J)
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			
10/3/2018					<0.005	0.0013 (J)	
2/27/2019	<0.005	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	
4/1/2019			0.025	0.0023 (J)	<0.005		
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
8/20/2019							0.00092 (J)
9/25/2019	<0.005	0.0033 (J)					
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
10/8/2019							0.0014 (J)
2/13/2020	<0.005	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	
3/17/2020							0.0017 (J)
3/19/2020		0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020	<0.005		0.014	0.0022 (J)			
8/27/2020							0.0011 (J)
9/22/2020							0.00097 (J)
9/24/2020	<0.005	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	
2/10/2021	<0.005	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/1/2021							0.001 (J)
3/2/2021		0.0021 (J)					

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	<0.005		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	
8/19/2021		0.0017 (J)					0.00099 (J)
8/20/2021	<0.005		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	
2/8/2022				0.0017 (J)	<0.005	0.00091 (J)	0.0013 (J)
2/10/2022	<0.005	0.0026 (J)	0.0051				
8/31/2022	<0.005	0.0026 (J)					0.00096 (J)
9/1/2022			0.0096	0.0015 (J)	<0.005	0.00071 (J)	
2/8/2023							0.0011 (J)
2/9/2023	<0.005	0.0017 (J)	0.0083	0.0015 (J)	<0.005	0.00074 (J)	



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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)		
10/11/2017						<0.005	
10/12/2017							<0.005
11/20/2017						<0.005	<0.005
1/10/2018							<0.005
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	<0.005				
3/29/2018				<0.005	<0.005		
4/3/2018						<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				
6/28/2018						<0.005	<0.005
8/7/2018						<0.005	<0.005
9/24/2018						<0.005	<0.005
9/25/2018	<0.005	<0.005	<0.005	<0.005	0.0044 (J)		
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			
8/21/2019						0.00034 (J)	<0.005
9/24/2019					0.0032 (J)		
9/25/2019	<0.005			<0.005			
9/26/2019		<0.005	<0.005				
10/9/2019						<0.005	<0.005
2/11/2020	<0.005	<0.005	<0.005				
2/12/2020				<0.005	0.0081	0.00034 (J)	<0.005
3/24/2020	<0.005	<0.005	<0.005	<0.005	0.0061		<0.005
3/25/2020						0.00034 (J)	
9/23/2020	<0.005	<0.005	<0.005				
9/24/2020				<0.005	0.0079	0.00053 (J)	<0.005
2/9/2021		<0.005	<0.005	<0.005	0.009		
2/10/2021						0.00098 (J)	<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.005	<0.005	<0.005	<0.005			
3/4/2021					0.0065	0.00071 (J)	<0.005
8/26/2021			<0.005			0.0011 (J)	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					0.0068		
9/3/2021							<0.005
2/8/2022						0.0012 (J)	<0.005
2/9/2022	<0.005	<0.005	<0.005	<0.005	0.0078		
8/30/2022	<0.005	<0.005	<0.005		0.0066		
8/31/2022				<0.005		0.00085 (J)	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	0.014	0.00066 (J)	
2/8/2023							<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	0.00082 (J)	<0.005	<0.005		
6/9/2016					0.00052 (J)
7/26/2016	0.0012 (J)	<0.005	<0.005		
8/2/2016					0.0006 (J)
8/31/2016				0.0053 (J)	
9/14/2016	0.0006 (J)	<0.005	<0.005		
9/21/2016					0.0007 (J)
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				0.0036 (J)	
1/12/2017		<0.005	<0.005		
1/13/2017	0.0029 (J)				
1/19/2017					<0.005
2/22/2017				0.0049 (J)	<0.005
3/6/2017	0.0006 (J)				
3/7/2017		<0.005	<0.005		
5/1/2017	<0.005	<0.005			
5/2/2017			<0.005		
5/8/2017				0.0059 (J)	<0.005
6/27/2017		<0.005	<0.005		
6/29/2017	0.0005 (J)				
7/5/2017					0.0003 (J)
7/17/2017				0.0046 (J)	
10/16/2017				0.0034 (J)	
2/19/2018				<0.005	
3/29/2018	<0.005	<0.005	<0.005		<0.005
6/6/2018		<0.005			
6/7/2018	0.00058 (J)		<0.005		
6/11/2018					<0.005
8/6/2018				0.003 (J)	
9/26/2018	<0.005	<0.005	<0.005		
10/2/2018					<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/25/2019				0.001 (J)	
2/27/2019					<0.005
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
4/3/2019	0.00083 (J)	<0.005	<0.005		
6/12/2019				0.003 (J)	
8/19/2019				0.0035 (J)	
9/24/2019		<0.005	<0.005		
9/25/2019	<0.005				<0.005
10/8/2019				0.0039 (J)	
2/12/2020	<0.005	0.00037 (J)	<0.005		
2/13/2020					<0.005
3/17/2020				0.003 (J)	
3/20/2020					<0.005
3/24/2020		0.00035 (J)	<0.005		
3/25/2020	0.00056 (J)				
8/26/2020				0.2 (O)	
9/22/2020	<0.005	<0.005	<0.005	0.16 (O)	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					0.00094 (J)
3/2/2021		<0.005	<0.005	0.21 (O)	
3/3/2021	<0.005				<0.005
8/20/2021				0.074 (O)	<0.005
8/26/2021	0.00042 (J)	<0.005	<0.005		
2/8/2022				0.072 (O)	<0.005
2/10/2022		<0.005	<0.005		
2/11/2022	<0.005				
8/30/2022		<0.005	<0.005	0.075 (O)	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		<0.005		0.034	
2/8/2023					0.0053
2/9/2023	<0.005		<0.005		

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.321 (U)	0.42				0.896
6/2/2016	0.329 (U)				0.0652 (U)	2.51	
7/25/2016			1.83		3.01		2.28
7/26/2016	1.51	0.707 (U)				3.82	
9/13/2016		1.22	0.841				
9/14/2016				0.98 (U)			0.821 (U)
9/15/2016	1.04 (U)					4.24	
9/19/2016					0.871 (U)		
11/1/2016		0.805 (U)			0.307 (U)	3.92	0.585 (U)
11/2/2016	0.496 (U)						
11/4/2016			0.166 (U)	0.277 (U)			
12/15/2016				0.071 (U)			
1/10/2017	0.376 (U)						
1/11/2017		0.705 (U)				2.52	1.22
1/16/2017			0	0.44 (U)	0.284 (U)		
2/21/2017					0.503 (U)		
3/1/2017							0.877 (U)
3/2/2017		0.251 (U)	0.504 (U)			3.13	
3/3/2017				0.448 (U)			
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)				0.204 (U)	2.35	0.672 (U)
4/27/2017		1.08	0.593 (U)				
4/28/2017				0.548 (U)			
5/26/2017				0 (U)			
6/27/2017		1.02 (U)	0.657 (U)				
6/28/2017				0.608 (U)		2.6	1.07 (U)
6/30/2017	0.994				0.738 (U)		
3/27/2018	0.189 (U)		0.39 (U)		0.31 (U)		
3/28/2018				0.412 (U)		3	0.65 (U)
3/29/2018		0.503 (U)					
6/5/2018		0.771 (U)					
6/6/2018			2.8				
6/7/2018				0.73 (U)		2.79	
6/8/2018	0.218 (U)						1.89
6/11/2018					0.608 (U)		
10/1/2018	1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14	1.58
10/2/2018					0.97 (U)		
2/26/2019	0.202 (U)				0.524 (U)		
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)		3.79	3.67
3/28/2019		1.13 (U)	0.125 (U)				
3/29/2019	0 (U)			0.224 (U)			
4/1/2019					1.02 (U)	4.33	2.28
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)			
9/25/2019	0.707 (U)				1.02 (U)	4.2	1.6
2/10/2020		1.41	1.25 (U)				
2/11/2020				0.817 (U)		3.87	1.85
2/12/2020	1.07 (U)				0.301 (U)		
3/18/2020	0.207 (U)		0.458 (U)				
3/19/2020		1.1		0.715 (U)	1	3.96	2.2
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)		4.14	1.14 (U)
9/24/2020					0.684 (U)		
9/25/2020	0.603 (U)						

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.353 (U)			1.04 (U)		3.65	2.46
2/11/2021					0.678 (U)		
2/12/2021		0.366 (U)	0.458 (U)				
3/1/2021					0.412 (U)		
3/2/2021	0.71 (U)						
3/3/2021		0.492 (U)	0.105 (U)	0.459 (U)		3.58	2.03
8/19/2021	0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53	
8/27/2021				0.409 (U)			1.34
2/9/2022		1.19	0.422 (U)	0.894 (U)		3.28	1.91
2/10/2022	0 (U)				0.268 (U)		
8/30/2022		0.827		0.699 (U)			
8/31/2022	0.421 (U)		0.49 (U)		0.506 (U)	2.12	1.33
2/7/2023		0.92 (U)	0.661 (U)	0.536 (U)			
2/8/2023	0.83 (U)				0.417 (U)	2.74	1.18

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	
8/30/2016							1.09
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	
11/8/2016					0.245 (U)		
12/15/2016							1 (U)
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		
2/23/2017			4.73				
2/24/2017							0.504 (U)
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.455 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
7/11/2017							0.471 (U)
10/10/2017							0.649 (U)
3/29/2018			1.41	0.916 (U)			
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
4/2/2018							0.512 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
9/19/2018							0.789 (U)
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	
4/1/2019			5	0.777 (U)	0.162 (U)		
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
8/20/2019							2.44
9/25/2019	1.01 (U)	1.18 (U)					
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
10/8/2019							1.72
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	
3/17/2020							1.22 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			
8/27/2020							1.26 (U)
9/22/2020							1.06 (U)
9/24/2020	<1.53	<1.9	3.42	1.49	<2.15	<1.86	
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	
3/1/2021							1.2
3/2/2021		0.394 (U)					

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	
8/19/2021		0.531 (U)					1.07 (U)
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.4 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					0.714 (U)
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	
2/8/2023							0.375 (U)
2/9/2023	1.05 (U)	0.46 (U)	2.56	0.348 (U)	0.164 (U)	0.733 (U)	



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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)		
10/11/2017						0.586 (U)	
10/12/2017							1.49
11/20/2017						0.816 (U)	0.918 (U)
1/10/2018							1.05
1/11/2018						0.841 (U)	
2/19/2018							2.05
2/20/2018						1.58	
3/28/2018	0.438 (U)	0.92 (U)	0.56 (U)				
3/29/2018				1.73	1.91		
4/3/2018						0.385 (U)	0.68 (U)
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)				
6/28/2018						0.283 (U)	1.28
8/7/2018						0.332 (U)	1.16
9/24/2018						0.767 (U)	0.965 (U)
9/25/2018	0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62		
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			
8/21/2019						1.01 (U)	1.24 (U)
9/24/2019					1.35		
9/25/2019	0.412 (U)			1.18 (U)			
9/26/2019		0.386 (U)	0.222 (U)				
10/8/2019						1.02 (U)	0.866 (U)
2/11/2020	0.461 (U)	1.48	0.597 (U)				
2/12/2020				1.11 (U)	1.61	0.45 (U)	1.83
3/24/2020	0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)		1.27 (U)
3/25/2020						0.377 (U)	
9/23/2020	0.466 (U)	0.887 (U)	0.43 (U)				
9/24/2020				0.611 (U)	1.8	0.568 (U)	0.634 (U)
2/9/2021	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24		
2/10/2021						0.518 (U)	0.783 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2		
3/4/2021						0.636 (U)	0.818 (U)
8/26/2021			0.686 (U)			0.674 (U)	
8/27/2021	0.9 (U)	0.761 (U)		0.779 (U)			
9/1/2021					1.86		
9/3/2021							0.971 (U)
2/8/2022						0.834	0.534 (U)
2/9/2022	0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)	1.94		
8/30/2022	1.08	1.01	0.611 (U)		1.27		
8/31/2022				0.184 (U)		0.937	0.513 (U)
2/7/2023	0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)	1.53	1.41	
2/8/2023							1.56

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/2/2016	0.721	5.11	0.614		
6/9/2016					0.523
7/26/2016	1.26	6.92	1.47		
8/2/2016					1.25
8/31/2016				1.2	
9/14/2016	0.901 (U)	3.96	1.27		
9/21/2016					1.21 (U)
11/2/2016	1.09 (U)	4.53			
11/4/2016			0.434 (U)		
11/7/2016					1.16
11/28/2016				0.264 (U)	
1/12/2017		4.43	0.202 (U)		
1/13/2017	1.19				
1/19/2017					0.933 (U)
2/22/2017				1.06 (U)	1.45 (U)
3/6/2017	0.669 (U)				
3/7/2017		4.8	0.0674 (U)		
5/1/2017	0.803 (U)	4.16			
5/2/2017			0.444 (U)		
5/8/2017				0.187 (U)	0.21 (U)
6/27/2017		2.8	0.77 (U)		
6/29/2017	1.35				
7/5/2017					0.62 (U)
7/17/2017				1.42	
10/16/2017				1.17	
2/19/2018				1.58 (D)	
3/29/2018	0.703 (U)	3.42	0.648 (U)		1.37
6/6/2018		3.99			
6/7/2018	0.628 (U)		0.745 (U)		
6/11/2018					1.27 (U)
8/6/2018				0.196 (U)	
9/26/2018	0.756 (U)	2.73	0.377 (U)		
10/2/2018					0.442 (U)
2/27/2019					0.902 (U)
3/4/2019	1.21 (U)	4.43	1 (U)		
4/1/2019					0.584 (U)
4/3/2019	1.07 (U)	4.79	0.43 (U)		
8/19/2019				1.39	
9/24/2019		4.06	0.699 (U)		
9/25/2019	1.86				1.03 (U)
10/8/2019				1.32 (U)	
2/12/2020	1.25	4.02	0.913 (U)		
2/13/2020					0.806 (U)
3/17/2020				1 (U)	
3/20/2020					1.42
3/24/2020		3.52			
3/25/2020	0.766 (U)				
8/26/2020				1.75	
9/22/2020	0.795 (U)	2.98	0.428 (U)	0.688 (U)	
9/24/2020					<1.88
2/8/2021		2.89	0.613 (U)		
2/9/2021	0.626 (U)				

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/12/2021					0.826
3/2/2021		1.67	0.579 (U)	0.948 (U)	
3/3/2021	1				0.955
8/20/2021				0.528 (U)	0.314 (U)
8/26/2021	1.17 (U)	4.68	0.798 (U)		
2/8/2022				0.462 (U)	0.104 (U)
2/10/2022		3.33	0.375 (U)		
2/11/2022	0.996				
8/30/2022		5.34	0.72 (U)	1.52	
8/31/2022	0.962				
9/1/2022					0.445 (U)
2/7/2023		3.99		1	
2/8/2023					0.963 (U)
2/9/2023	1.12		0.0815 (U)		

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.12 (J)	<0.1				0.15 (J)
6/2/2016	<0.1				<0.1	0.62	
7/25/2016			0.06 (J)		0.06 (J)		0.14 (J)
7/26/2016	0.02 (J)	0.08 (J)				0.49	
9/13/2016		0.11 (J)	<0.1				
9/14/2016				0.08 (J)			0.18 (J)
9/15/2016	<0.1					0.54	
9/19/2016					<0.1		
11/1/2016		<0.3			<0.1	0.68	<0.1
11/2/2016	<0.1						
11/4/2016			<0.1	<0.3			
12/15/2016				0.06 (J)			
1/10/2017	<0.1						
1/11/2017		0.05 (J)				0.49	0.09 (J)
1/16/2017			<0.1	0.1 (J)	<0.1		
2/21/2017					<0.1		
3/1/2017							<0.1
3/2/2017		<0.3	<0.1			0.48	
3/3/2017				<0.3			
3/8/2017	<0.1						
4/26/2017	<0.1				<0.1	0.48	0.08 (J)
4/27/2017		0.04 (J)	0.01 (J)				
4/28/2017				0.06 (J)			
5/26/2017				0.09 (J)			
6/27/2017		<0.3	<0.1				
6/28/2017				0.11 (J)		0.47	0.12 (J)
6/30/2017	<0.1				<0.1		
10/3/2017		<0.3	<0.1	<0.3			
10/4/2017					<0.1	<0.47	<0.1
10/5/2017	<0.1						
3/27/2018	<0.1		<0.1		<0.1		
3/28/2018				0.31		0.56	<0.1
3/29/2018		<0.3					
6/5/2018		0.055 (J)					
6/6/2018			<0.1				
6/7/2018				0.11 (J)		0.48	
6/8/2018	<0.1						0.2 (J)
6/11/2018					<0.1		
10/1/2018	<0.1	<0.3	<0.1	<0.3		0.44	<0.1
10/2/2018					<0.1		
2/26/2019	<0.1				<0.1		
2/27/2019		0.052 (J)	<0.1	0.12 (J)		0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.1				
3/29/2019	<0.1			0.13 (J)			
4/1/2019					<0.1	0.45	0.1 (J)
9/24/2019		0.063 (J)	<0.1	0.081 (J)			
9/25/2019	<0.1				<0.1	0.46	0.1 (J)
2/10/2020		0.061 (J)	<0.1				
2/11/2020				0.075 (J)			0.094 (J)
2/12/2020	<0.1				<0.1	0.4	
3/18/2020	<0.1		<0.1				
3/19/2020		0.064 (J)		0.093 (J)	<0.1	0.51	0.11 (J)

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		0.058 (J)	<0.1	0.08 (J)		0.47	0.098 (J)
9/24/2020					<0.1		
9/25/2020	<0.1						
2/10/2021	<0.1			0.094 (J)		0.43	<0.1
2/11/2021					<0.1		
2/12/2021		0.068 (J)	<0.1				
3/1/2021					<0.1		
3/2/2021	<0.1						
3/3/2021		0.078 (J)	<0.1	0.085 (J)		0.44	0.1
8/19/2021	<0.1	0.074 (J)	<0.1		<0.1	0.47	
8/27/2021				0.12			0.12
2/9/2022		0.057 (J)	<0.1	0.094 (J)		0.43	0.097 (J)
2/10/2022	<0.1						
2/11/2022					<0.1		
8/30/2022		0.093 (J)		0.12			
8/31/2022	0.053 (J)		0.065 (J)		0.06 (J)	0.42	0.13
2/7/2023		0.093 (J)	0.071 (J)	0.12			
2/8/2023	0.059 (J)				0.064 (J)	0.56	0.16

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	
8/30/2016							0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.3	0.32			
9/21/2016					0.08 (J)	0.25 (J)	
11/7/2016	<0.1 (*)	0.44	<0.3 (*)	<0.1 (*)		0.27 (J)	
11/8/2016					0.24 (J)		
11/14/2016							0.18 (J)
1/18/2017	0.11 (J)	<0.1 (*)	<0.3 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.3 (*)		
2/23/2017			<0.3 (*)				
2/24/2017							0.05 (J)
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.03 (J)
6/30/2017			<0.3 (*)	0.2 (J)			
7/5/2017					0.11 (J)		
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
7/11/2017							0.07 (J)
10/5/2017					<0.3 (*)		
10/6/2017				<0.1 (*)			
10/9/2017			<0.3 (*)			<0.3 (*)	
10/10/2017	<0.1	<0.1					<0.1
3/29/2018			<0.3	0.49			
3/30/2018	<0.1	0.35			<0.3	<0.3	
4/2/2018							<0.1
6/12/2018				0.037 (J)	<0.3	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.3				
9/19/2018							<0.1
10/2/2018	<0.1	<0.1	<0.3	<0.1			
10/3/2018					<0.3	0.31	
2/27/2019	<0.1	<0.1	<0.3	0.14 (J)	0.14 (J)	0.22 (J)	
3/27/2019							0.081 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
8/20/2019							<0.1
9/25/2019	0.064 (J)	<0.1					
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
10/8/2019							0.034 (J)
2/13/2020	<0.1	<0.1	<0.3	0.11 (J)	0.14 (J)	0.18 (J)	
3/17/2020							<0.1
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.3	0.097 (J)			
8/27/2020							<0.1
9/22/2020							<0.1
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	
3/1/2021							<0.1
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	
8/19/2021		<0.1					<0.1
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	
2/8/2022				0.087 (J)	0.063 (J)	0.14	<0.1
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					0.065 (J)
9/1/2022			0.1	0.12	0.11	0.16	
2/8/2023							0.077 (J)
2/9/2023	0.088 (J)	0.07 (J)	0.1	0.12	0.14	0.18	



# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.1	<0.1				
6/7/2016	<0.1			<0.1	<0.3		
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		<0.3		
1/11/2017	<0.1	<0.1	<0.1				
1/13/2017				<0.1	<0.3		
3/1/2017		<0.1	<0.1				
3/2/2017	<0.1						
3/6/2017				<0.1	<0.3		
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	<0.3		
10/3/2017					<0.3		
10/4/2017	<0.1		<0.1	<0.1			
10/5/2017		<0.1					
10/11/2017						<0.1	
10/12/2017							<0.1
11/20/2017						<0.1	<0.1
1/10/2018							<0.1
1/11/2018						<0.1	
2/19/2018							<0.1
2/20/2018						0.23	
3/28/2018	<0.1	<0.1	<0.1				
3/29/2018				<0.1	<0.3		
4/3/2018						<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				
6/28/2018						<0.1	<0.1
8/7/2018						0.048 (J)	<0.1
9/24/2018						<0.1	<0.1
9/25/2018	<0.1	<0.1	<0.1	<0.1	0 (J)		
3/5/2019	<0.1		<0.1	<0.1	0.32		
3/6/2019		<0.1					
3/26/2019							<0.1
3/27/2019						<0.1	
4/2/2019	<0.1				0.12 (J)		
4/3/2019		<0.1	<0.1	<0.1			
8/21/2019						<0.1	<0.1
9/24/2019					0.15 (J)		
9/25/2019	<0.1			<0.1			
9/26/2019		<0.1	<0.1				
10/9/2019						<0.1	<0.1
2/11/2020	<0.1	<0.1	<0.1				
2/12/2020				<0.1	0.1 (J)	<0.1	<0.1
3/24/2020	<0.1	<0.1	<0.1	<0.1	0.081 (J)		<0.1

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/25/2020						<0.1	
9/23/2020	<0.1	<0.1	<0.1				
9/24/2020				<0.1	0.079 (J)	<0.1	<0.1
2/9/2021		<0.1	<0.1	<0.1	0.092 (J)		
2/10/2021						<0.1	<0.1
3/3/2021	<0.1	<0.1	<0.1	<0.1			
3/4/2021					0.091 (J)	<0.1	<0.1
8/26/2021			<0.1			0.063 (J)	
8/27/2021	<0.1	<0.1		<0.1			
9/1/2021					0.11		
9/3/2021							<0.1
2/8/2022						0.052 (J)	<0.1
2/9/2022	<0.1	<0.1	<0.1	<0.1	0.1		
8/30/2022	<0.1	<0.1	<0.1		0.1		
8/31/2022				<0.1		0.065 (J)	0.05 (J)
2/7/2023	<0.1	<0.1	<0.1	<0.1	0.1	0.076 (J)	
2/8/2023							<0.1

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/2/2016	<0.1	0.11 (J)	<0.1		
6/9/2016					0.085 (J)
7/26/2016	<0.1	0.05 (J)	<0.1		
8/2/2016					0.09 (J)
8/31/2016				0.14 (J)	
9/14/2016	<0.1	0.04 (J)	<0.1		
9/21/2016					0.09 (J)
11/2/2016	<0.1	<0.1			
11/4/2016			<0.1		
11/7/2016					<0.3 (*)
11/28/2016				0.12 (J)	
1/12/2017		0.04 (J)	<0.1		
1/13/2017	<0.1				
1/19/2017					<0.3 (*)
2/22/2017				0.09 (J)	<0.3 (*)
3/6/2017	<0.1				
3/7/2017		<0.1	<0.1		
5/1/2017	<0.1	<0.1			
5/2/2017			<0.1		
5/8/2017				0.05 (J)	0.06 (J)
6/27/2017		<0.1	<0.1		
6/29/2017	<0.1				
7/5/2017					0.08 (J)
7/17/2017				0.14 (J)	
10/3/2017		<0.1	<0.1		
10/5/2017	<0.1				<0.3 (*)
10/16/2017				0.12 (J)	
2/19/2018				0.17	
3/29/2018	<0.1	<0.1	<0.1		<0.3
6/6/2018		0.15 (J)			
6/7/2018	<0.1		<0.1		
6/11/2018					<0.3
8/6/2018				0.087 (J)	
9/26/2018	<0.1	<0.1	<0.1		
10/2/2018					<0.3
2/25/2019				0.14 (J)	
2/27/2019					0.15 (J)
3/4/2019	<0.1	0.19 (J)	<0.1		
4/1/2019					0.059 (J)
4/3/2019	<0.1	0.047 (J)	<0.1		
6/12/2019				0.12 (J)	
8/19/2019				<0.3	
9/24/2019		0.05 (J)	<0.1		
9/25/2019	<0.1				0.054 (J)
10/8/2019				0.052 (J)	
2/12/2020	<0.1	<0.1	<0.1		
2/13/2020					0.053 (J)
3/17/2020				0.053 (J)	
3/20/2020					0.057 (J)
3/24/2020		<0.1	<0.1		
3/25/2020	<0.1				
8/26/2020				0.068 (J)	

# Time Series

Constituent: Fluoride (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
9/22/2020	<0.1	0.056 (J)	<0.1	0.058 (J)	
9/24/2020					0.06 (J)
2/8/2021		0.055 (J)	<0.1		
2/9/2021	<0.1				
2/12/2021					0.17
3/2/2021		<0.1	<0.1	0.073 (J)	
3/3/2021	<0.1				0.056 (J)
8/20/2021				0.06 (J)	0.069 (J)
8/26/2021	<0.1	0.061 (J)	<0.1		
2/8/2022				0.064 (J)	0.053 (J)
2/10/2022		0.055 (J)	<0.1		
2/11/2022	<0.1				
8/30/2022		0.085 (J)	<0.1	0.086 (J)	
8/31/2022	0.061 (J)				
9/1/2022					0.091 (J)
2/7/2023		0.082 (J)		0.095 (J)	
2/8/2023					0.092 (J)
2/9/2023	0.067 (J)		<0.1		

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.00056 (J)	<0.001				<0.001
6/2/2016	<0.001				<0.001	0.00056 (J)	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					0.0002 (J)	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		0.0001 (J)	<0.001			0.0002 (J)	
3/3/2017				<0.001			
3/8/2017	0.0001 (J)						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		4.9E-05 (J)	<0.001				
2/11/2020				<0.001			<0.001
2/12/2020	<0.001				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		0.00012 (J)		<0.001	<0.001	0.00017 (J)	<0.001
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)		<0.001	0.00015 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	4.8E-05 (J)			0.00015 (J)		<0.001	<0.001
2/11/2021					4.6E-05 (J)		
2/12/2021		4.4E-05 (J)	0.00038 (J)				
3/1/2021					<0.001		
3/2/2021	<0.001						
3/3/2021		5.6E-05 (J)	<0.001	<0.001		<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001		<0.001	<0.001	
8/27/2021				<0.001			<0.001
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		
8/30/2022		<0.001		<0.001			

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/31/2022	<0.001		<0.001		<0.001	<0.001	<0.001
2/7/2023		<0.001	<0.001	<0.001			
2/8/2023	<0.001				<0.001	<0.001	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.001	<0.001	<0.001	<0.001 (*)			
6/9/2016					<0.001	<0.001	
8/1/2016	<0.001	<0.001	<0.001	<0.001			
8/2/2016					<0.001	<0.001	
8/30/2016							<0.001
9/20/2016	<0.001	<0.001	<0.001	0.0002 (J)			
9/21/2016					<0.001	<0.001	
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	
11/8/2016					<0.001		
11/14/2016							<0.001
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		
2/23/2017			<0.001				
2/24/2017							<0.001
5/3/2017		<0.001 (*)					
5/5/2017					<0.001	<0.001 (*)	
5/8/2017	<0.001		<0.001	<0.001			<0.001
6/30/2017			<0.001	<0.001			
7/5/2017					<0.001		
7/7/2017						7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)					
7/11/2017							<0.001
10/10/2017							<0.001
3/29/2018			<0.001	<0.001			
3/30/2018	<0.001	<0.001			<0.001	<0.001	
4/2/2018							<0.001
9/19/2018							<0.001
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/20/2019							<0.001
2/13/2020	<0.001	<0.001	<0.001	6.2E-05 (J)	<0.001	5.4E-05 (J)	
3/19/2020		0.0001 (J)			<0.001	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.001	8.5E-05 (J)			
8/27/2020							<0.001
9/22/2020							<0.001
9/24/2020	<0.001	6.4E-05 (J)	<0.001	0.00037 (J)	<0.001	6.3E-05 (J)	
2/10/2021	5.1E-05 (J)	5E-05 (J)	<0.001	0.00072 (J)			
2/11/2021					<0.001		
2/12/2021						5.2E-05 (J)	
3/1/2021							<0.001
3/2/2021		5.6E-05 (J)					
3/3/2021	<0.001		<0.001	<0.001	<0.001	<0.001	
8/19/2021		<0.001					<0.001
8/20/2021	<0.001		<0.001	0.00096 (J)	<0.001	<0.001	
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					<0.001
9/1/2022			<0.001	<0.001	<0.001	<0.001	
2/8/2023							<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
10/11/2017						0.0001 (J)	
10/12/2017							9E-05 (J)
11/20/2017						<0.001	<0.001
1/10/2018							<0.001
1/11/2018						0.0002 (J)	
2/19/2018							<0.001
2/20/2018						<0.001	
3/28/2018	<0.001	<0.001	<0.001				
3/29/2018				<0.001	<0.001		
4/3/2018						<0.001	<0.001
6/28/2018						<0.001	<0.001
8/7/2018						<0.001	<0.001
9/24/2018						<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			
8/21/2019						<0.001	<0.001
9/24/2019					<0.001		
9/25/2019	<0.001			<0.001			
9/26/2019		<0.001	<0.001				
10/9/2019						<0.001	<0.001
2/11/2020	<0.001	<0.001	<0.001				
2/12/2020				<0.001	<0.001	<0.001	<0.001
3/24/2020	6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001		<0.001
3/25/2020						5.1E-05 (J)	
9/23/2020	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)				
9/24/2020				9.2E-05 (J)	4.6E-05 (J)	<0.001	3.8E-05 (J)
2/9/2021		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001		
2/10/2021						<0.001	<0.001
3/3/2021	<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)			
3/4/2021					<0.001	<0.001	<0.001
8/26/2021			<0.001			<0.001	
8/27/2021	<0.001	<0.001		<0.001			
9/1/2021					<0.001		



# Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/3/2021							<0.001
2/8/2022						<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/30/2022	<0.001	<0.001	<0.001		<0.001		
8/31/2022				<0.001		<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/8/2023							<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	<0.001	<0.001	<0.001		
6/9/2016					<0.001
7/26/2016	<0.001	<0.001	<0.001		
8/2/2016					<0.001
8/31/2016				<0.001	
9/14/2016	<0.001	<0.001	<0.001		
9/21/2016					<0.001
11/2/2016	<0.001	<0.001			
11/4/2016			<0.001		
11/7/2016					<0.001
11/28/2016				<0.001	
1/12/2017		<0.001	<0.001		
1/13/2017	<0.001				
1/19/2017					<0.001
2/22/2017				<0.001	<0.001
3/6/2017	<0.001				
3/7/2017		0.0001 (J)	7E-05 (J)		
5/1/2017	<0.001	<0.001			
5/2/2017			<0.001		
5/8/2017				<0.001	<0.001
6/27/2017		<0.001	<0.001		
6/29/2017	<0.001				
7/5/2017					<0.001
7/17/2017				<0.001	
10/16/2017				<0.001	
2/19/2018				<0.001	
3/29/2018	<0.001	<0.001	<0.001		<0.001
8/6/2018				<0.001	
2/25/2019				<0.001	
2/27/2019					<0.001
3/4/2019	<0.001	<0.001	<0.001		
4/3/2019	<0.001	<0.001	<0.001		
6/12/2019				<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
8/19/2019				<0.001	
9/24/2019		<0.001	9E-05 (J)		
9/25/2019	<0.001				
10/8/2019				<0.001	
2/12/2020	<0.001	<0.001	<0.001		
2/13/2020					<0.001
3/17/2020				<0.001	
3/20/2020					<0.001
3/24/2020		5.4E-05 (J)	6.8E-05 (J)		
3/25/2020	<0.001				
8/26/2020				<0.001	
9/22/2020	<0.001	4.5E-05 (J)	4.2E-05 (J)	0.0001 (J)	
9/24/2020					9.5E-05 (J)
2/8/2021		0.00013 (J)	3.7E-05 (J)		
2/9/2021	<0.001				
2/12/2021					6.6E-05 (J)
3/2/2021		5.1E-05 (J)	9.2E-05 (J)	<0.001	
3/3/2021	<0.001				0.00016 (J)
8/20/2021				<0.001	<0.001
8/26/2021	<0.001	<0.001	<0.001		
2/8/2022				<0.001	<0.001
2/10/2022		<0.001	<0.001		
2/11/2022	<0.001				
8/30/2022		<0.001	<0.001	<0.001	
8/31/2022	<0.001				
9/1/2022					<0.001
2/7/2023		<0.001		<0.001	
2/8/2023					<0.001
2/9/2023	<0.001		<0.001		

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.015	<0.15				0.01
6/2/2016	<0.03				<0.05	0.018	
7/25/2016			0.002 (J)		<0.05		0.0132 (J)
7/26/2016	<0.03	0.0135 (J)				0.0221 (J)	
9/13/2016		0.0112 (J)	<0.15				
9/14/2016				0.004 (J)			0.012 (J)
9/15/2016	<0.03					0.0197 (J)	
9/19/2016					<0.05		
11/1/2016		0.0163 (J)			<0.05	0.0194 (J)	0.0115 (J)
11/2/2016	<0.03						
11/4/2016			<0.15	<0.25			
12/15/2016				0.0026 (J)			
1/10/2017	<0.03						
1/11/2017		0.0166 (J)				0.0177 (J)	0.0085 (J)
1/16/2017			0.0023 (J)	0.0023 (J)	<0.05		
2/21/2017					<0.05		
3/1/2017							0.0114 (J)
3/2/2017		0.0159 (J)	0.0025 (J)			0.0185 (J)	
3/3/2017				0.0013 (J)			
3/8/2017	<0.03						
4/26/2017	<0.03				<0.05	0.0183 (J)	0.0092 (J)
4/27/2017		0.0137 (J)	0.0027 (J)				
4/28/2017				0.0031 (J)			
5/26/2017				0.0038 (J)			
6/27/2017		0.0094 (J)	0.0024 (J)				
6/28/2017				0.0026 (J)		0.0173 (J)	0.0085 (J)
6/30/2017	<0.03				<0.05		
3/27/2018	<0.03		0.0023 (J)		0.0011 (J)		
3/28/2018				0.0025 (J)		0.02 (J)	0.013 (J)
3/29/2018		0.0078 (J)					
6/5/2018		0.0079 (J)					
6/6/2018			0.0024 (J)				
6/7/2018				0.0017 (J)		0.02 (J)	
6/8/2018	<0.03						0.012 (J)
6/11/2018					0.0012 (J)		
10/1/2018	<0.03	0.0053 (J)	0.0023 (J)	<0.25		0.02 (J)	0.011 (J)
10/2/2018					<0.05		
2/26/2019	<0.03				0.0011 (J)		
2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)	0.014 (J)
3/28/2019		0.013 (J)	0.0022 (J)				
3/29/2019	<0.03			0.0016 (J)			
4/1/2019					0.001 (J)	0.021 (J)	0.013 (J)
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)			
9/25/2019	<0.03				0.0011 (J)	0.02 (J)	0.01 (J)
2/10/2020		0.011 (J)	0.0023 (J)				
2/11/2020				0.0012 (J)			0.013 (J)
2/12/2020	<0.03				0.0013 (J)	0.019 (J)	
3/18/2020	<0.03		0.0024 (J)				
3/19/2020		0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)	0.014 (J)
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)	0.013 (J)
9/24/2020					0.0011 (J)		
9/25/2020	<0.03						

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.03			0.0039 (J)		0.023 (J)	0.015 (J)
2/11/2021					0.0012 (J)		
2/12/2021		0.01 (J)	0.0025 (J)				
3/1/2021					0.0011 (J)		
3/2/2021	<0.03						
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)	0.017 (J)
8/19/2021	<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)	
8/27/2021				0.0058 (J)			0.026 (J)
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)	0.021 (J)
2/10/2022	<0.03						
2/11/2022					0.0014 (J)		
8/30/2022		0.013 (J)		0.0044 (J)			
8/31/2022	<0.03		<0.15		0.0012 (J)	0.021 (J)	0.022 (J)
2/7/2023		0.006 (J)	0.0029 (J)	0.0047 (J)			
2/8/2023	<0.03				0.0011 (J)	0.023 (J)	0.018 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	
8/30/2016							0.0061 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	
11/8/2016					0.0072 (J)		
11/14/2016							0.0064 (J)
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		
2/23/2017			0.0099 (J)				
2/24/2017							0.0049 (J)
5/3/2017		<0.03					
5/5/2017					0.007 (J)	<0.03	
5/8/2017	0.007 (J)		0.0086 (J)	<0.03			0.0053 (J)
6/30/2017			0.0108 (J)	<0.03			
7/5/2017					0.0072 (J)		
7/7/2017						<0.03	
7/10/2017	0.0064 (J)	<0.03					
7/11/2017							0.0051 (J)
10/10/2017							0.0043 (J)
3/29/2018			0.011 (J)	<0.03			
3/30/2018	0.0068 (J)	<0.03			0.007 (J)	<0.03	
4/2/2018							0.0045 (J)
6/12/2018				<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	<0.03	0.014 (J)				
9/19/2018							0.0043 (J)
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			
10/3/2018					0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	<0.03	0.0096 (J)	<0.03	0.0063 (J)	<0.03	
4/1/2019			0.0082 (J)	<0.03	0.0065 (J)		
4/2/2019	0.0064 (J)	<0.03				<0.03	
8/20/2019							0.0036 (J)
9/25/2019	0.0073 (J)	<0.03					
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
10/8/2019							0.0036 (J)
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	
3/17/2020							0.0046 (J)
3/19/2020		<0.03			0.007 (J)	<0.03	
3/20/2020	0.0072 (J)		0.0091 (J)	<0.03			
8/27/2020							0.0039 (J)
9/22/2020							0.0036 (J)
9/24/2020	0.0074 (J)	<0.03	0.0075 (J)	<0.03	0.0065 (J)	<0.03	
2/10/2021	0.0067 (J)	<0.03	0.0067 (J)	0.00081 (J)			
2/11/2021					0.007 (J)		
2/12/2021						0.0053 (J)	
3/1/2021							0.0037 (J)
3/2/2021		<0.03					

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	0.0077 (J)		0.0066 (J)	<0.03	0.0063 (J)	<0.03	
8/19/2021		<0.03					0.0038 (J)
8/20/2021	0.0079 (J)		0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	
2/8/2022				<0.03	0.0076 (J)	<0.03	0.0039 (J)
2/10/2022	0.0086 (J)	<0.03	0.0072 (J)				
8/31/2022	0.0074 (J)	<0.03					0.0037 (J)
9/1/2022			0.0069 (J)	<0.03	0.0066 (J)	<0.03	
2/8/2023							0.0037 (J)
2/9/2023	0.0075 (J)	<0.03	0.0069 (J)	<0.03	0.0066 (J)	<0.03	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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	<0.05	0.0021 (J)		<0.05		
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)		
10/11/2017						0.0018 (J)	
10/12/2017							<0.03
11/20/2017						0.0018 (J)	<0.03
1/10/2018							<0.03
1/11/2018						0.0019 (J)	
2/19/2018							<0.03
2/20/2018						<0.05	
3/28/2018	<0.03	0.0041 (J)	0.0024 (J)				
3/29/2018				<0.03	0.0062 (J)		
4/3/2018						0.0022 (J)	<0.03
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)				
6/28/2018						0.0026 (J)	<0.03
8/7/2018						0.0024 (J)	<0.03
9/24/2018						0.0022 (J)	<0.03
9/25/2018	<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (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			
8/21/2019						0.0035 (J)	<0.03
9/24/2019					0.0068 (J)		
9/25/2019	<0.03			<0.03			
9/26/2019		0.0032 (J)	0.0029 (J)				
10/9/2019						0.0036 (J)	<0.03
2/11/2020	<0.03	0.0033 (J)	0.005 (J)				
2/12/2020				<0.03	0.0065 (J)	0.0041 (J)	<0.03
3/24/2020	0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)		<0.03
3/25/2020						0.0049 (J)	
9/23/2020	<0.03	0.003 (J)	0.0022 (J)				
9/24/2020				<0.03	0.0069 (J)	0.0054 (J)	<0.03
2/9/2021		0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)		
2/10/2021						0.0071 (J)	<0.03



# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.03	0.0034 (J)	0.0021 (J)	<0.03			
3/4/2021					0.0062 (J)	0.0084 (J)	<0.03
8/26/2021			0.0019 (J)			0.0082 (J)	
8/27/2021	<0.03	0.0032 (J)		<0.03			
9/1/2021					0.0057 (J)		
9/3/2021							<0.03
2/8/2022						0.008 (J)	0.00076 (J)
2/9/2022	<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)	0.0061 (J)		
8/30/2022	<0.03	0.0036 (J)	0.0014 (J)		0.0079 (J)		
8/31/2022				<0.03		0.0065 (J)	<0.03
2/7/2023	<0.03	0.003 (J)	0.0012 (J)	<0.03	0.0059 (J)	0.0065 (J)	
2/8/2023							0.00074 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/2/2016	0.013	0.0049 (J)	<0.05		
6/9/2016					0.0075
7/26/2016	0.0123 (J)	0.0063 (J)	0.0027 (J)		
8/2/2016					0.0078 (J)
8/31/2016				<0.25	
9/14/2016	0.0137 (J)	0.0058 (J)	0.0029 (J)		
9/21/2016					0.0074 (J)
11/2/2016	0.0136 (J)	0.0053 (J)			
11/4/2016			<0.05		
11/7/2016					0.0057 (J)
11/28/2016				<0.25	
1/12/2017		0.0054 (J)	0.0032 (J)		
1/13/2017	0.0121 (J)				
1/19/2017					0.0055 (J)
2/22/2017				<0.25	0.0063 (J)
3/6/2017	0.0143 (J)				
3/7/2017		0.0056 (J)	0.0035 (J)		
5/1/2017	0.0132 (J)	0.0031 (J)			
5/2/2017			0.0031 (J)		
5/8/2017				0.0014 (J)	0.0066 (J)
6/27/2017		0.0018 (J)	0.0029 (J)		
6/29/2017	0.0145 (J)				
7/5/2017					0.0058 (J)
7/17/2017				<0.25	
10/16/2017				0.0016 (J)	
2/19/2018				<0.25	
3/29/2018	0.014 (J)	0.0058 (J)	0.0034 (J)		0.0049 (J)
6/6/2018		0.0068 (J)			
6/7/2018	0.013 (J)		0.0032 (J)		
6/11/2018					0.0064 (J)
8/6/2018				<0.25	
9/26/2018	0.014 (J)	0.0065 (J)	0.0032 (J)		
10/2/2018					0.006 (J)
2/27/2019					0.0053 (J)
3/4/2019	0.015 (J)	0.0065 (J)	0.0032 (J)		
4/1/2019					0.0052 (J)
4/3/2019	0.014 (J)	0.007 (J)	0.0035 (J)		
8/19/2019				0.0019 (J)	
9/24/2019		0.0065 (J)	0.0031 (J)		
9/25/2019	0.014 (J)				0.0057 (J)
10/8/2019				0.0015 (J)	
2/12/2020	0.011 (J)	0.0066 (J)	0.0032 (J)		
2/13/2020					0.0057 (J)
3/17/2020				0.0017 (J)	
3/20/2020					0.0051 (J)
3/24/2020		0.0064 (J)	0.0033 (J)		
3/25/2020	0.014 (J)				
8/26/2020				0.0032 (J)	
9/22/2020	0.013 (J)	0.0066 (J)	0.0034 (J)	0.0029 (J)	
9/24/2020					0.005 (J)
2/8/2021		0.0063 (J)	0.0032 (J)		
2/9/2021	0.011 (J)				

# Time Series

Constituent: Lithium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/12/2021					<0.03
3/2/2021		0.0018 (J)	0.0031 (J)	0.0033 (J)	
3/3/2021	0.012 (J)				0.0054 (J)
8/20/2021				0.0028 (J)	0.0056 (J)
8/26/2021	0.0094 (J)	0.0075 (J)	0.0032 (J)		
2/8/2022				0.0031 (J)	0.0064 (J)
2/10/2022		0.0076 (J)	0.0036 (J)		
2/11/2022	0.012 (J)				
8/30/2022		0.0068 (J)	0.0035 (J)	0.0025 (J)	
8/31/2022	0.013 (J)				
9/1/2022					0.0051 (J)
2/7/2023		0.0059 (J)		0.0022 (J)	
2/8/2023					0.012 (J)
2/9/2023	0.014 (J)		0.0036 (J)		

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0002	<0.0002				<0.0002
6/2/2016	<0.0002				<0.0002	<0.0002	
7/25/2016			<0.0002		<0.0002		<0.0002
7/26/2016	<0.0002	<0.0002				<0.0002	
9/13/2016		<0.0002	<0.0002				
9/14/2016				<0.0002			<0.0002
9/15/2016	<0.0002					<0.0002	
9/19/2016					<0.0002		
11/1/2016		<0.0002			<0.0002	<0.0002	<0.0002
11/2/2016	<0.0002						
11/4/2016			<0.0002	<0.0002			
12/15/2016				<0.0002			
1/10/2017	<0.0002						
1/11/2017		<0.0002				<0.0002	<0.0002
1/16/2017			<0.0002	<0.0002	<0.0002		
2/21/2017					<0.0002		
3/1/2017							<0.0002
3/2/2017		<0.0002	<0.0002			<0.0002	
3/3/2017				<0.0002			
3/8/2017	<0.0002						
4/26/2017	<0.0002				<0.0002	<0.0002	<0.0002
4/27/2017		<0.0002	<0.0002				
4/28/2017				<0.0002			
5/26/2017				<0.0002			
6/27/2017		<0.0002	<0.0002				
6/28/2017				<0.0002		<0.0002	<0.0002
6/30/2017	<0.0002				<0.0002		
3/27/2018	<0.0002		<0.0002		<0.0002		
3/28/2018				<0.0002		<0.0002	<0.0002
3/29/2018		<0.0002					
2/26/2019	6.1E-05 (J)				6.8E-05 (J)		
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0002				
3/29/2019	<0.0002			<0.0002			
4/1/2019					8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)
9/24/2019		<0.0002	<0.0002	<0.0002			
9/25/2019	<0.0002				<0.0002	<0.0002	<0.0002
2/10/2020		<0.0002	<0.0002				
2/11/2020				<0.0002			<0.0002
2/12/2020	<0.0002				<0.0002	<0.0002	
2/10/2021	<0.0002			<0.0002		<0.0002	<0.0002
2/11/2021					<0.0002		
2/12/2021		<0.0002	<0.0002				
2/9/2022		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/10/2022	<0.0002						
2/11/2022					<0.0002		
8/30/2022		<0.0002		<0.0002			
8/31/2022	<0.0002		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/7/2023		<0.0002	<0.0002	<0.0002			
2/8/2023	<0.0002				<0.0002	<0.0002	<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	
8/30/2016							<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
11/8/2016					<0.0002		
11/14/2016							<0.0002
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		
2/23/2017			<0.0002				
2/24/2017							<0.0002
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
7/11/2017							<0.0002
10/10/2017							<0.0002
3/29/2018			<0.0002	<0.0002			
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
4/2/2018							<0.0002
9/19/2018							5.3E-05 (J)
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
8/20/2019							<0.0002
9/25/2019	<0.0002	<0.0002					
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/27/2020							<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	
8/19/2021							<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					<0.0002
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	
2/8/2023							<0.0002
2/9/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
10/11/2017						<0.0002	
10/12/2017							<0.0002
11/20/2017						7E-05 (J)	8E-05 (J)
1/10/2018							<0.0002
1/11/2018						<0.0002	
2/19/2018							<0.0002
2/20/2018						<0.0002	
3/28/2018	<0.0002	<0.0002	<0.0002				
3/29/2018				<0.0002	<0.0002		
4/3/2018						<0.0002	<0.0002
6/28/2018						<0.0002	3.6E-05 (J)
8/7/2018						<0.0002	<0.0002
9/24/2018						<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					
8/21/2019						<0.0002	<0.0002
2/11/2020	<0.0002	<0.0002	<0.0002				
2/12/2020				<0.0002	<0.0002	<0.0002	<0.0002
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002		
2/10/2021						<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002	<0.0002	<0.0002			
3/4/2021					<0.0002	<0.0002	<0.0002
8/26/2021			<0.0002			<0.0002	
8/27/2021	<0.0002	<0.0002		<0.0002			
9/1/2021					<0.0002		
9/3/2021							0.00012 (J)
2/8/2022						<0.0002	0.00013 (J)
2/9/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
8/30/2022	<0.0002	<0.0002	<0.0002		<0.0002		
8/31/2022				<0.0002		<0.0002	0.00064
2/7/2023	0.00018 (J)	0.00013 (J)	0.00017 (J)	0.00015 (J)	0.00017 (J)	<0.0002	
2/8/2023							<0.0002

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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)	
6/2/2016	<0.0002	<0.0002	<0.0002		
6/9/2016					<0.0002 (*)
7/26/2016	<0.0002	<0.0002	<0.0002		
8/2/2016					<0.0002
8/31/2016				<0.0002	
9/14/2016	<0.0002	<0.0002	<0.0002		
9/21/2016					<0.0002
11/2/2016	<0.0002	<0.0002			
11/4/2016			<0.0002		
11/7/2016					<0.0002
11/28/2016				<0.0002	
1/12/2017		<0.0002	<0.0002		
1/13/2017	<0.0002				
1/19/2017					<0.0002
2/22/2017				<0.0002	<0.0002
3/6/2017	<0.0002				
3/7/2017		<0.0002	<0.0002		
5/1/2017	<0.0002	<0.0002			
5/2/2017			<0.0002		
5/8/2017				<0.0002	<0.0002
6/27/2017		<0.0002	<0.0002		
6/29/2017	<0.0002				
7/5/2017					<0.0002
7/17/2017				<0.0002	
10/16/2017				<0.0002	
2/19/2018				<0.0002	
3/29/2018	<0.0002	<0.0002	<0.0002		<0.0002
8/6/2018				<0.0002	
9/26/2018	<0.0002	<0.0002	<0.0002		
2/25/2019				7.4E-05 (J)	
2/27/2019					4.7E-05 (J)
3/4/2019	<0.0002	<0.0002	<0.0002		
4/1/2019					3.9E-05 (J)

# Time Series

Constituent: Mercury (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/12/2019				<0.0002	
8/19/2019				<0.0002	
9/25/2019					<0.0002
10/8/2019				<0.0002	
2/12/2020	<0.0002	<0.0002	<0.0002		
2/13/2020					<0.0002
5/6/2020				<0.0002	
8/26/2020				<0.0002	
9/22/2020				<0.0002	
2/8/2021		<0.0002	<0.0002		
2/9/2021	<0.0002				
2/12/2021					<0.0002
3/2/2021		<0.0002	<0.0002	<0.0002	
3/3/2021	<0.0002				
8/20/2021				<0.0002	
8/26/2021	<0.0002	<0.0002	<0.0002		
2/8/2022				<0.0002	<0.0002
2/10/2022		<0.0002	<0.0002		
2/11/2022	<0.0002				
8/30/2022		<0.0002	<0.0002	<0.0002	
8/31/2022	<0.0002				
9/1/2022					<0.0002
2/7/2023		<0.0002		0.00013 (J)	
2/8/2023					<0.0002
2/9/2023	<0.0002		<0.0002		



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.014 (J)	0.012 (J)				0.0055 (J)
6/2/2016	<0.01				<0.01	0.0093 (J)	
7/25/2016			0.0098 (J)		<0.01		0.0037 (J)
7/26/2016	<0.01	0.0132				0.0113	
9/13/2016		0.0127	0.01 (J)				
9/14/2016				0.0039 (J)			0.0034 (J)
9/15/2016	<0.01					0.0112	
9/19/2016					<0.01		
11/1/2016		0.0092 (J)			<0.01	0.0099 (J)	0.0025 (J)
11/2/2016	<0.01						
11/4/2016			0.01	0.0077 (J)			
12/15/2016				0.0066 (J)			
1/10/2017	<0.01						
1/11/2017		0.0093 (J)				0.0093 (J)	0.0033 (J)
1/16/2017			0.0086 (J)	0.0056 (J)	<0.01		
2/21/2017					<0.01		
3/1/2017							0.0044 (J)
3/2/2017		0.0099 (J)	0.01			0.0103	
3/3/2017				0.0049 (J)			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	0.01	0.0075 (J)
4/27/2017		0.0103	0.0101				
4/28/2017				0.004 (J)			
5/26/2017				0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)				
6/28/2017				0.0036 (J)		0.0102	0.008 (J)
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		0.0074 (J)		<0.01		
3/28/2018				0.0038 (J)		0.011	0.0025 (J)
3/29/2018		0.0076 (J)					
6/5/2018		0.0092 (J)					
6/6/2018			0.0073 (J)				
6/7/2018				0.004 (J)		0.011	
6/8/2018	<0.01						0.0041 (J)
6/11/2018					<0.01		
10/1/2018	<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012	0.0037 (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)		0.011	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)				
3/29/2019	<0.01			0.0041 (J)			
4/1/2019					<0.01	0.012	0.0021 (J)
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)			
9/25/2019	<0.01				<0.01	0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)				
2/11/2020				0.0057 (J)			0.003 (J)
2/12/2020	<0.01				<0.01	0.013	
3/18/2020	<0.01		0.0056 (J)				
3/19/2020		0.0088 (J)		0.0046 (J)	<0.01	0.013	0.0043 (J)
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)		0.012	0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.01			0.0041 (J)		0.014	0.0038 (J)
2/11/2021					<0.01		
2/12/2021		0.008 (J)	0.0056 (J)				
3/1/2021					<0.01		
3/2/2021	<0.01						
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013	0.0036 (J)
8/19/2021	<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013	
8/27/2021				0.0048 (J)			0.0099 (J)
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013	0.0087 (J)
2/10/2022	<0.01						
2/11/2022					<0.01		
8/30/2022		0.0094 (J)		0.0068 (J)			
8/31/2022	<0.01		0.0055 (J)		<0.01	0.011	0.0068 (J)
2/7/2023		<0.01	<0.01	0.0061 (J)			
2/8/2023	<0.01				<0.01	0.012	0.0065 (J)

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	
8/30/2016							<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	
11/8/2016					<0.01		
11/14/2016							<0.01
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		
2/23/2017			<0.01				
2/24/2017							<0.01
5/3/2017		<0.01					
5/5/2017					0.0014 (J)	0.0007 (J)	
5/8/2017	<0.01		0.0011 (J)	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					0.0014 (J)		
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
7/11/2017							<0.01
10/10/2017							<0.01
3/29/2018			<0.01	<0.01			
3/30/2018	<0.01	<0.01			<0.01	<0.01	
4/2/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
9/19/2018							<0.01
10/2/2018	<0.01	<0.01	<0.01	<0.01			
10/3/2018					<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
4/1/2019			<0.01	<0.01	<0.01		
4/2/2019	<0.01	<0.01				<0.01	
8/20/2019							<0.01
9/25/2019	<0.01	<0.01					
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
10/8/2019							<0.01
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	
3/17/2020							<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			
8/27/2020							<0.01
9/22/2020							<0.01
9/24/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	
2/10/2021	<0.01	<0.01	0.0016 (J)	<0.01			
2/11/2021					0.0012 (J)		
2/12/2021						<0.01	
3/1/2021							<0.01
3/2/2021		<0.01					

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	<0.01		0.0017 (J)	<0.01	0.0011 (J)	0.00083 (J)	
8/19/2021		<0.01					<0.01
8/20/2021	<0.01		0.0042 (J)	<0.01	0.001 (J)	<0.01	
2/8/2022				<0.01	0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	<0.01	<0.01	0.0018 (J)				
8/31/2022	<0.01	<0.01					<0.01
9/1/2022			0.0016 (J)	<0.01	0.001 (J)	<0.01	
2/8/2023							<0.01
2/9/2023	<0.01	<0.01	0.0019 (J)	<0.01	0.0014 (J)	0.00083 (J)	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
1/11/2017	<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		
10/11/2017						0.0094 (J)	
10/12/2017							<0.01
11/20/2017						0.0081 (J)	<0.01
1/10/2018							<0.01
1/11/2018						0.0074 (J)	
2/19/2018							<0.01
2/20/2018						<0.01	
3/28/2018	<0.01	<0.01	<0.01				
3/29/2018				<0.01	<0.01		
4/3/2018						0.006 (J)	<0.01
6/28/2018						0.005 (J)	<0.01
8/7/2018						0.0045 (J)	<0.01
9/24/2018						0.0035 (J)	<0.01
3/5/2019	<0.01		<0.01	<0.01	<0.01		
3/6/2019		<0.01					
8/21/2019						0.0021 (J)	<0.01
10/9/2019						0.0018 (J)	<0.01
2/11/2020	<0.01	<0.01	<0.01				
2/12/2020				<0.01	<0.01	0.0025 (J)	<0.01
3/24/2020	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01
3/25/2020						0.002 (J)	
9/23/2020	<0.01	<0.01	<0.01				
9/24/2020				<0.01	<0.01	0.0016 (J)	<0.01
2/9/2021		<0.01	<0.01	<0.01	<0.01		
2/10/2021						0.0013 (J)	<0.01
3/3/2021	<0.01	<0.01	<0.01	<0.01			
3/4/2021					<0.01	0.0014 (J)	<0.01
8/26/2021			<0.01			0.0027 (J)	
8/27/2021	<0.01	<0.01		<0.01			
9/1/2021					<0.01		
9/3/2021							<0.01
2/8/2022						0.0035 (J)	<0.01
2/9/2022	<0.01	<0.01	<0.01	<0.01	<0.01		
8/30/2022	<0.01	<0.01	<0.01		<0.01		
8/31/2022				<0.01		0.0036 (J)	<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/7/2023	<0.01	<0.01	<0.01	<0.01	<0.01	0.0045 (J)	
2/8/2023							<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/2/2016	<0.01	0.0035 (J)	<0.01		
6/9/2016					<0.01
7/26/2016	<0.01	0.0042 (J)	<0.01		
8/2/2016					<0.01
8/31/2016				<0.01	
9/14/2016	<0.01	0.0041 (J)	<0.01		
9/21/2016					<0.01
11/2/2016	<0.01	0.0039 (J)			
11/4/2016			<0.01		
11/7/2016					<0.01
11/28/2016				<0.01	
1/12/2017		0.0041 (J)	<0.01		
1/13/2017	<0.01				
1/19/2017					<0.01
2/22/2017				<0.01	<0.01
3/6/2017	<0.01				
3/7/2017		0.0047 (J)	<0.01		
5/1/2017	<0.01	0.0045 (J)			
5/2/2017			<0.01		
5/8/2017				<0.01	<0.01
6/27/2017		0.004 (J)	<0.01		
6/29/2017	<0.01				
7/5/2017					<0.01
7/17/2017				<0.01	
10/16/2017				<0.01	
2/19/2018				<0.01	
3/29/2018	<0.01	<0.01	<0.01		<0.01
6/11/2018					<0.01
8/6/2018				<0.01	
10/2/2018					<0.01
2/27/2019					<0.01
3/4/2019	<0.01	<0.01	<0.01		
4/1/2019					<0.01
8/19/2019				<0.01	
9/25/2019					<0.01
2/12/2020	<0.01	0.0011 (J)	<0.01		
2/13/2020					<0.01
3/20/2020					<0.01
3/24/2020		0.0011 (J)	<0.01		
3/25/2020	<0.01				
8/26/2020				<0.01	
9/22/2020	<0.01	0.00099 (J)	<0.01		
9/24/2020					<0.01
2/8/2021		0.0011 (J)	<0.01		
2/9/2021	<0.01				
2/12/2021					0.00083 (J)
3/2/2021		<0.01	<0.01		
3/3/2021	<0.01				<0.01
8/20/2021				<0.01	<0.01
8/26/2021	<0.01	0.001 (J)	<0.01		
2/8/2022				<0.01	<0.01
2/10/2022		0.00096 (J)	<0.01		

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/11/2022	<0.01				
8/30/2022		0.00089 (J)	<0.01	<0.01	
8/31/2022	<0.01				
9/1/2022					<0.01
2/7/2023		0.00095 (J)		<0.01	
2/8/2023					0.00099 (J)
2/9/2023	<0.01		<0.01		



# Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		7.46	6.33				7.72
6/2/2016	5.46				5.75	7.84	
7/25/2016			6.21		5.82		7.74
7/26/2016	5.45	7.43				7.88	
9/13/2016		7.44	6.16	7.41			
9/14/2016							7.65
9/15/2016	5.45					7.74	
9/19/2016					5.78 (D)		
11/1/2016		7.24			5.62	7.75	7.7
11/2/2016	5.41						
11/4/2016			6.29	7.12			
12/15/2016				7.24			
1/10/2017	5.37						
1/11/2017		7.3				7.66	7.53
1/16/2017			6.29	7.24	5.72		
2/21/2017					5.67		
3/1/2017							7.42
3/2/2017		7.23	6.28			7.68	
3/3/2017				7.22			
3/8/2017	5.41						
4/26/2017	5.02				5.56	7.45	7.4
4/27/2017		6.99	6.09				
4/28/2017				7.21			
5/26/2017				7.13			
6/27/2017		6.87	6.21				
6/28/2017				7.06		7.65	7.5
6/30/2017	5.39				5.72		
10/3/2017		6.81	5.98	6.99			
10/4/2017					5.87	7.49	7.45
10/5/2017	5.49						
3/27/2018	5.47		6.25		5.83		
3/28/2018				7.3		7.91	7.74
3/29/2018		7.38					
6/5/2018		7.16					
6/6/2018			6.17				
6/7/2018				7.29		7.69	
6/8/2018	5.45						7.64
6/11/2018					5.69		
10/1/2018	5.39	6.8	5.9	7.07		7.39	7.47
10/2/2018					5.39		
2/26/2019	5.46				5.77		
2/27/2019		6.84	5.8	7.27		7.55	7.54
3/28/2019		6.99	6.15				
3/29/2019	5.34			7.06			
4/1/2019					5.62	7.87	7.74
9/24/2019		7.07	6.23	7.01			
9/25/2019	5.19				5.69	7.64	7.47
2/10/2020		7.2	6.1				
2/11/2020				7.38			7.09
2/12/2020	5.48				5.8	7.83	
3/18/2020	5.38		6.19				
3/19/2020		7.03		7.22	6	7.65	7.31

# Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		7.15	6.01	7.22		7.57	7.37
9/24/2020					5.67		
9/25/2020	5.44						
2/10/2021	5.35			7.29		7.81	7.58
2/11/2021					5.73		
2/12/2021		7.14	6.21				
3/1/2021					5.78		
3/2/2021	5.49						
3/3/2021		7.2	5.38	7.92		8.39	8.23
8/19/2021	7.32	6.32	6.38			5.34	
8/27/2021				7.14			7.39
2/9/2022		7.12	6.24	5.89		7.97	7.66
2/10/2022	4.5						
2/11/2022					5.59		
8/30/2022		7.2		7.04			
8/31/2022	5.15		5.64		5.87	7.65	7.49
2/7/2023		7.86	6.53	6.94			
2/8/2023	5.39				6.43	7.88	7.73

# Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	
8/30/2016							5.75
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	
11/7/2016	5.91	5.35	6.3	6.25		6.36	
11/8/2016					6.37		
11/14/2016							5.59
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		
2/23/2017			6.18				
2/24/2017							5.49
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			5.58
6/30/2017			6.21	6.17			
7/5/2017					6.4		
7/7/2017						6.46	
7/10/2017	5.92	5.25					
7/11/2017							5.58
10/5/2017					6.43		
10/6/2017				6.13			
10/9/2017			6.26			6.37	
10/10/2017	5.84	5.17					5.49
3/29/2018			6.36	6.25			
3/30/2018	6.19	5.19			6.39	6.35	
4/2/2018							6.3 (o)
6/12/2018				6.22	6.42	6.47	
6/13/2018	5.82	5.12	6.28				
9/19/2018							5.48
10/2/2018	5.81	4.95	5.9	5.99			
10/3/2018					6.21	6.01	
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	
3/27/2019							5.83
4/1/2019			6.43	6.4	6.3		
4/2/2019	5.87	5.13				6.7	
8/20/2019							5.58
9/25/2019	5.79	5.24					
9/26/2019			6.3	6.22	6.43	6.47	
10/8/2019							5.59
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	
3/17/2020							5.57
3/19/2020		5.46			7.01	6.98	
3/20/2020	5.94		6.32	6.18			
8/27/2020							4.88
9/22/2020							5.46
9/24/2020	5.86	5.46	6.36	6.27	6.41	6.53	
2/10/2021	5.96	5.18	6.29	6.21			

# Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/11/2021					6.57		
2/12/2021						6.6	
3/1/2021							5.48
3/2/2021		5.38					
3/3/2021	5.93		6.43	6.35	6.51	6.61	
8/19/2021		5.12					5.5
8/20/2021	5.78		6.17	6.18	6.23	6.38	
2/8/2022				6.22	6.34	6.3	5.4
2/10/2022	5.84	5.31	6.23				
8/31/2022	5.77	5.61					5.32
9/1/2022			6.13	6.13	6.41	6.59	
2/8/2023							5.22
2/9/2023	5.76	5.64	6.48	6.64	6.7	6.87	

# Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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					
10/11/2017					6.4		
10/12/2017							5.43
11/20/2017					6.33		5.1
1/10/2018							4.97
1/11/2018					6.29		
2/19/2018							5.6
2/20/2018					7.22		
3/28/2018	5.59	6.1	5.34				
3/29/2018				5.93	6.75		
4/3/2018						6.87	5.84
6/5/2018					6.09		
6/6/2018				5.86			
6/7/2018		5.98					
6/11/2018	5.58		5.28				
6/28/2018						6.18	5.24
8/7/2018						6.08	5.18
9/24/2018						5.81	5.14
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					
3/26/2019							5.3
3/27/2019						5.84	
4/2/2019	5.74				6.94		
4/3/2019		6.29	5.47	5.71			
8/21/2019						5.96	5.26
9/24/2019					6.87		
9/25/2019	5.49			5.86			
9/26/2019		6.04	5.2				
10/9/2019						5.81	5.22
2/11/2020	5.58	6.07	5.3				
2/12/2020				6	7.13	5.97	5.3
3/24/2020	5.57	5.98	5.33	5.86	6.35		5.29

# Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/25/2020						5.78	
9/23/2020	5.58	6.01	5.29				
9/24/2020				5.8	6.7	5.7	5.43
2/9/2021		6.12	5.43	5.86	6.95		
2/10/2021						5.8	5.19
3/3/2021	5.52	5.89	5.31	5.89			
3/4/2021					6.8	5.54	5.23
8/26/2021			4.4			6.91	
8/27/2021	5.27	5.4		5.57			
9/1/2021					6.65		
9/3/2021							4.75
2/8/2022						5.78	5.26
2/9/2022	5.53	5.98	5.28	5.91	6.84		
8/30/2022	4.68	5.82	5.18		6.58		
8/31/2022				5.38		5.3	4.53
2/7/2023	5.47	6	5.03	5.63	6.82	5.49	
2/8/2023							5.71

# Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	6.36	7.67	5.75		
6/9/2016					6.19
7/26/2016	6.22	7.66	5.72		
8/2/2016					6.17
9/14/2016	6.23	7.6	5.74		
9/21/2016					6.2
11/2/2016	6.08	7.35			
11/4/2016			5.61		
11/7/2016					6.1
11/28/2016				6.23	
1/12/2017		7.49	5.71		
1/13/2017	6.19				
1/19/2017					6.22
2/22/2017				6.21	6.12
3/6/2017	6.2				
3/7/2017		7.43	5.66		
5/1/2017	6.21	7.22			
5/2/2017			5.65		
5/8/2017				6.12	6.11
6/27/2017		7.32	5.7		
6/29/2017	6.21				
7/5/2017					6.17
7/17/2017				6.03	
10/3/2017		7.48	5.79		
10/5/2017	6.16				6.17
10/16/2017				6.12	
2/19/2018				6.13	
3/29/2018	6.09	7.02	5.63		6.09
6/6/2018		7.43			
6/7/2018	6.12		5.63		
6/11/2018					6.17
8/6/2018				6.01	
9/26/2018	5.84	7.13	5.63		
10/2/2018					6.17
2/25/2019				6.51	
2/27/2019					6.19
3/4/2019	6.18	7.46	5.75		
4/1/2019					6.03
4/3/2019	6.43	7.11	5.63		

# Time Series

Constituent: pH (S.U.) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/12/2019				6.3	
8/19/2019				6.23	
9/24/2019		6.93	5.6		
9/25/2019	6.2				6.21
10/8/2019				6.28	
2/12/2020	6.15	7.52	5.83		
2/13/2020					6.32
3/17/2020				6.14	
3/20/2020					6.17
3/24/2020		7.34	5.81		
3/25/2020	6.26				
5/6/2020				6.24	
8/26/2020				5.67	
9/22/2020	5.8	7.19	5.99	5.78	
9/24/2020					6.2
2/8/2021			5.67		
2/9/2021	6.06				
2/12/2021					6.24
3/2/2021		7.15	5.63	5.42	
3/3/2021	6.21				6.27
8/20/2021				5.86	6.07
8/26/2021	5.82	7.16	5.51		
2/8/2022				5.83	5.88
2/10/2022		6.99	5.14		
2/11/2022	5.95				
8/30/2022		7.4	5	5.39	
8/31/2022	5.5				
9/1/2022					6.05
2/7/2023		6.64		5.94	
2/8/2023					6.67
2/9/2023	6.23		5.9		



# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	<0.005				<0.005
6/2/2016	0.0011 (J)				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	0.0016 (J)	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	0.0014 (J)					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	0.0012 (J)						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							<0.005
3/2/2017		<0.005	<0.005			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	<0.005				
3/29/2019	0.0019 (J)			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		<0.005	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		<0.005	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		<0.005				
3/19/2020		<0.005		<0.005	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	0.0014 (J)						
2/11/2022					<0.005		
8/30/2022		<0.005		<0.005			
8/31/2022	<0.005		<0.005		<0.005	<0.005	<0.005
2/7/2023		<0.005	<0.005	<0.005			
2/8/2023	<0.005				<0.005	<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.0016	0.0003 (J)	<0.005	<0.005			
6/9/2016					<0.005	<0.005	
8/1/2016	0.0023 (J)	0.0014 (J)	<0.005	<0.005			
8/2/2016					<0.005	<0.005	
8/30/2016							0.0017 (J)
9/20/2016	0.0022 (J)	<0.005	<0.005	<0.005			
9/21/2016					<0.005	0.001 (J)	
11/7/2016	0.0017 (J)	<0.005	<0.005	<0.005		<0.005	
11/8/2016					<0.005		
11/14/2016							<0.005
1/18/2017	0.002 (J)	0.0012 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			
2/21/2017	0.0018 (J)	0.0014 (J)				<0.005	
2/22/2017				<0.005	0.0012 (J)		
2/23/2017			<0.005				
2/24/2017							0.0011 (J)
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.01		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		
7/7/2017						<0.005	
7/10/2017	0.002 (J)	<0.005					
7/11/2017							<0.005
10/10/2017							<0.005
3/29/2018			<0.005	<0.005			
3/30/2018	<0.01	<0.005			<0.005	<0.005	
4/2/2018							<0.005
9/19/2018							<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
4/1/2019			<0.005	<0.005	<0.005		
4/2/2019	0.0017 (J)	<0.005				<0.005	
8/20/2019							<0.005
9/25/2019	0.0019 (J)	<0.005					
9/26/2019			<0.005	<0.005	<0.005	<0.005	
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
3/19/2020		<0.005			<0.005	<0.005	
3/20/2020	0.0019 (J)		<0.005	<0.005			
8/27/2020							<0.005
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
2/10/2021	0.0026 (J)	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/2/2021		<0.005					
3/3/2021	0.0034 (J)		<0.005	<0.005	<0.005	<0.005	
8/19/2021		<0.005					<0.005
8/20/2021	0.0026 (J)		<0.005	<0.005	<0.005	<0.005	
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005	<0.005				
8/31/2022	0.0036 (J)	<0.005					<0.005
9/1/2022			<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/9/2023	0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
10/11/2017						<0.005	
10/12/2017							<0.005
11/20/2017						<0.005	0.0042 (J)
1/10/2018							0.0043 (J)
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	<0.005				
3/29/2018				<0.005	<0.005		
4/3/2018						<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				
6/28/2018						<0.005	0.0032 (J)
8/7/2018						<0.005	0.0031 (J)
9/24/2018						0.0015 (J)	0.0026 (J)
9/25/2018	<0.005	<0.005	<0.005	<0.005	<0.005		
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			
8/21/2019						<0.005	0.0024 (J)
9/24/2019					<0.005		
9/25/2019	<0.005			<0.005			
9/26/2019		<0.005	<0.005				
10/9/2019						<0.005	0.0026 (J)
2/11/2020	<0.005	<0.005	<0.005				
2/12/2020				<0.005	<0.005	<0.005	0.002 (J)
3/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005		0.002 (J)
3/25/2020						<0.005	
9/23/2020	<0.005	<0.005	<0.005				
9/24/2020				<0.005	<0.005	<0.005	0.0016 (J)
2/9/2021		<0.005	<0.005	<0.005	<0.005		
2/10/2021						<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.005	<0.005	<0.005	<0.005			
3/4/2021					<0.005	<0.005	<0.005
8/26/2021			<0.005			<0.005	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					<0.005		
9/3/2021							<0.005
2/8/2022						<0.005	0.0014 (J)
2/9/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/30/2022	<0.005	<0.005	<0.005		<0.005		
8/31/2022				<0.005		<0.005	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	<0.005	<0.005	<0.005		
6/9/2016					<0.005
7/26/2016	0.0009 (J)	<0.005	0.0009 (J)		
8/2/2016					<0.005
8/31/2016				<0.005	
9/14/2016	<0.005	<0.005	<0.005		
9/21/2016					<0.005
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				<0.005	
1/12/2017		<0.005	<0.005		
1/13/2017	<0.005				
1/19/2017					<0.005
2/22/2017				<0.005	<0.005
3/6/2017	<0.005				
3/7/2017		<0.005	<0.005		
5/1/2017	<0.005	<0.005			
5/2/2017			<0.005		
5/8/2017				<0.005	<0.005
6/27/2017		<0.005	<0.005		
6/29/2017	<0.005				
7/5/2017					<0.005
7/17/2017				<0.005	
10/16/2017				<0.005	
2/19/2018				<0.005	
3/29/2018	<0.005	<0.005	<0.005		<0.005
6/6/2018		<0.005			
6/7/2018	<0.005		<0.005		
8/6/2018				<0.005	
9/26/2018	<0.005	<0.005	<0.005		
2/25/2019				<0.005	
2/27/2019					<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
4/3/2019	<0.005	<0.005	<0.005		
6/12/2019				<0.005	
8/19/2019				<0.005	
9/24/2019		<0.005	<0.005		
9/25/2019	<0.005				<0.005
10/8/2019				<0.005	
2/12/2020	<0.005	<0.005	<0.005		
2/13/2020					<0.005
3/17/2020				<0.005	
3/20/2020					<0.005
3/24/2020		<0.005	<0.005		
3/25/2020	<0.005				
8/26/2020				<0.005	
9/22/2020	<0.005	<0.005	<0.005	<0.005	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					<0.005
3/2/2021		<0.005	<0.005	<0.005	
3/3/2021	0.0019 (J)				<0.005
8/20/2021				<0.005	<0.005
8/26/2021	<0.005	<0.005	<0.005		
2/8/2022				<0.005	<0.005
2/10/2022		<0.005	<0.005		
2/11/2022	<0.005				
8/30/2022		<0.005	<0.005	<0.005	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		<0.005		<0.005	
2/8/2023					<0.005
2/9/2023	<0.005		<0.005		



# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2				12
6/2/2016	6.6				1.3	5.8	
7/25/2016			3.7		1.2		8.4
7/26/2016	6.1	5.4				6.7	
9/13/2016		2.9	5.2				
9/14/2016				9.4			8.6
9/15/2016	6.1					6	
9/19/2016					1.2		
11/1/2016		3.9			1.3	4.9	8.9
11/2/2016	6.3						
11/4/2016			5	13			
12/15/2016				1.8			
1/10/2017	5.9						
1/11/2017		3.7				4.5	8.6
1/16/2017			7.9	11	<1.5		
2/21/2017					1.4		
3/1/2017							9.3
3/2/2017		4.6	7.4			4.4	
3/3/2017				8.8			
3/8/2017	7						
4/26/2017	7				1.4	5.1	11
4/27/2017		5.2	7.4				
4/28/2017				10			
5/26/2017				12			
6/27/2017		5.9	6.4				
6/28/2017				11		5.4	12
6/30/2017	6.5				<1.5		
10/3/2017		6.6	5.9	7.9			
10/4/2017					1.4	6.2	12
10/5/2017	7.9						
6/5/2018		6.4					
6/6/2018			4.4				
6/7/2018				8.8		6.7	
6/8/2018	6.4						9.6
6/11/2018					1.1		
10/1/2018	6.8	5.6	4	9.1		7.1	9.1
10/2/2018					1		
3/28/2019		8	4.3				
3/29/2019	7.3			9			
4/1/2019					0.96 (J)	7.2	8.5
9/24/2019		5.3	4.3	9.1			
9/25/2019	6.6				0.81 (J)	7	13.8
3/18/2020	8.1		5.3				
3/19/2020		10		12.4	1.6	9	12.9
9/23/2020		8.1	3.4	11.8		6.9	16.8
9/24/2020					0.69 (J)		
9/25/2020	6.1						
3/1/2021					0.88 (J)		
3/2/2021	6						
3/3/2021		9	4.4	10.6		7	9.6
8/19/2021	6.7	8.9	4.9		1	7.5	
8/27/2021				16.7			18.2

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		9.3	5.1	18		7.2	16
2/10/2022	6.2						
2/11/2022					2.8		
8/30/2022		10.2		20.1			
8/31/2022	5.8		4.8		1.1	6.9	13.9
2/7/2023		10.6	6.6	17.8			
2/8/2023	6.1				0.96 (J)	7.5	14.7

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	
8/30/2016							160
9/20/2016	78	100	5.6	21			
9/21/2016					8	<4.7 (*)	
11/7/2016	81	100	5.4	24		4.3	
11/8/2016					8.3		
11/14/2016							150
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			
2/21/2017	80	96				3	
2/22/2017				24	8.2		
2/23/2017			4.9				
2/24/2017							120
5/3/2017		100					
5/5/2017					<8.4 (*)	<4.7 (*)	
5/8/2017	84		3.9	23			120
6/30/2017			5	23			
7/5/2017					8.1		
7/7/2017						2.7	
7/10/2017	84	100					
7/11/2017							110
10/5/2017					8.6		
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					93
4/2/2018							88.8
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
9/19/2018							75
10/2/2018	83.9	99	6.1	20.2			
10/3/2018					8	2.1	
3/27/2019							65.9
4/1/2019			4.1	18.3	8.2		
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					
9/26/2019			4.2	18.2	7.9	1.6	
10/8/2019							52.3
3/17/2020							71.6
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			
9/22/2020							51.5
9/24/2020	85.6	92.3	3	16.6	7.2	0.99 (J)	
3/1/2021							51.6
3/2/2021		92.7					
3/3/2021	89.3		2.6	451 (o)	8.6	4.9	
8/19/2021		86.5					52.6
8/20/2021	84		2.9	18	8.9	5.4	
2/8/2022				16.3	8.1	10.5	50.9
2/10/2022	81.8	86.5	2.4				

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	85.9	90.2					48
9/1/2022			2.5	13.5	7.6	13.4	
2/8/2023							50.5
2/9/2023	84.2	89.7	3.2	13.7	7.4	16	

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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	<1.5				
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	<1.5				
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					
10/11/2017						20	
10/12/2017							17
11/20/2017						24	71
1/10/2018							66
1/11/2018						23	
2/19/2018							57.2
2/20/2018						20.6	
4/3/2018						24.5	49.4
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)				
6/28/2018						22	43.8
8/7/2018						20.7	40.5
9/24/2018						21.2	39.7
9/25/2018	6.1	1	1.5	0.13 (J)	7		
3/26/2019							34.3
3/27/2019						17.7	
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		0.64 (J)	1				
10/9/2019						15	27.9
3/24/2020	5.4	<1	0.99 (J)	<1	3		25.2
3/25/2020						14.3	
9/23/2020	5.1	0.53 (J)	1.1				
9/24/2020				<1	3.6	11.7	22.9
3/3/2021	5.2	<1	1	<1			
3/4/2021					4.5	12	21.5
8/26/2021			1.2			19.2	
8/27/2021	5.3	0.59 (J)		<1			

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					5		
9/3/2021							21.3
2/8/2022						14.6	17.9
2/9/2022	4.8	0.51 (J)	1.1	<1	3.9		
8/30/2022	4.7	0.78 (J)	1.3		3.2		
8/31/2022				<1		10.9	17.9
2/7/2023	4.9	0.78 (J)	1.2	<1	3.8	9.7	
2/8/2023							17.5

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/2/2016	8	20	1.9		
6/9/2016					33
7/26/2016	7.7	20	1.8		
8/2/2016					32
8/31/2016				29	
9/14/2016	7.5	19	1.8		
9/21/2016					32
11/2/2016	8.2	20			
11/4/2016			2		
11/7/2016					33
11/28/2016				36	
1/12/2017		19	1.9		
1/13/2017	8.1				
1/19/2017					32
2/22/2017				43	31
3/6/2017	8				
3/7/2017		20	2.1		
5/1/2017	8.4	20			
5/2/2017			2		
5/8/2017				60	32
6/27/2017		18	2.1		
6/29/2017	9.2				
7/5/2017					31
7/17/2017				63	
10/3/2017		16	2.3		
10/5/2017	9.6				31
10/16/2017				62	
2/19/2018				64.6	
6/6/2018		8.3			
6/7/2018	8.5		2		
6/11/2018					30.6
8/6/2018				42.1	
9/26/2018	10.2	7.9	2.3		
10/2/2018					30.8
2/25/2019				42.1	
4/1/2019					30.4
4/3/2019	8.5	7	2.1		
6/12/2019				83.4	
9/24/2019		5.5	2.4		
9/25/2019	8.5				30
10/8/2019				128	
3/17/2020				98.6	
3/20/2020					33
3/24/2020		5.9	2.1		
3/25/2020	8.8				
9/22/2020	8.2	5.5	2.1	145	
9/24/2020					26.2
3/2/2021		2.6	2.3	156	
3/3/2021	7.8				26.6
8/20/2021				121	24.7
8/26/2021	8.5	6	2.4		
2/8/2022				107	22.9

# Time Series

Constituent: Sulfate (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/10/2022		4.9	2.4		
2/11/2022	7.7				
8/30/2022		5.7	2.4	101	
8/31/2022	8				
9/1/2022					21.2
2/7/2023		5.2		82.4	
2/8/2023					23.7
2/9/2023	8.9		2.9		



# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.001	<0.001				<0.001
6/2/2016	<0.001				<0.001	<0.001	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		<0.001	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					<0.001	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		<0.001	<0.001			<0.001	
3/3/2017				<0.001			
3/8/2017	<0.001						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		<0.001	5.5E-05 (J)				
2/11/2020				<0.001			<0.001
2/12/2020	8.9E-05 (J)				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/23/2020		<0.001	<0.001	<0.001		<0.001	0.00016 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	<0.001			<0.001		<0.001	<0.001
2/11/2021					<0.001		
2/12/2021		<0.001	<0.001				
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		
8/30/2022		<0.001		<0.001			
8/31/2022	<0.001		<0.001	<0.001	<0.001	<0.001	<0.001
2/7/2023		<0.001	<0.001	<0.001			
2/8/2023	<0.001				<0.001	<0.001	<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.001	<0.001	<0.001	0.00012 (J)			
6/9/2016					<0.001	<0.001	
8/1/2016	<0.001	<0.001	<0.001	0.0001 (J)			
8/2/2016					<0.001	<0.001	
8/30/2016							<0.001
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					<0.001	<0.001	
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	
11/8/2016					<0.001		
11/14/2016							<0.001
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		
2/23/2017			<0.001				
2/24/2017							<0.001
5/3/2017		<0.001					
5/5/2017					<0.001	<0.001	
5/8/2017	<0.001		<0.001	0.0001 (J)			<0.001
6/30/2017			<0.001	0.0001 (J)			
7/5/2017					<0.001		
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
7/11/2017							<0.001
10/10/2017							<0.001
3/29/2018			<0.001	<0.001			
3/30/2018	<0.001	<0.001			<0.001	<0.001	
4/2/2018							<0.001
9/19/2018							<0.001
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/20/2019							5.8E-05 (J)
10/8/2019							8.4E-05 (J)
2/13/2020	<0.001	5.7E-05 (J)	<0.001	0.0001 (J)	<0.001	<0.001	
3/17/2020							<0.001
3/19/2020		5.5E-05 (J)			<0.001	<0.001	
3/20/2020	<0.001		<0.001	0.00011 (J)			
8/27/2020							<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/10/2021	<0.001	<0.001	<0.001	<0.001			
2/11/2021					<0.001		
2/12/2021						<0.001	
8/19/2021							<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					<0.001
9/1/2022			<0.001	<0.001	<0.001	<0.001	
2/8/2023							<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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		
10/11/2017						<0.001	
10/12/2017							<0.001
11/20/2017						<0.001	<0.001
1/10/2018							<0.001
1/11/2018						<0.001	
2/19/2018							<0.001
2/20/2018						<0.001	
3/28/2018	<0.001	<0.001	<0.001				
3/29/2018				<0.001	<0.001		
4/3/2018						<0.001	<0.001
6/28/2018						<0.001	<0.001
8/7/2018						<0.001	<0.001
9/24/2018						<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			
8/21/2019						<0.001	<0.001
9/24/2019					<0.001		
9/25/2019	<0.001			<0.001			
9/26/2019		<0.001	<0.001				
2/11/2020	<0.001	<0.001	<0.001				
2/12/2020				<0.001	<0.001	<0.001	<0.001
3/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
3/25/2020						<0.001	
9/23/2020	<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		
2/10/2021						<0.001	<0.001
2/8/2022						<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/30/2022	<0.001	<0.001	<0.001		<0.001		
8/31/2022				<0.001		<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/8/2023							<0.001

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2023 10:26 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
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	
6/2/2016	<0.001	<0.001	<0.001		
6/9/2016					<0.001
7/26/2016	<0.001	<0.001	<0.001		
8/2/2016					<0.001
8/31/2016				<0.001	
9/14/2016	<0.001	<0.001	<0.001		
9/21/2016					<0.001
11/2/2016	<0.001	<0.001			
11/4/2016			<0.001		
11/7/2016					<0.001
11/28/2016				<0.001	
1/12/2017		<0.001	<0.001		
1/13/2017	<0.001				
1/19/2017					<0.001
2/22/2017				<0.001	<0.001
3/6/2017	<0.001				
3/7/2017		<0.001	<0.001		
5/1/2017	<0.001	<0.001			
5/2/2017			<0.001		
5/8/2017				6E-05 (J)	<0.001
6/27/2017		<0.001	<0.001		
6/29/2017	<0.001				
7/5/2017					<0.001
7/17/2017				6E-05 (J)	
10/16/2017				7E-05 (J)	
2/19/2018				<0.001	
3/29/2018	<0.001	<0.001	<0.001		<0.001
8/6/2018				<0.001	
2/25/2019				<0.001	
2/27/2019					<0.001
3/4/2019	<0.001	<0.001	<0.001		
4/3/2019	<0.001	<0.001	<0.001		
6/12/2019				<0.001	
8/19/2019				5.5E-05 (J)	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
9/24/2019		<0.001	<0.001		
9/25/2019	<0.001				
10/8/2019				<0.001	
2/12/2020	<0.001	<0.001	<0.001		
2/13/2020					<0.001
3/17/2020				<0.001	
3/20/2020					<0.001
3/24/2020		<0.001	<0.001		
3/25/2020	<0.001				
8/26/2020				<0.001	
9/22/2020	<0.001	<0.001	<0.001	<0.001	
9/24/2020					<0.001
2/8/2021		<0.001	<0.001		
2/9/2021	<0.001				
2/12/2021					<0.001
3/2/2021				<0.001	
8/20/2021				<0.001	
2/8/2022				<0.001	<0.001
2/10/2022		<0.001	<0.001		
2/11/2022	<0.001				
8/30/2022		<0.001	<0.001	<0.001	
8/31/2022	<0.001				
9/1/2022					<0.001
2/7/2023		<0.001		<0.001	
2/8/2023					0.00021 (J)
2/9/2023	<0.001		<0.001		

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54				150
6/2/2016	46				36	130	
7/25/2016			48		50		135
7/26/2016	54	94				141	
9/13/2016		105	67				
9/14/2016				152			127
9/15/2016	54					153	
9/19/2016					35		
11/1/2016		44			<25	92	75
11/2/2016	71						
11/4/2016			60	148			
12/15/2016				191			
1/10/2017	45						
1/11/2017		107				159	148
1/16/2017			65	180	47		
2/21/2017					<25		
3/1/2017							182
3/2/2017		98	61			117	
3/3/2017				156			
3/8/2017	178						
4/26/2017	52				55	181	92
4/27/2017		116	31				
4/28/2017				130			
5/26/2017				223			
6/27/2017		89	42				
6/28/2017				166		169	126
6/30/2017	45				42		
10/3/2017		119	58	153			
10/4/2017					31	141	147
10/5/2017	40						
6/5/2018		127					
6/6/2018			96				
6/7/2018				146		95	
6/8/2018	114						158
6/11/2018					59		
10/1/2018	50	117	60	155		165	138
10/2/2018					57		
3/28/2019		87	87				
3/29/2019	63			150			
4/1/2019					54	149	19 (J)
9/24/2019		124	54	146			
9/25/2019	64				51	157	159
3/18/2020	57		35				
3/19/2020		116		148	47	146	148
9/23/2020		108	15	161		157	155
9/24/2020					51		
9/25/2020	54						
3/1/2021					23		
3/2/2021	67						
3/3/2021		99	39	138		137	111
8/19/2021	54	105	44		50	144	
8/27/2021				150			155

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		105	57	156		154	145
2/10/2022	56						
2/11/2022					66		
8/30/2022		116		153			
8/31/2022	51		46		33	141	137
2/7/2023		131	121	159			
2/8/2023	56				43	144	145



# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	220	200	190	210			
6/9/2016					240	210	
8/1/2016	211	191	191	209			
8/2/2016					226	202	
8/30/2016							319
9/20/2016	217	213	205	224			
9/21/2016					214	216	
11/7/2016	301	284	264	291		399	
11/8/2016					229		
11/14/2016							280
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			
2/21/2017	158	137				198	
2/22/2017				262	310		
2/23/2017			253				
2/24/2017							162
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			194
6/30/2017			193	209			
7/5/2017					217		
7/7/2017						236	
7/10/2017	219	183					
7/11/2017							193
10/5/2017					221		
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					175
4/2/2018							192
6/12/2018				208	234	243	
6/13/2018	228	196	219				
9/19/2018							186
10/2/2018	227	191	227	206			
10/3/2018					232	237	
3/27/2019							170
4/1/2019			198	221	238		
4/2/2019	223	224				<25	
9/25/2019	225	190					
9/26/2019			198	225	241	239	
10/8/2019							172
3/17/2020							165
3/19/2020		194			212	202	
3/20/2020	211		195	182			
9/22/2020							141
9/24/2020	212	171	186	185	209	226	
3/1/2021							145
3/2/2021		154					
3/3/2021	205		173	178	184	217	
8/19/2021		176					134
8/20/2021	224		196	169	194	192	
2/8/2022				159	206	216	151
2/10/2022	207	168	190				

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	228	206					116
9/1/2022			193	124	186	225	
2/8/2023							141
2/9/2023	366	196	189	116	184	226	

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (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					
10/11/2017						68	
10/12/2017							74
11/20/2017						139	179
1/10/2018							140
1/11/2018						153	
2/19/2018							119
2/20/2018						87	
4/3/2018						85	106
6/5/2018					109		
6/6/2018				79			
6/7/2018		68					
6/11/2018	70		74				
6/28/2018						88	112
8/7/2018						89	103
9/24/2018						82	107
9/25/2018	86	109	63	73	122		
3/26/2019							90
3/27/2019						75	
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				
10/9/2019						119	98
3/24/2020	71	91	59	76	117		84
3/25/2020						158	
9/23/2020	99	103	81				
9/24/2020				69	113	170	77
3/3/2021	57	95	37	53			
3/4/2021					110	168	57
8/26/2021			31			249	
8/27/2021	93	112		67			

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					137		
9/3/2021							88
2/8/2022						248	93
2/9/2022	81	103	60	72	131		
8/30/2022	81	100	52		122		
8/31/2022				62		242	92
2/7/2023	78	96	55	89	163	224	
2/8/2023							115

# Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2023 10:26 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
6/2/2016	96	160	66		
6/9/2016					150
7/26/2016	92	177	78		
8/2/2016					155
8/31/2016				209	
9/14/2016	102	187	73		
9/21/2016					138
11/2/2016	115	181			
11/4/2016			75		
11/7/2016					291
11/28/2016				102	
1/12/2017		202	86		
1/13/2017	67				
1/19/2017					145 (D)
2/22/2017				164	185
3/6/2017	159				
3/7/2017		257	108		
5/1/2017	107	165			
5/2/2017			103		
5/8/2017				145	114
6/27/2017		189	73		
6/29/2017	79				
7/5/2017					136
7/17/2017				185	
10/3/2017		170	89		
10/5/2017	95				139
10/16/2017				218	
2/19/2018				173	
6/6/2018		151			
6/7/2018	90		142		
6/11/2018					156
8/6/2018				158	
9/26/2018	116	144	86		
10/2/2018					154
2/25/2019				92	
4/1/2019					147
4/3/2019	111	142	83		
6/12/2019				226	
9/24/2019		129	79		
9/25/2019	117				162
10/8/2019				276	
3/17/2020				185	
3/20/2020					137
3/24/2020		139	68		
3/25/2020	146				
9/22/2020	83	104	75	281	
9/24/2020					133
3/2/2021		52	67	296	
3/3/2021	80				110
8/20/2021				254	110
8/26/2021	93	123	86		
2/8/2022				283	120

# Time Series

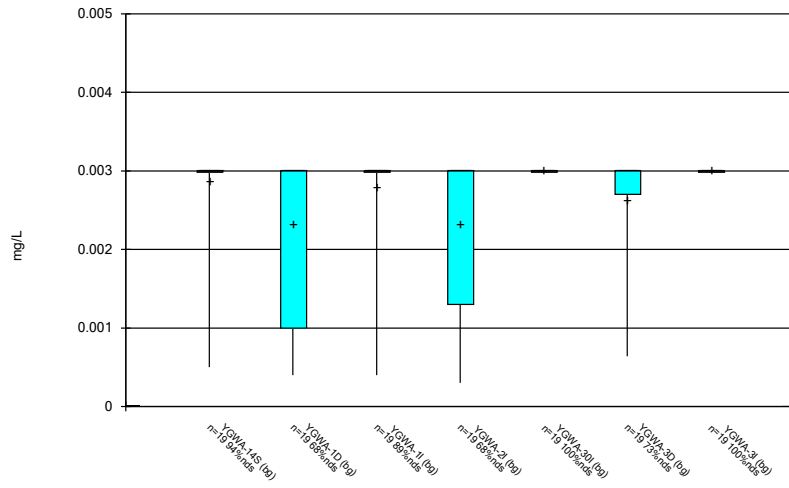
Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/27/2023 10:26 AM  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IA
2/10/2022		127	77		
2/11/2022	102				
8/30/2022		148	86	244	
8/31/2022	92				
9/1/2022					128
2/7/2023		180		207	
2/8/2023					158
2/9/2023	124		59		

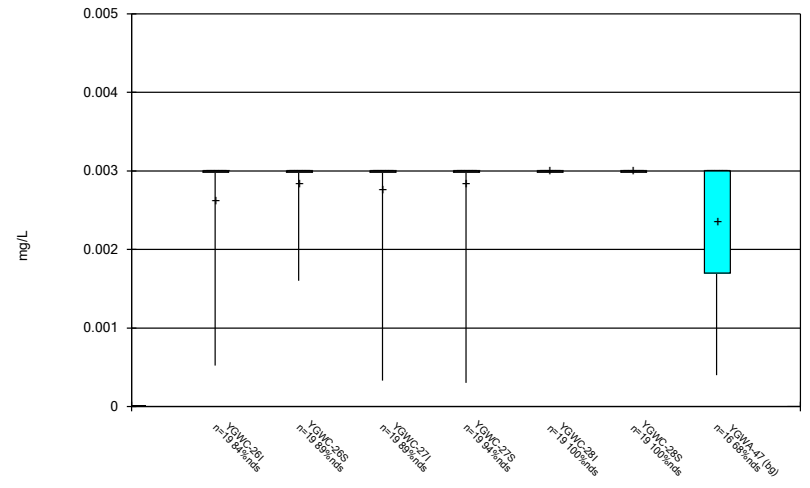
FIGURE B.

Box & Whiskers Plot



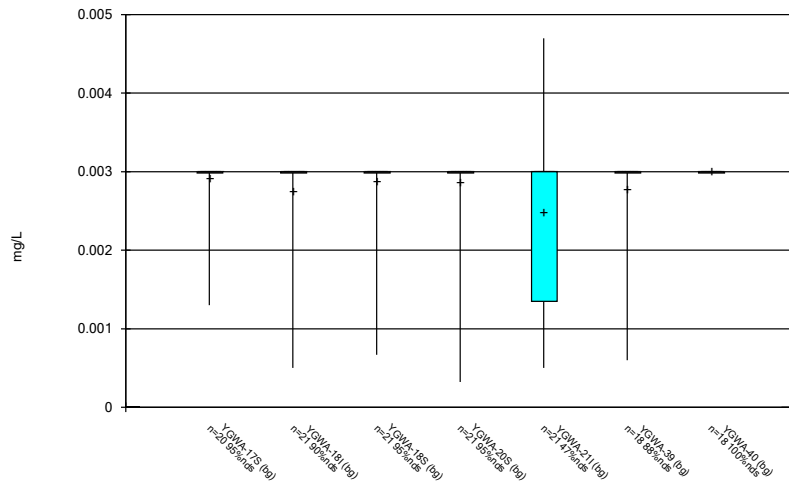
Constituent: Antimony Analysis Run 4/27/2023 10:54 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



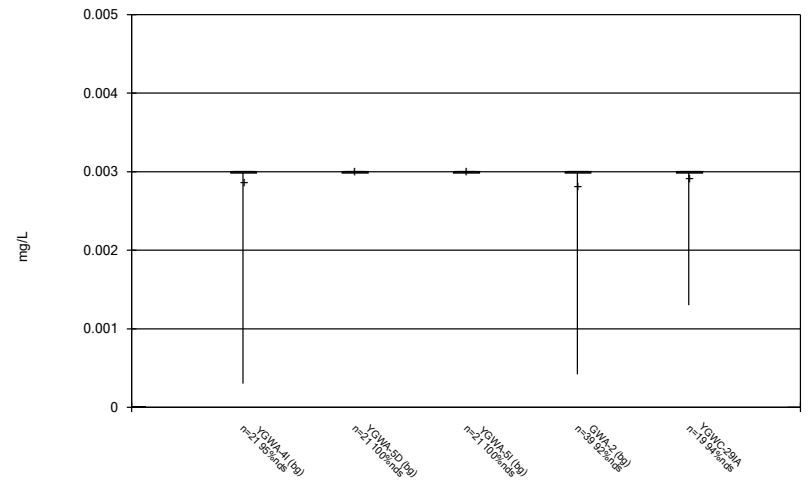
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Antimony Analysis Run 4/27/2023 10:54 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

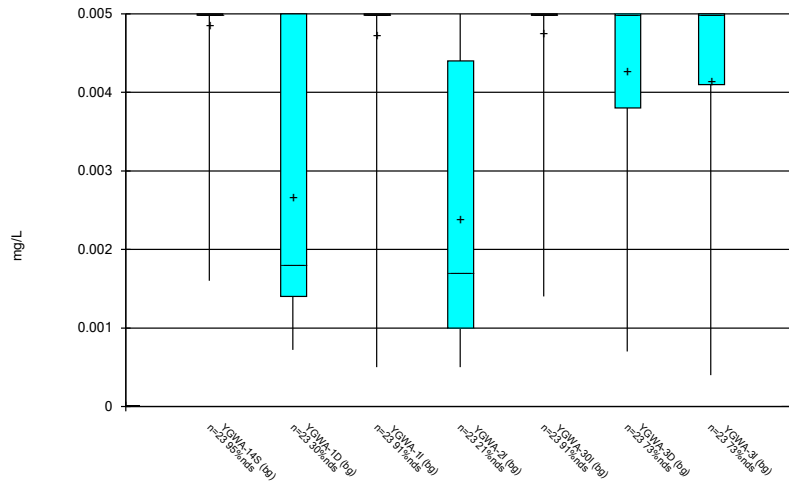
Box & Whiskers Plot



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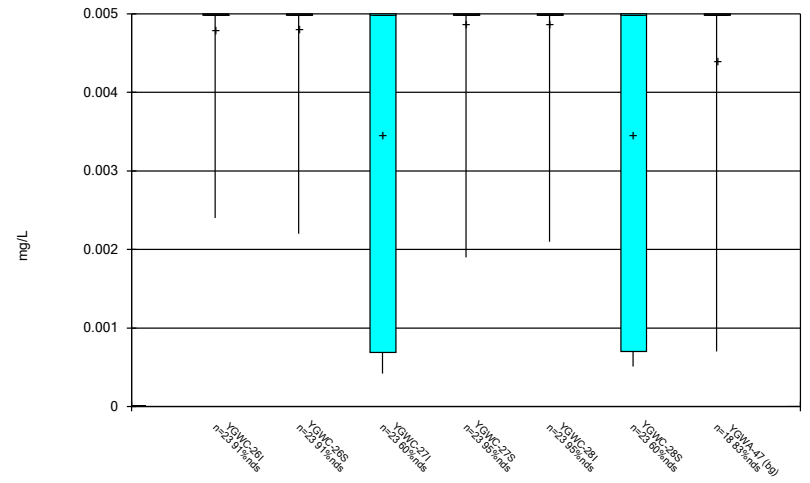


Box & Whiskers Plot



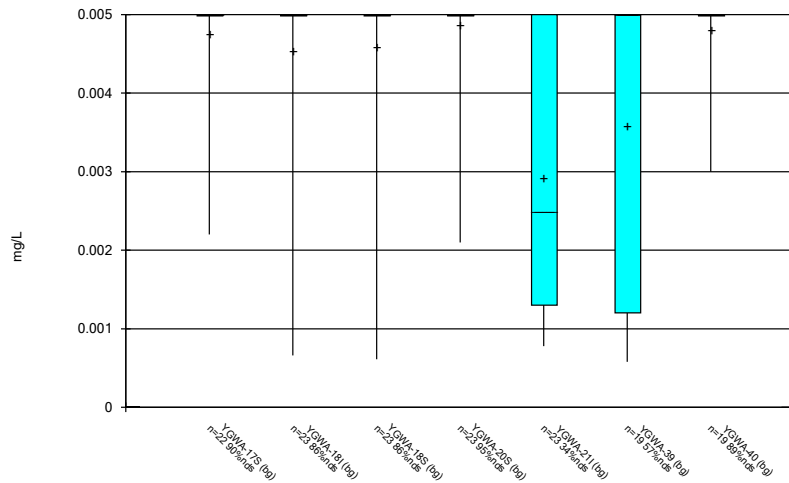
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Box & Whiskers Plot



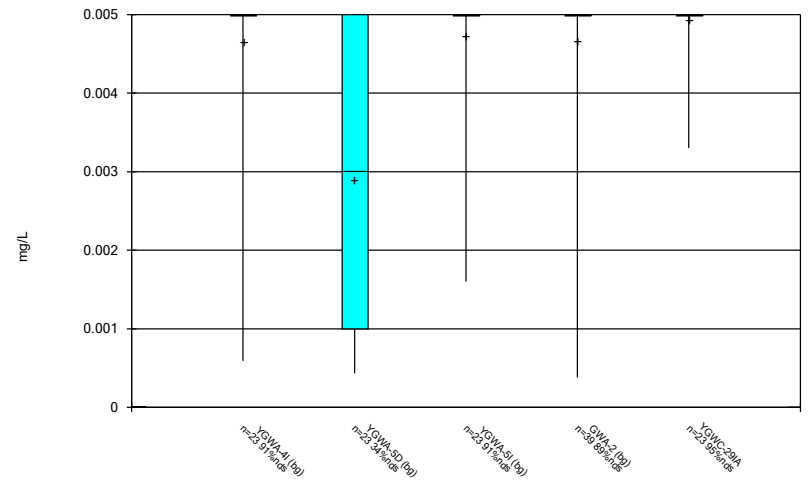
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



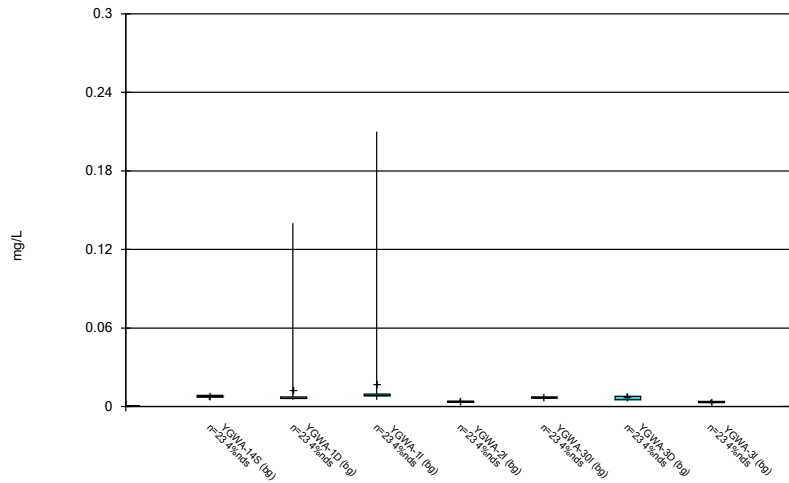
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Box & Whiskers Plot



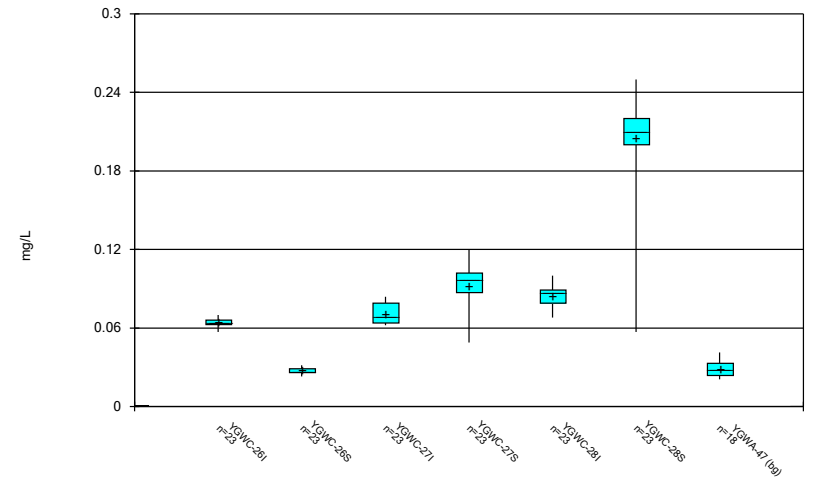
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### Box & Whiskers Plot



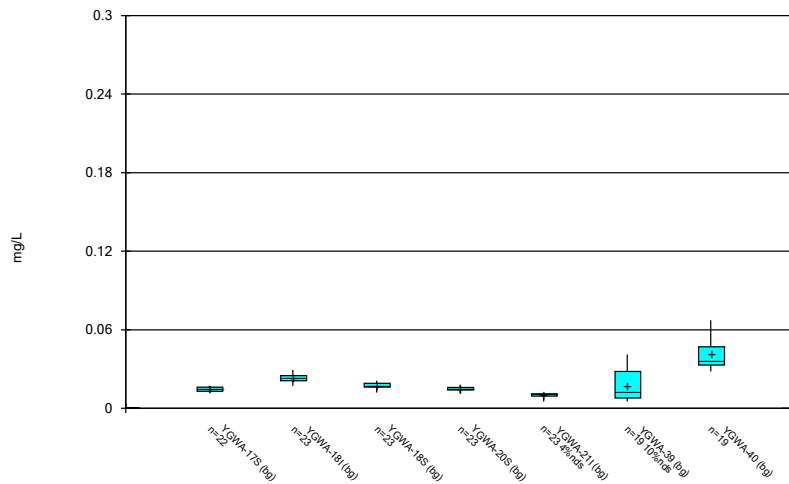
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### Box & Whiskers Plot



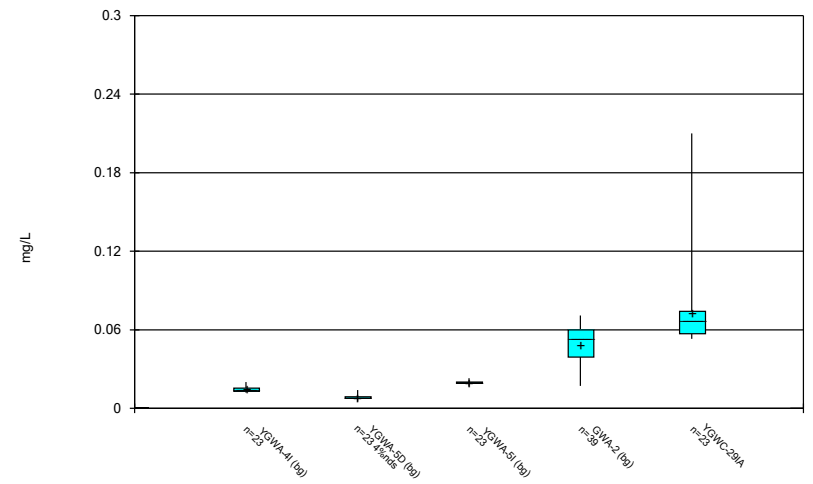
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### Box & Whiskers Plot



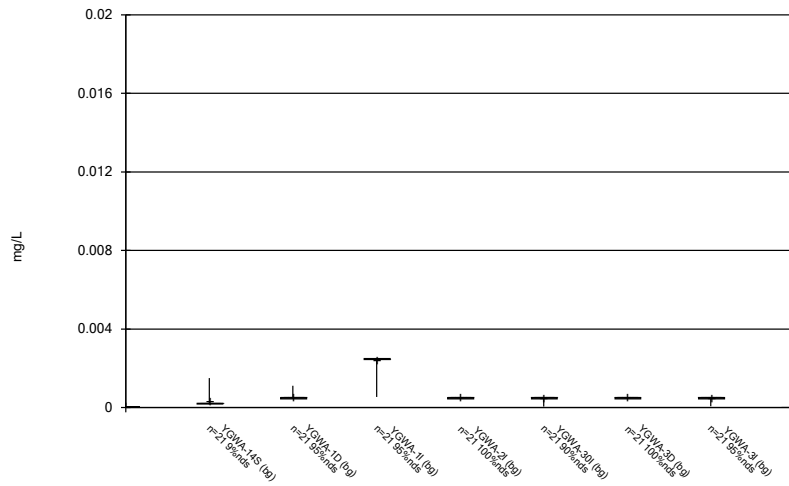
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### Box & Whiskers Plot



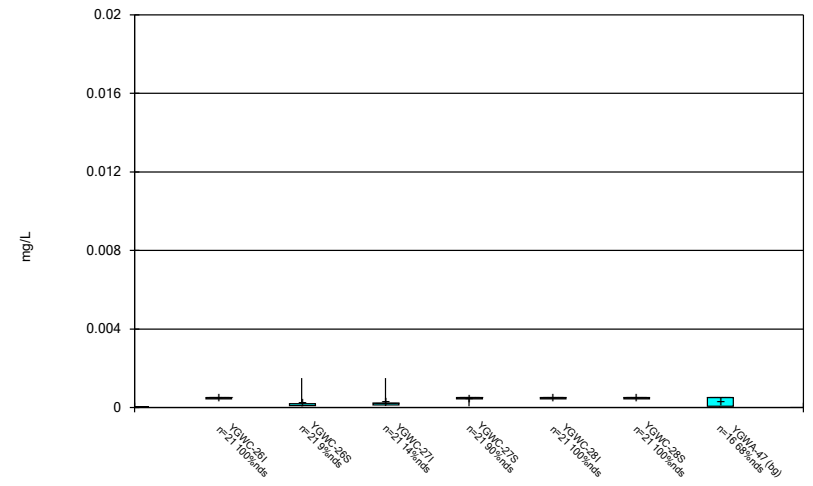
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Box & Whiskers Plot



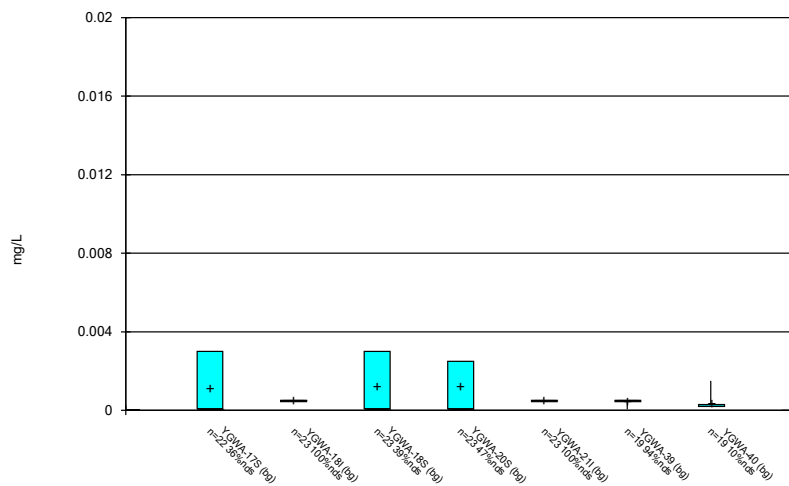
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



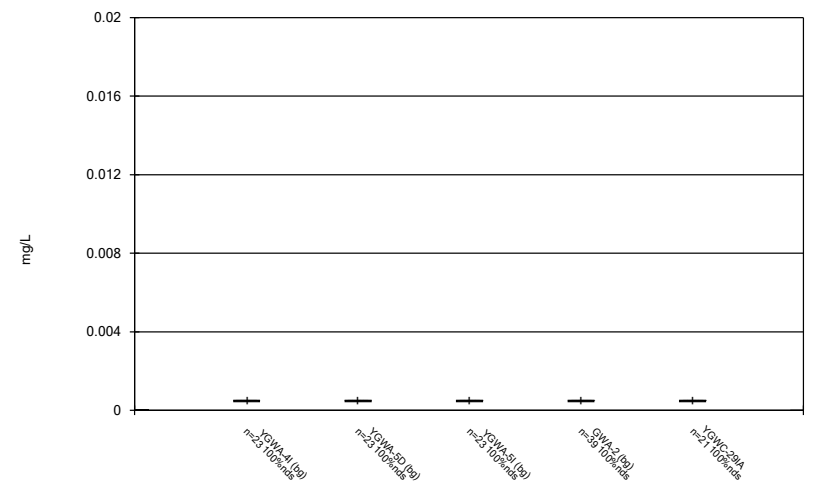
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



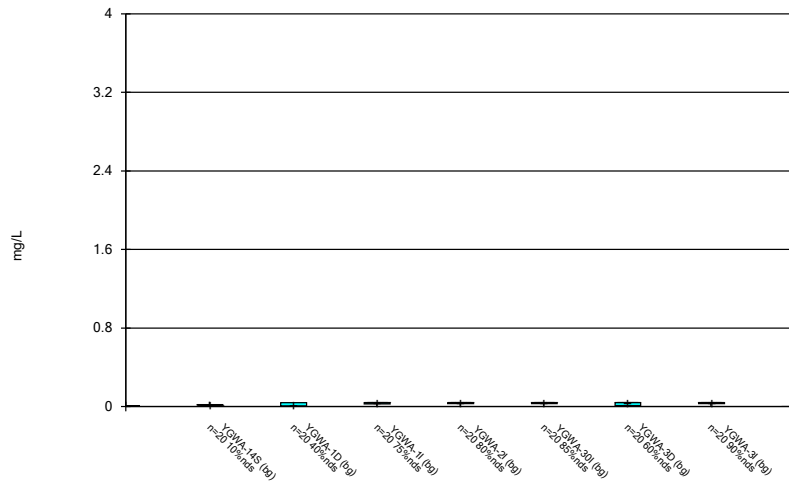
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Box & Whiskers Plot



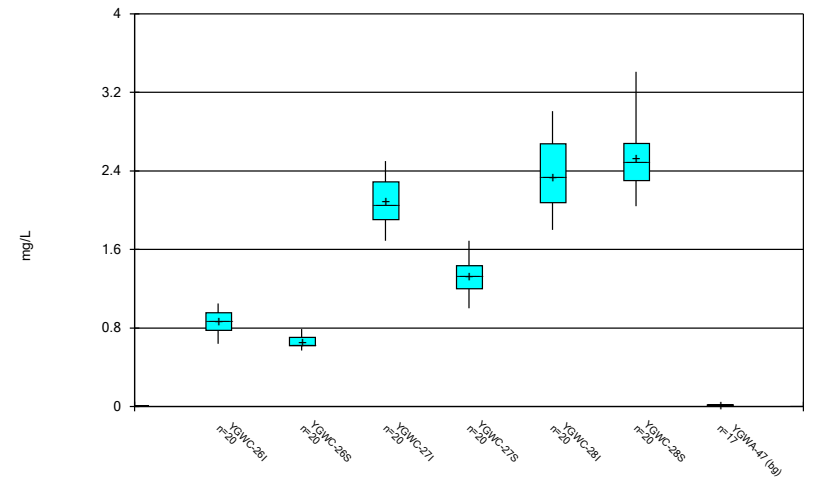
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Box & Whiskers Plot



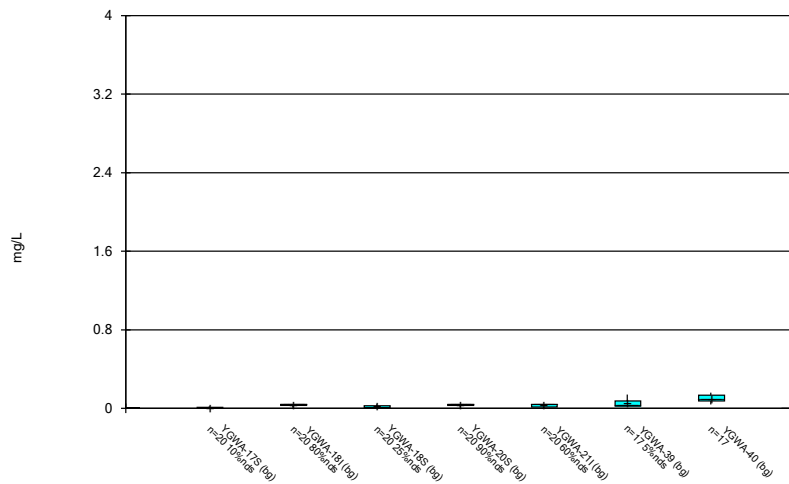
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### Box & Whiskers Plot



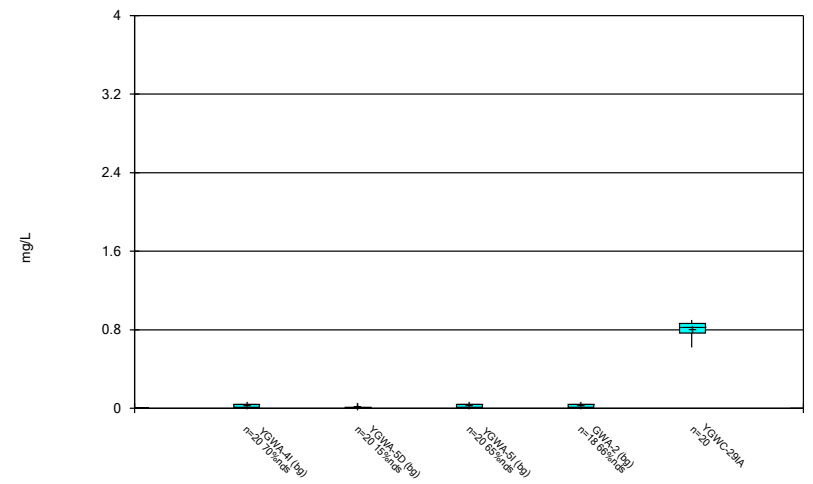
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### Box & Whiskers Plot



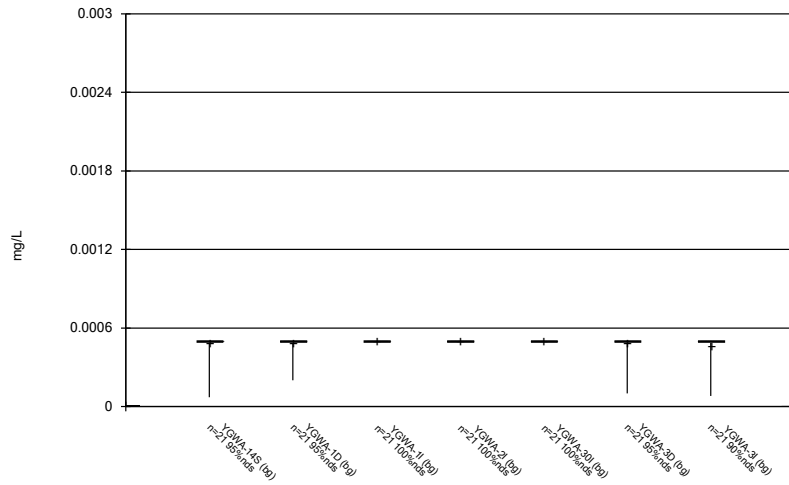
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### Box & Whiskers Plot



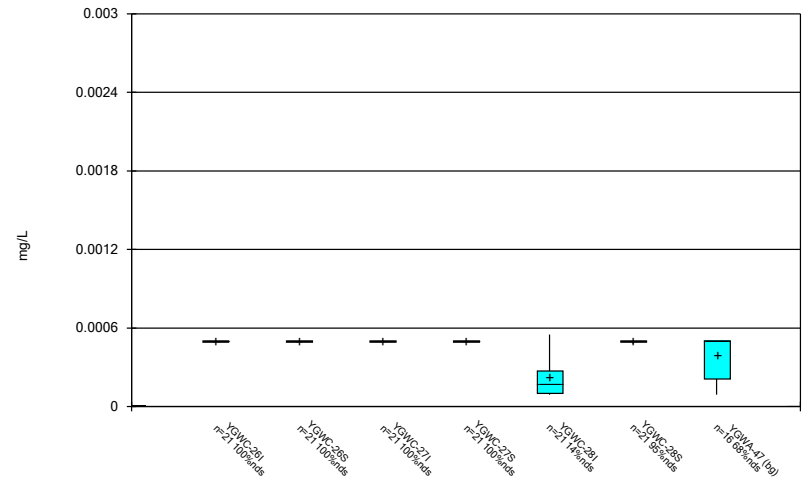
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### Box & Whiskers Plot



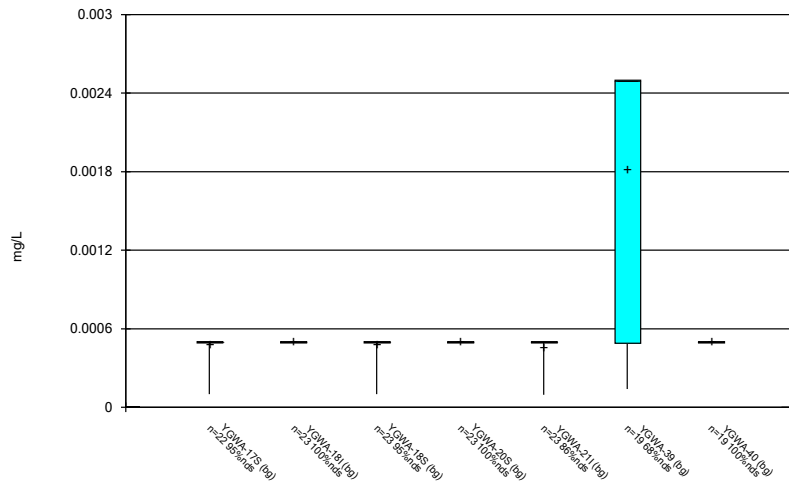
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### Box & Whiskers Plot



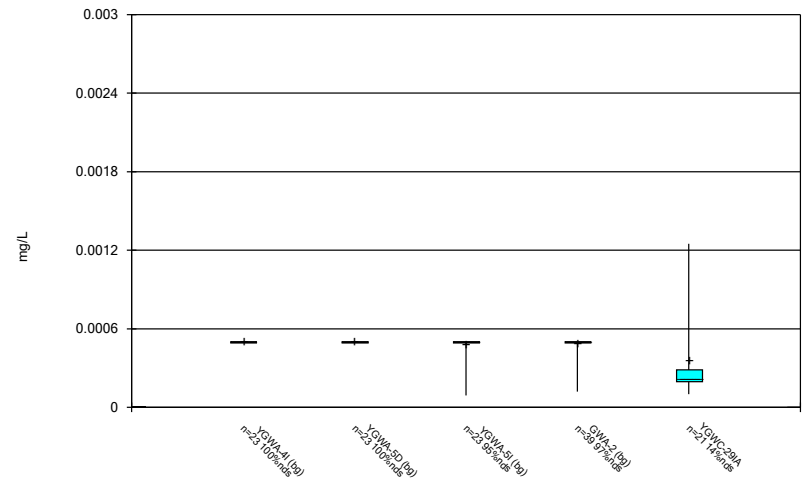
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### Box & Whiskers Plot



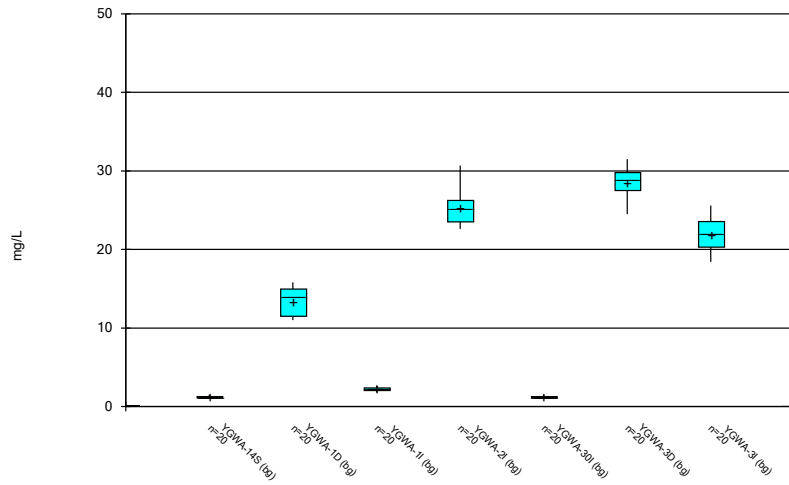
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### Box & Whiskers Plot



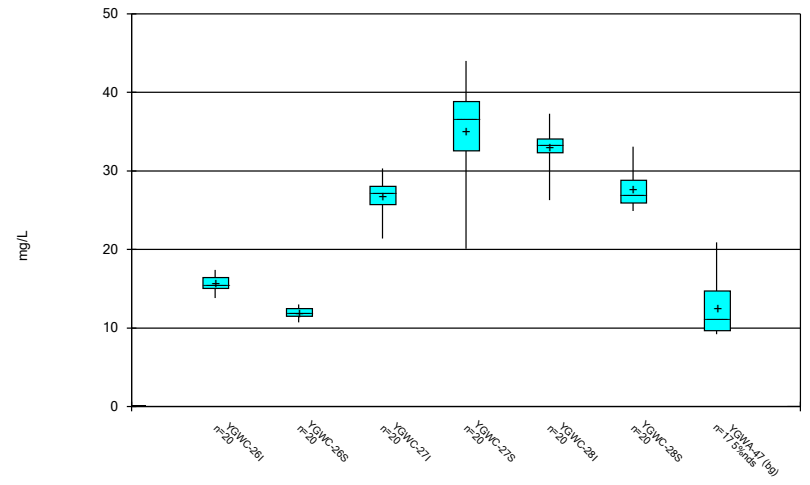
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Box & Whiskers Plot



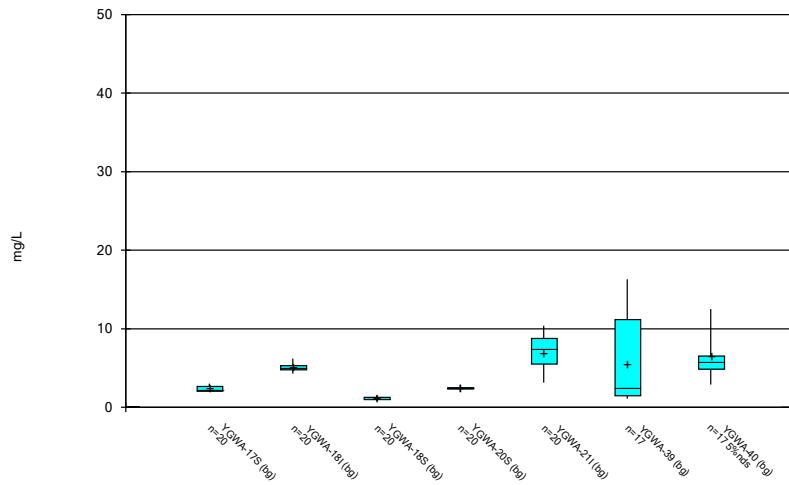
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Box & Whiskers Plot



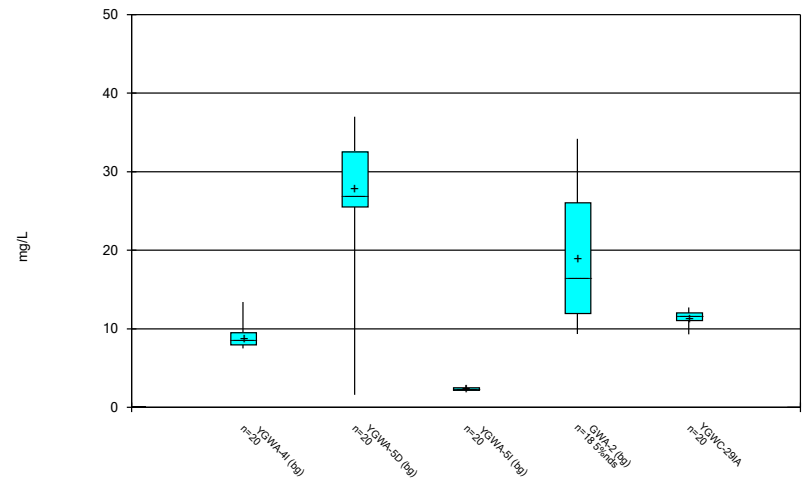
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Box & Whiskers Plot



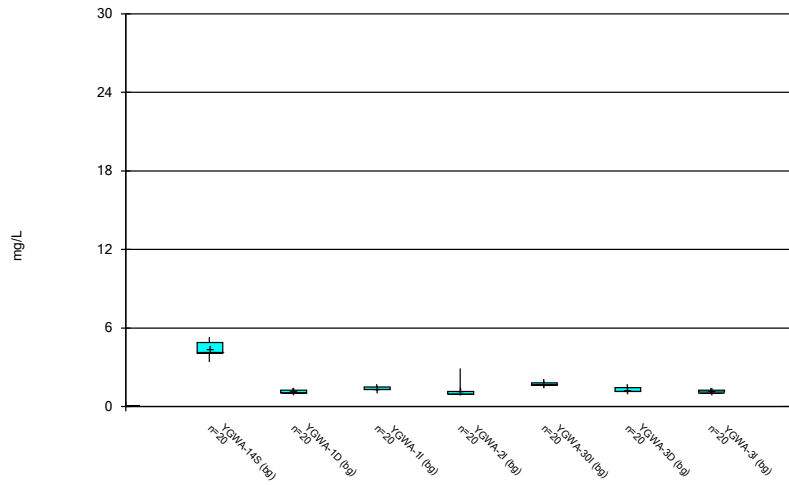
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Box & Whiskers Plot



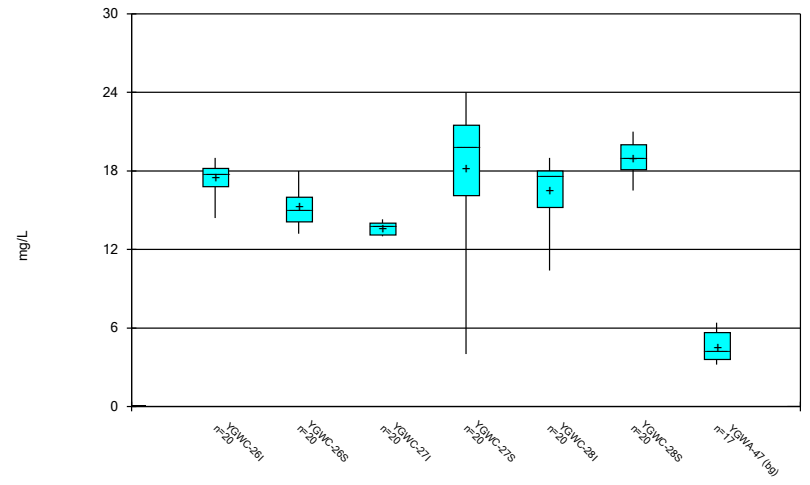
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Box & Whiskers Plot



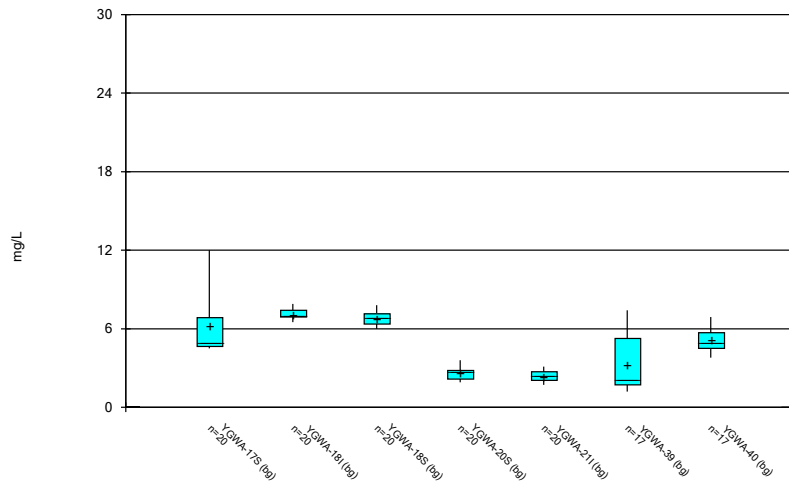
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Box & Whiskers Plot



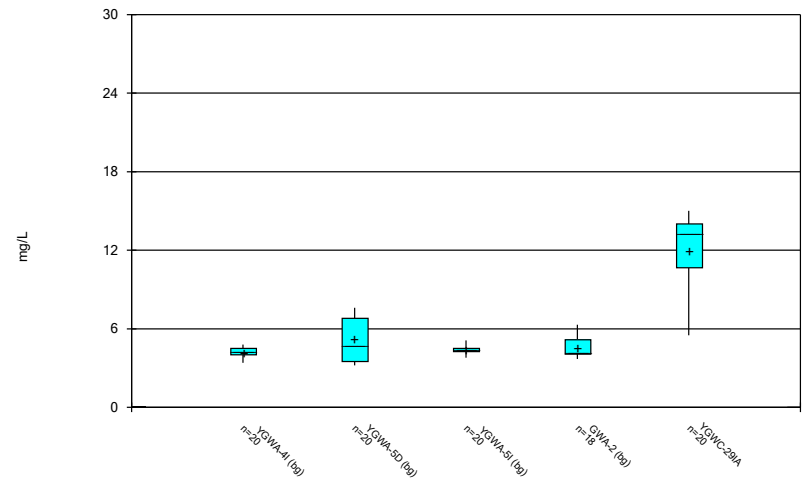
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Box & Whiskers Plot



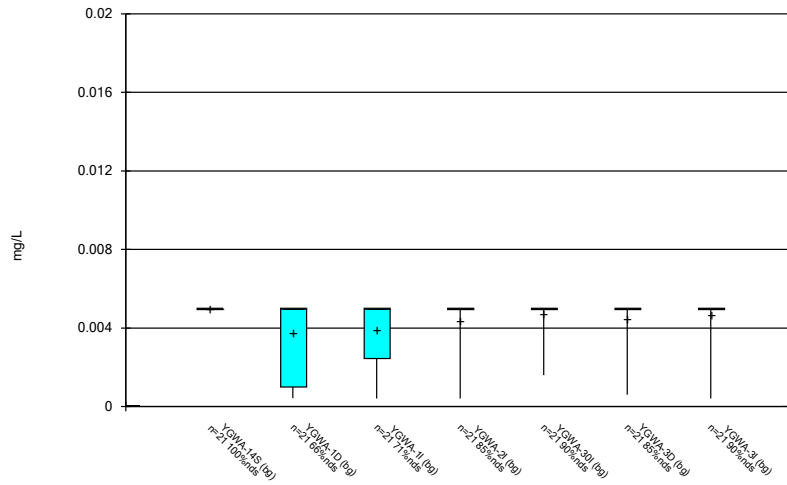
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Box & Whiskers Plot



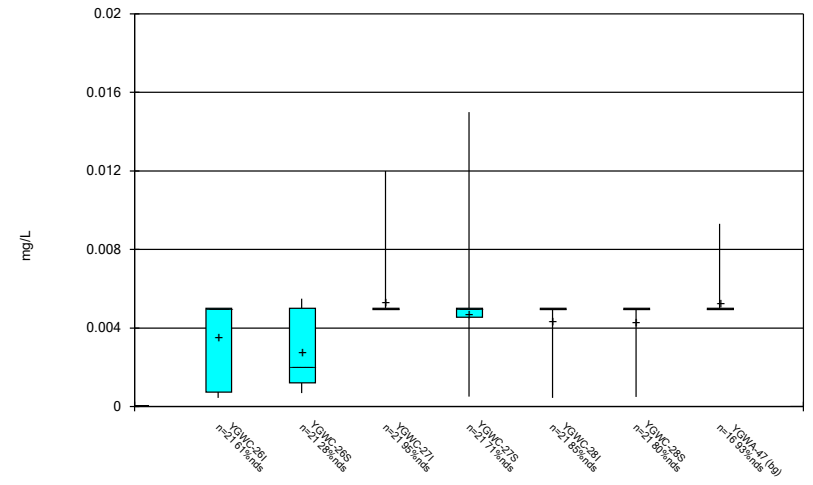
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Box & Whiskers Plot



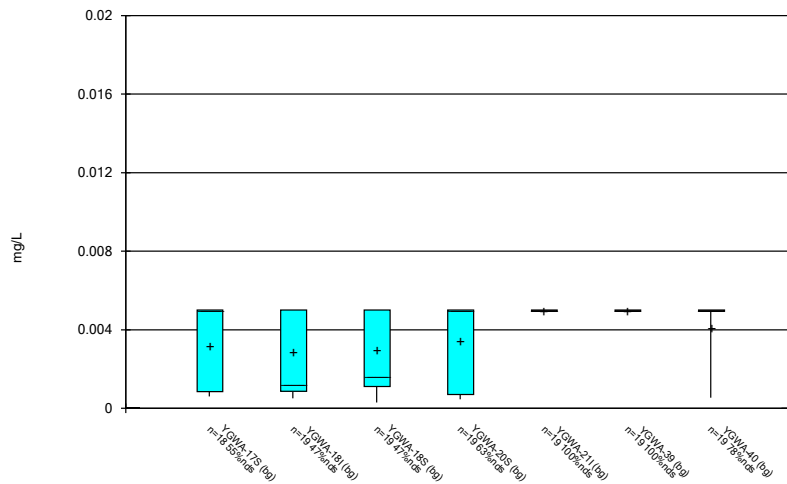
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Box & Whiskers Plot



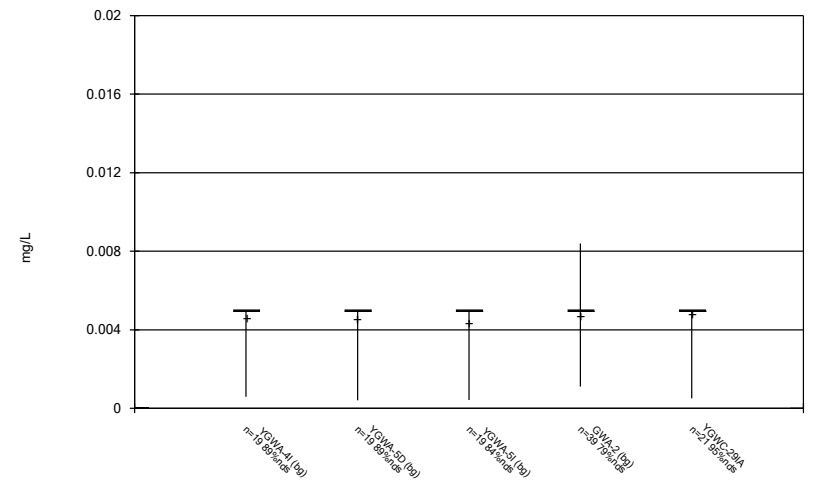
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Box & Whiskers Plot



Constituent: Chromium Analysis Run 4/27/2023 10:55 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

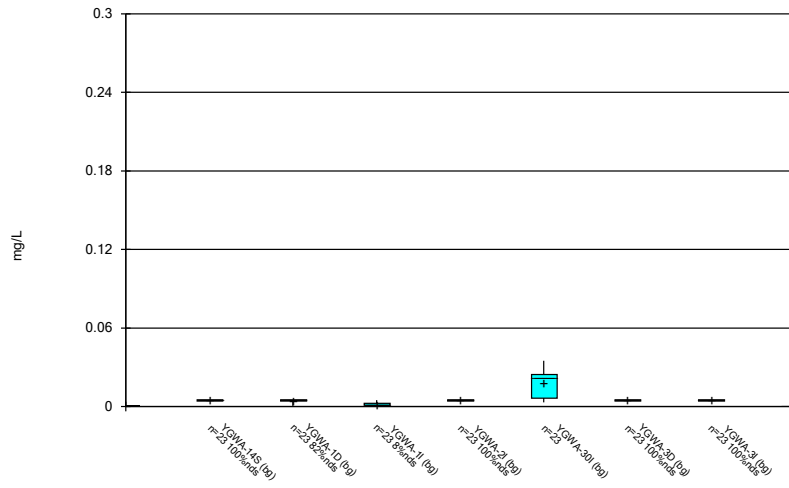
Box & Whiskers Plot



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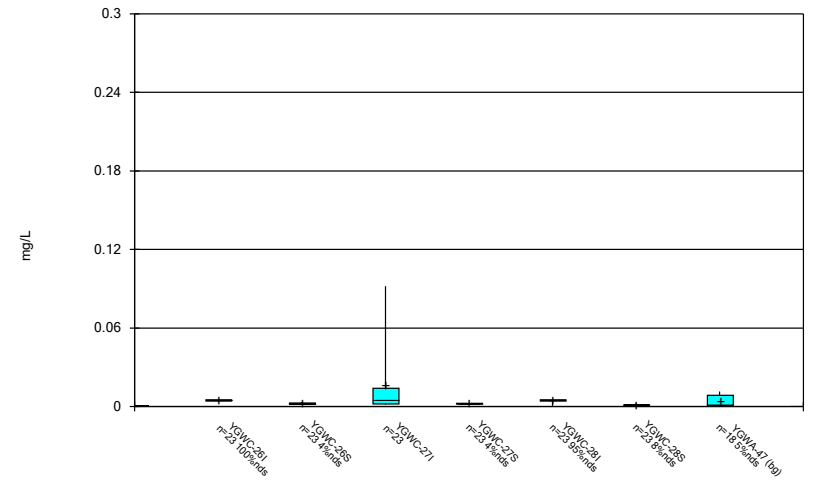


### Box & Whiskers Plot



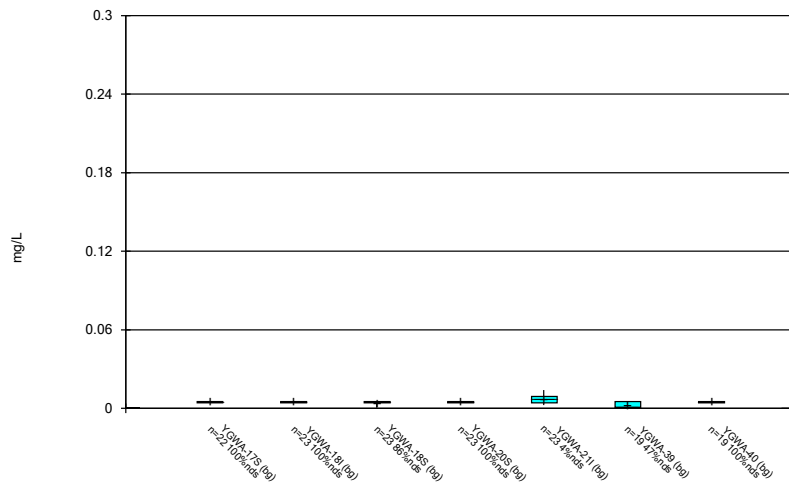
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### Box & Whiskers Plot



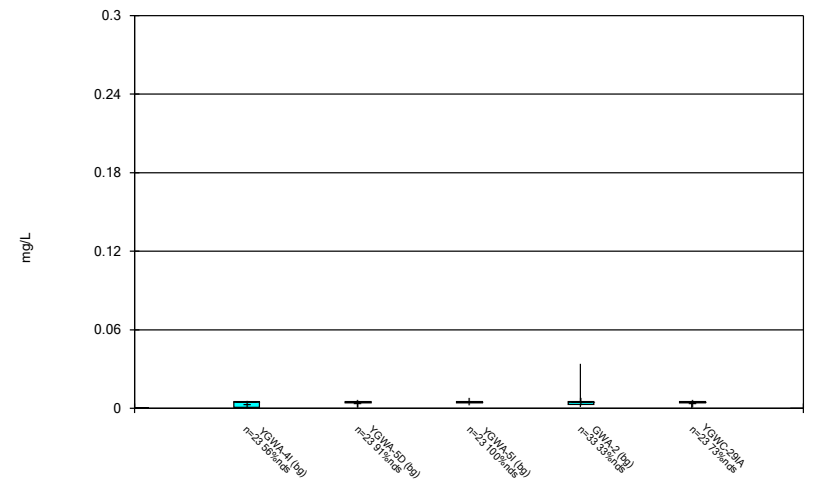
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### Box & Whiskers Plot



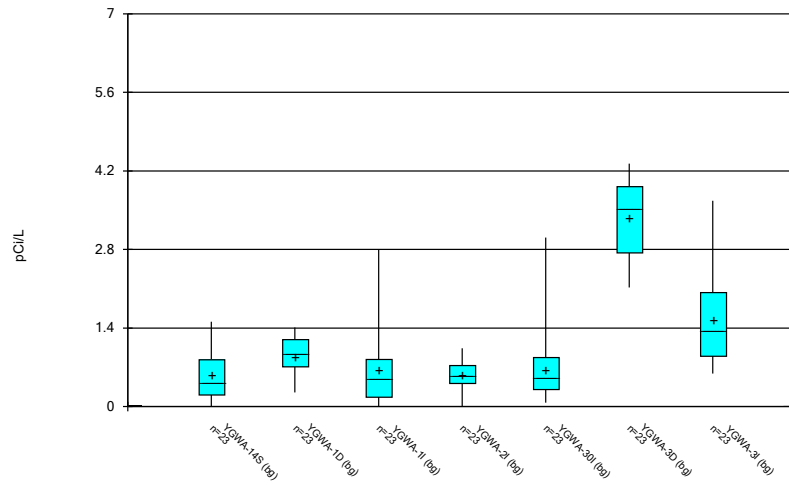
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### Box & Whiskers Plot



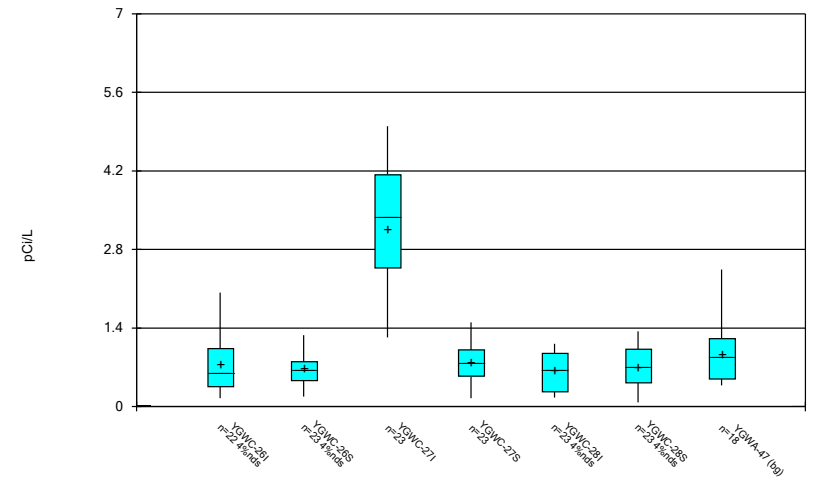
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Box & Whiskers Plot



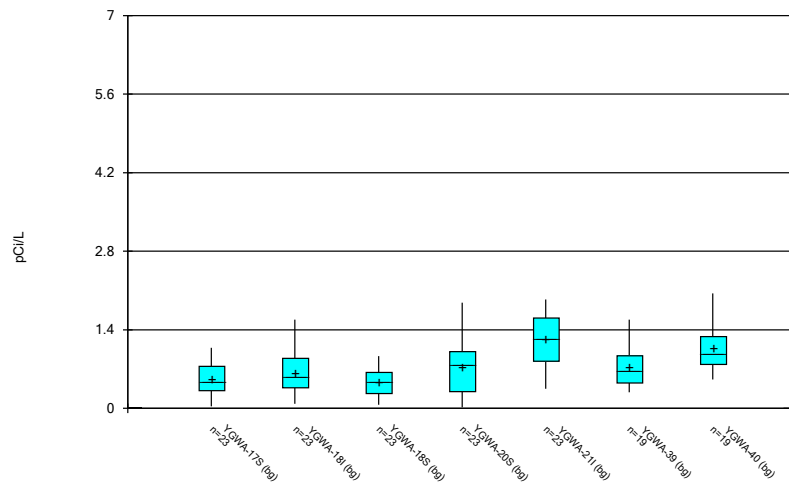
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Box & Whiskers Plot



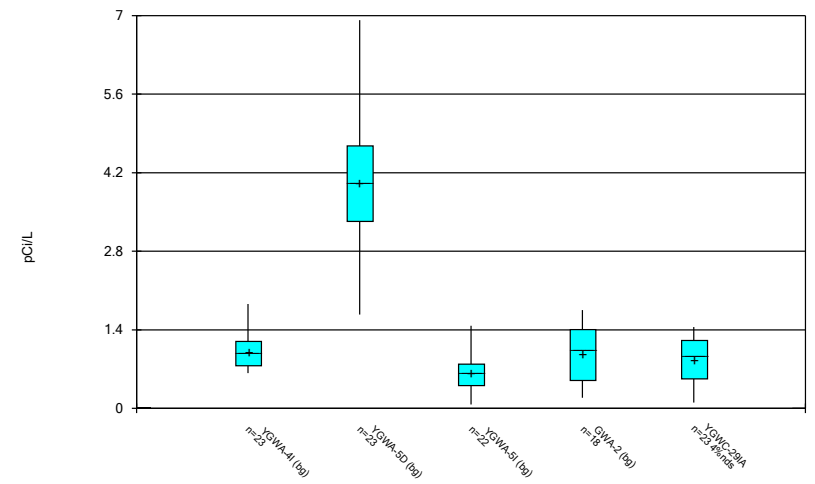
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Box & Whiskers Plot



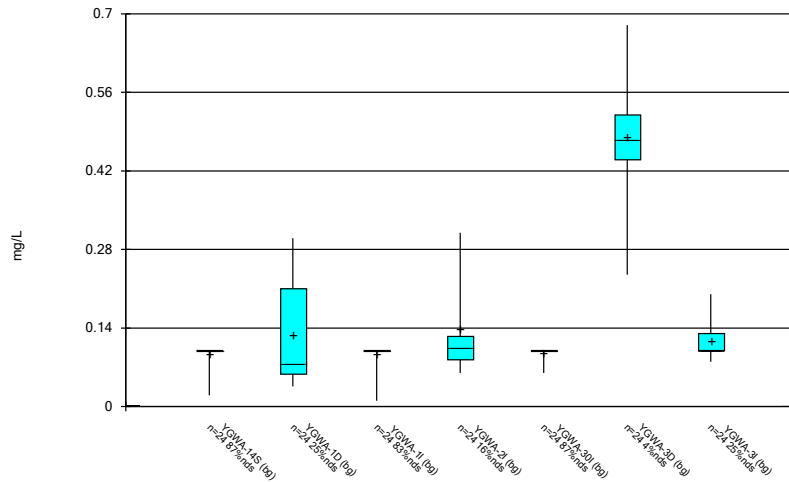
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Box & Whiskers Plot



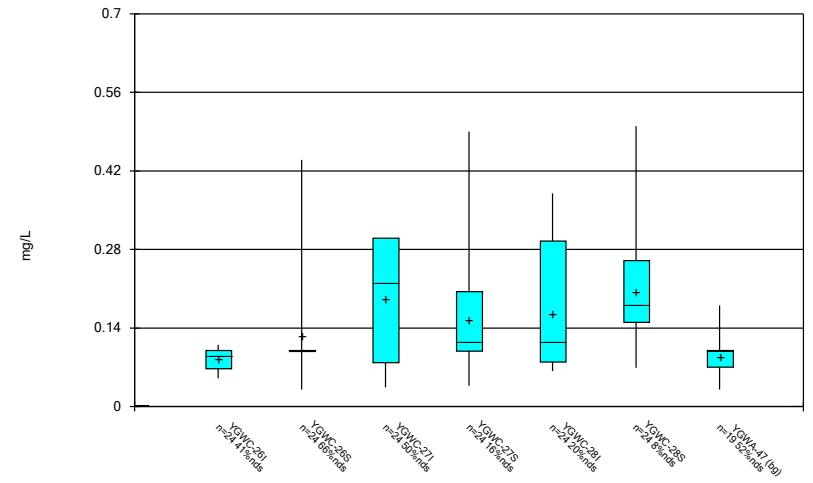
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Box & Whiskers Plot



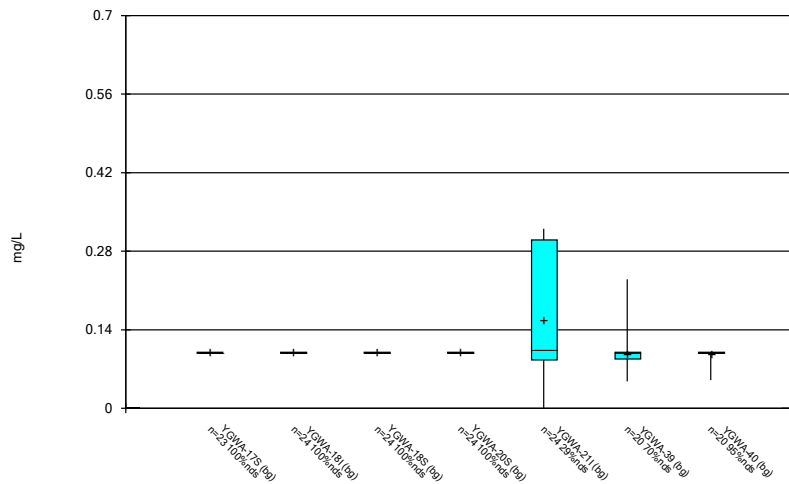
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



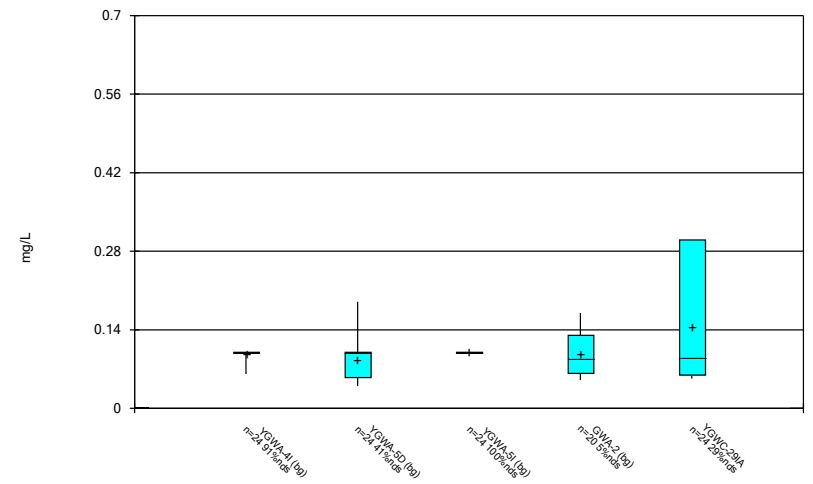
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Box & Whiskers Plot



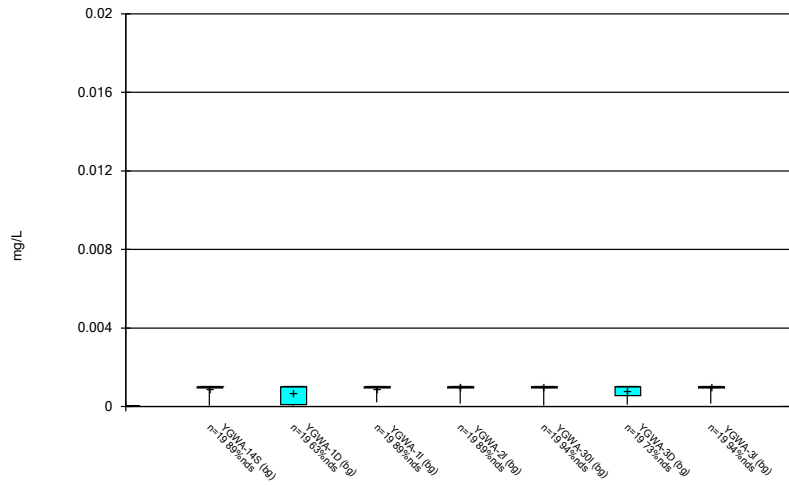
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Box & Whiskers Plot



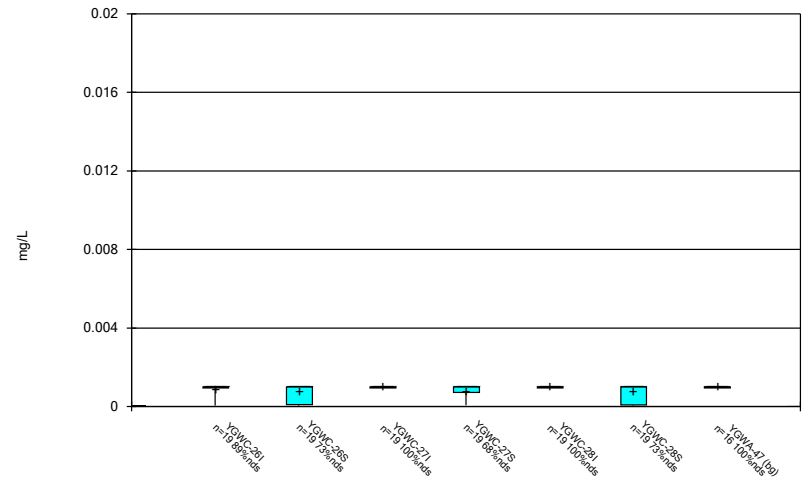
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Box & Whiskers Plot



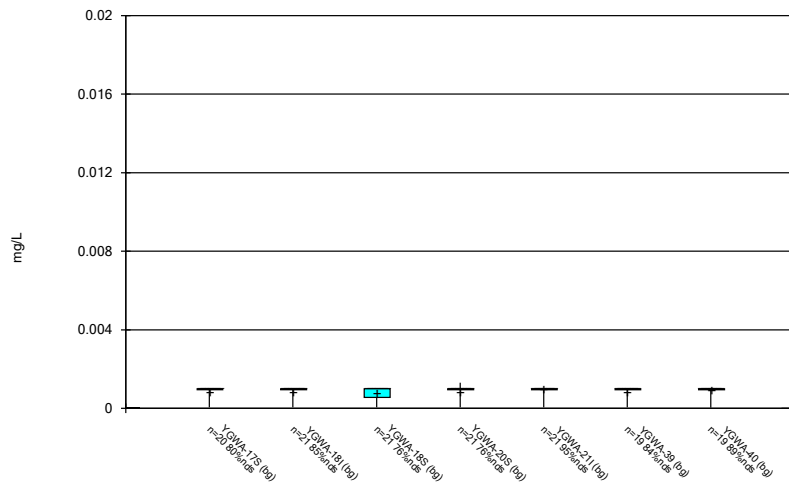
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Box & Whiskers Plot



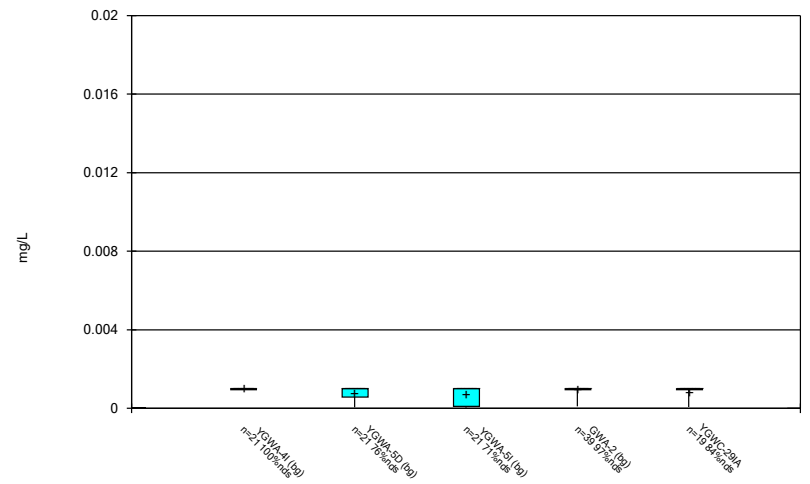
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Box & Whiskers Plot



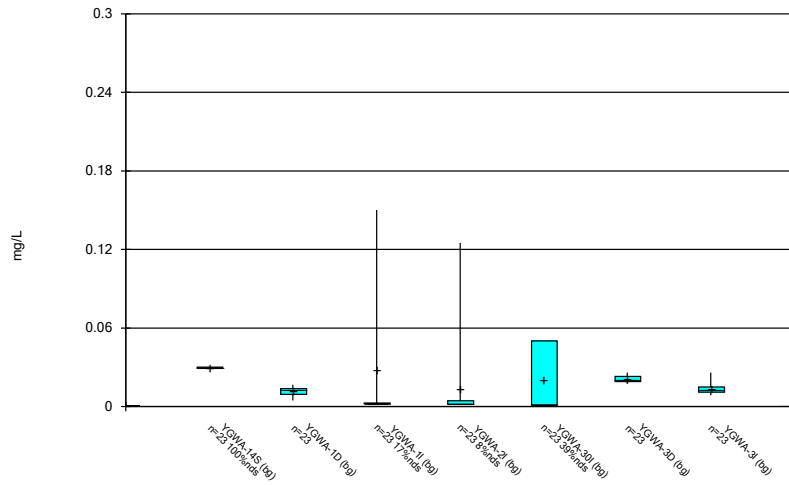
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Box & Whiskers Plot



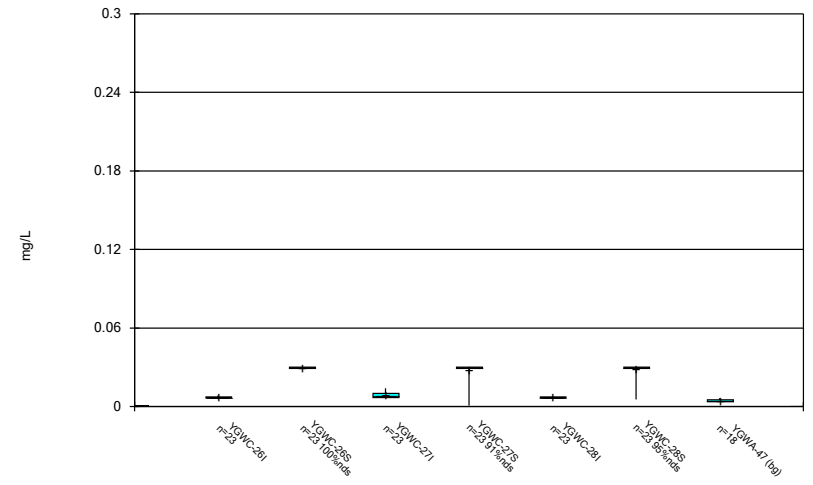
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Box & Whiskers Plot



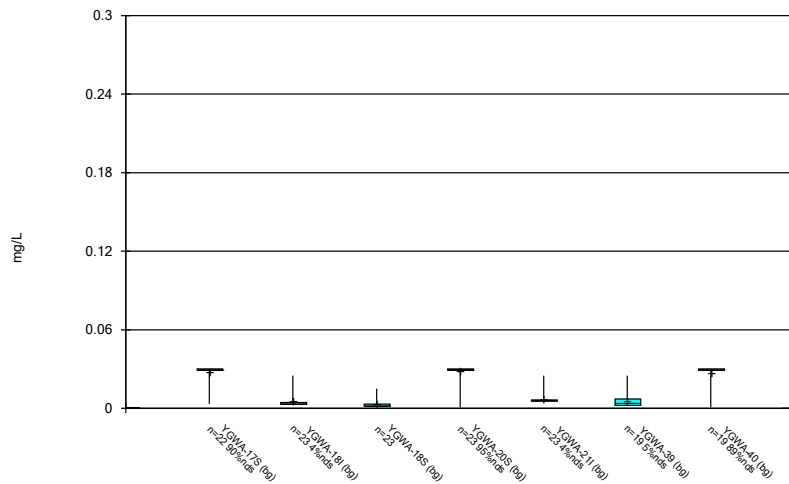
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Box & Whiskers Plot



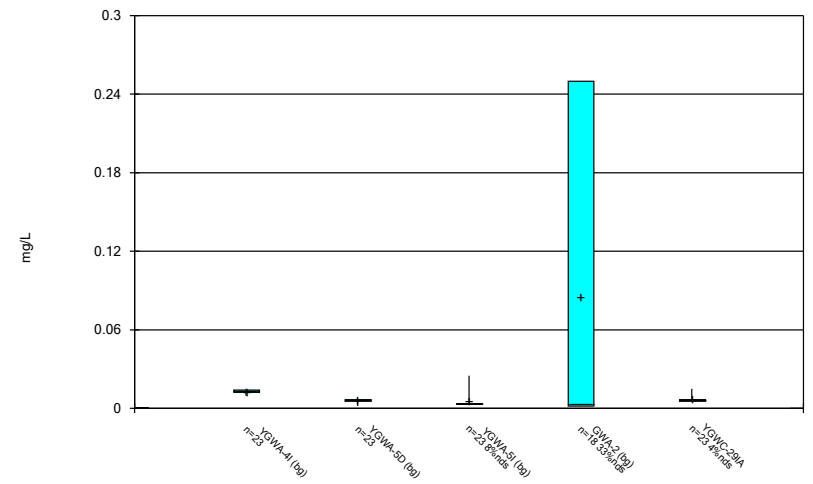
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Box & Whiskers Plot



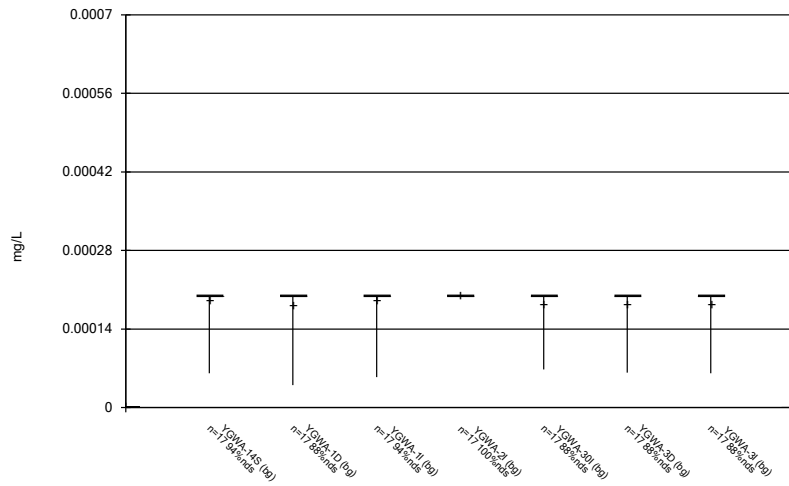
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Box & Whiskers Plot



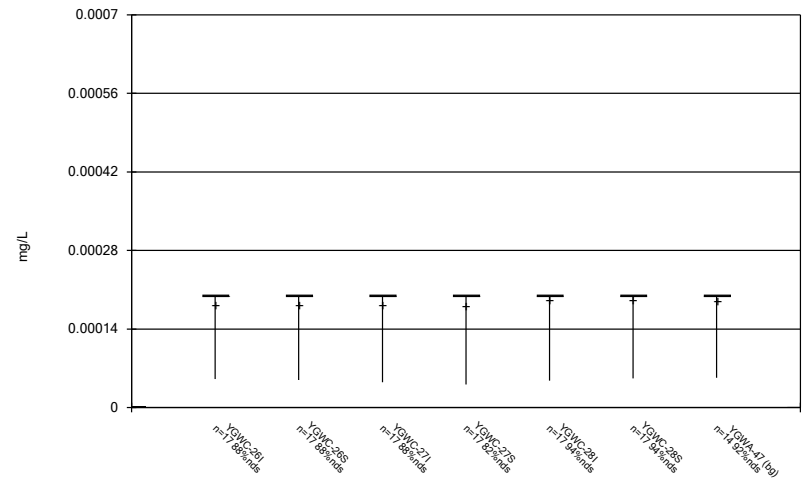
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### Box & Whiskers Plot



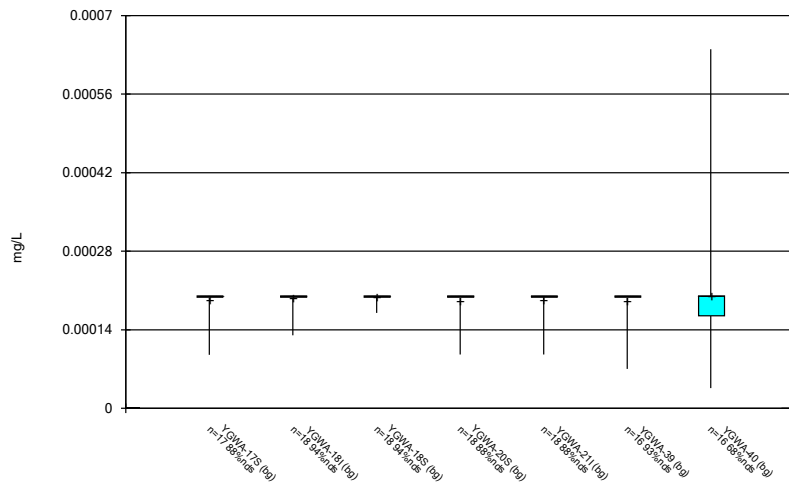
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Box & Whiskers Plot



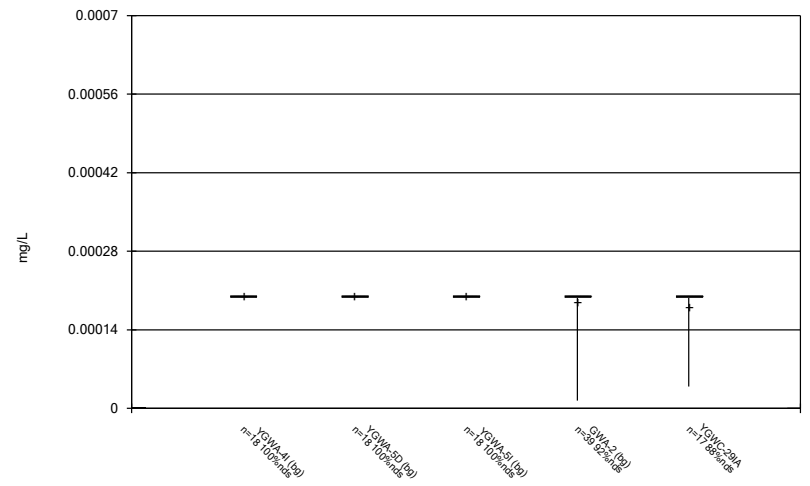
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Box & Whiskers Plot



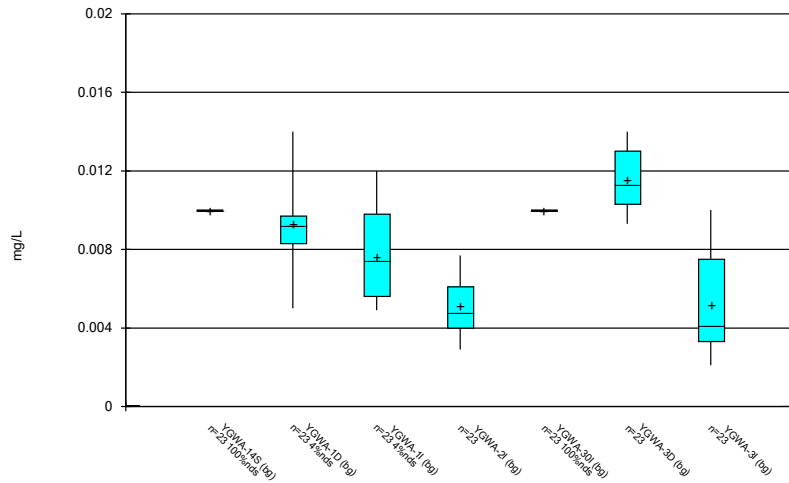
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Box & Whiskers Plot



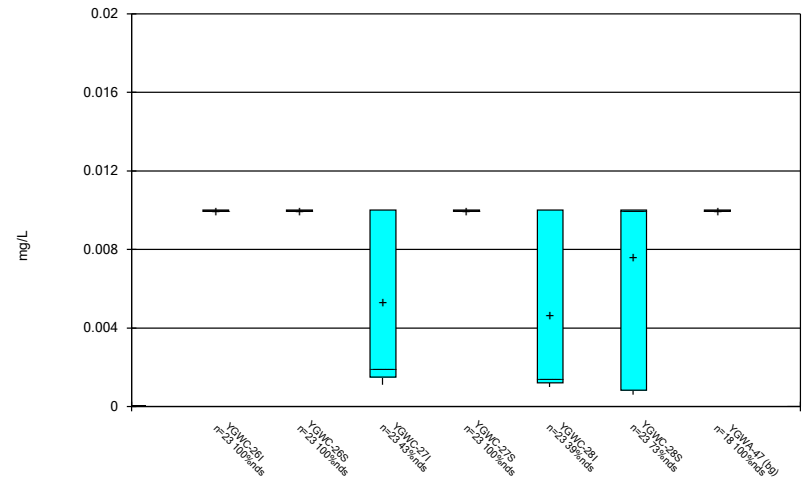
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Box & Whiskers Plot



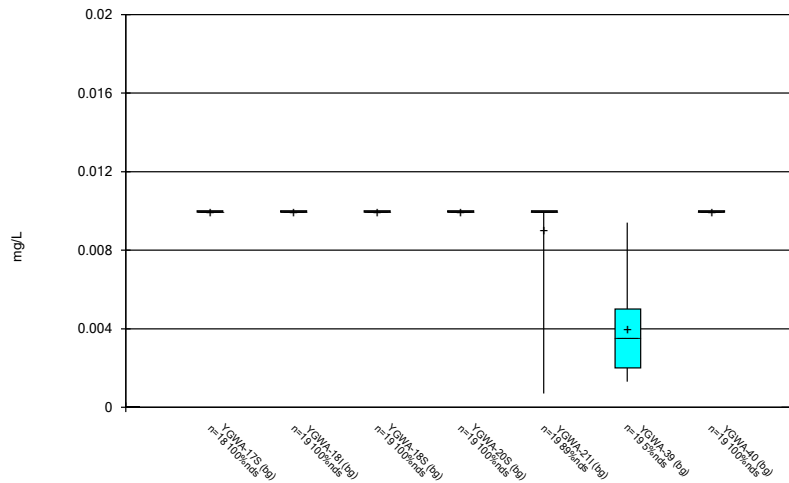
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



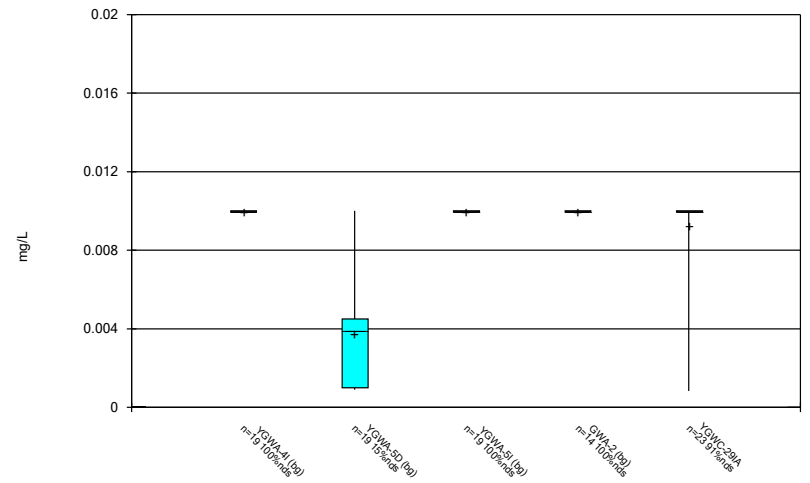
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Box & Whiskers Plot



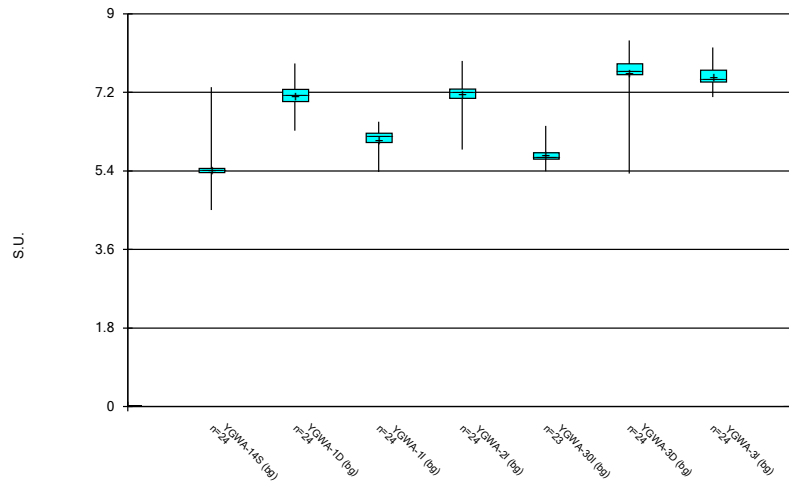
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Box & Whiskers Plot



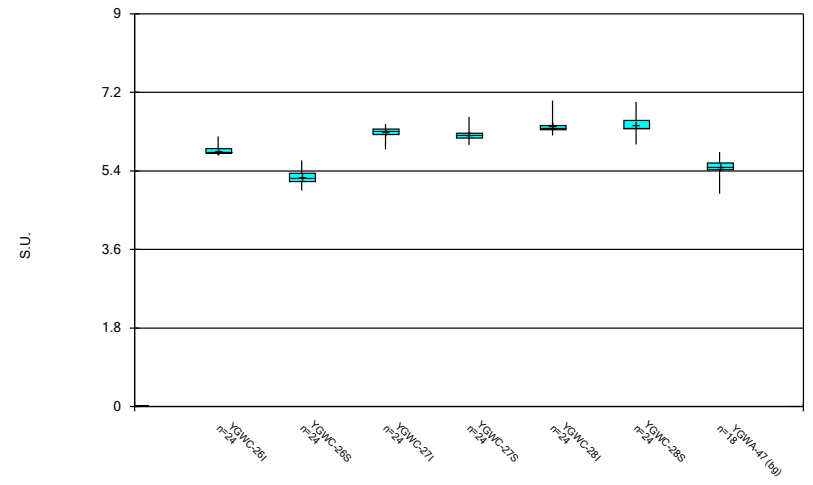
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Box & Whiskers Plot



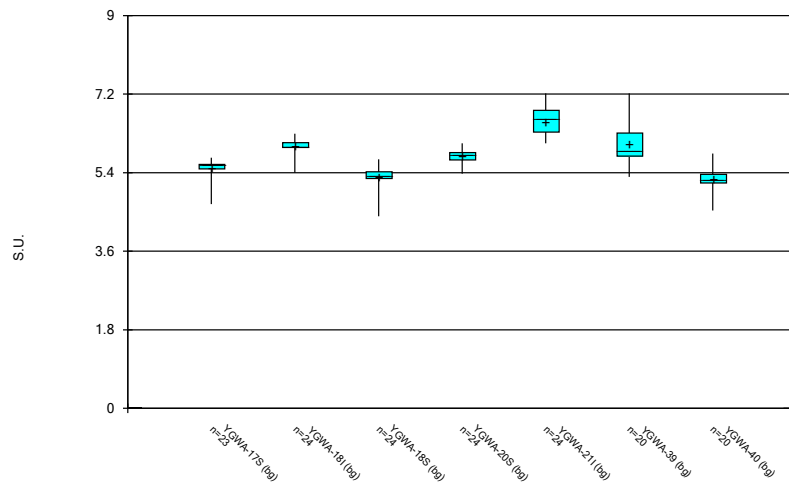
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Box & Whiskers Plot



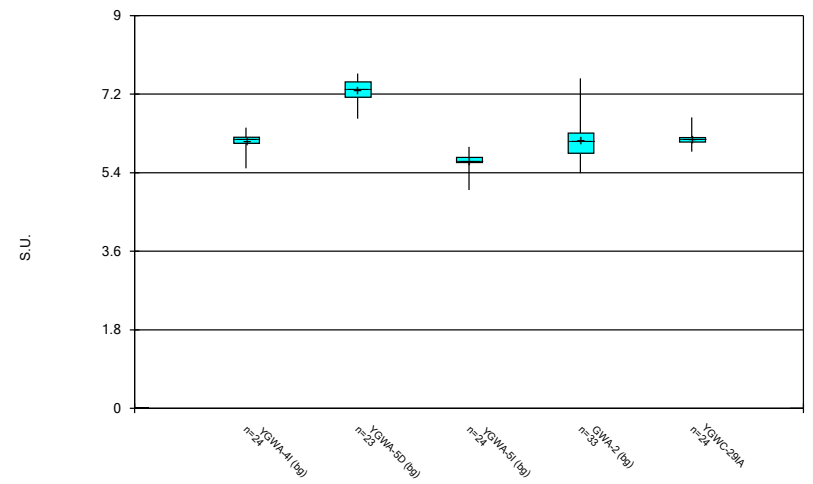
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Box & Whiskers Plot



Constituent: pH Analysis Run 4/27/2023 10:55 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

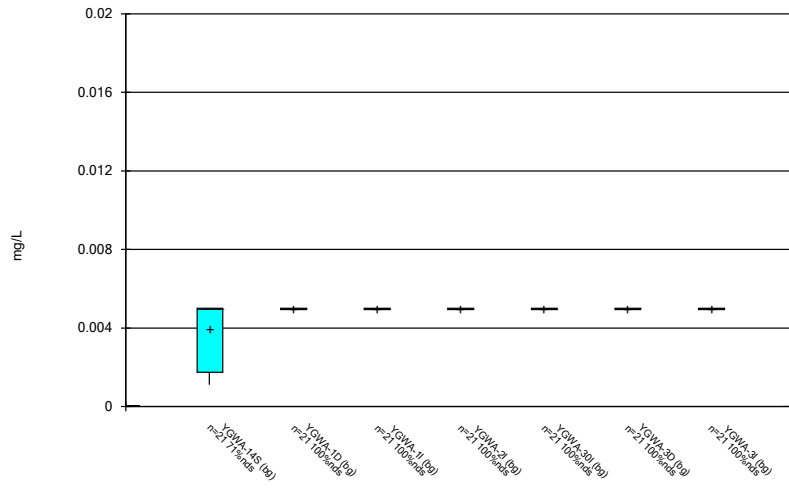
Box & Whiskers Plot



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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

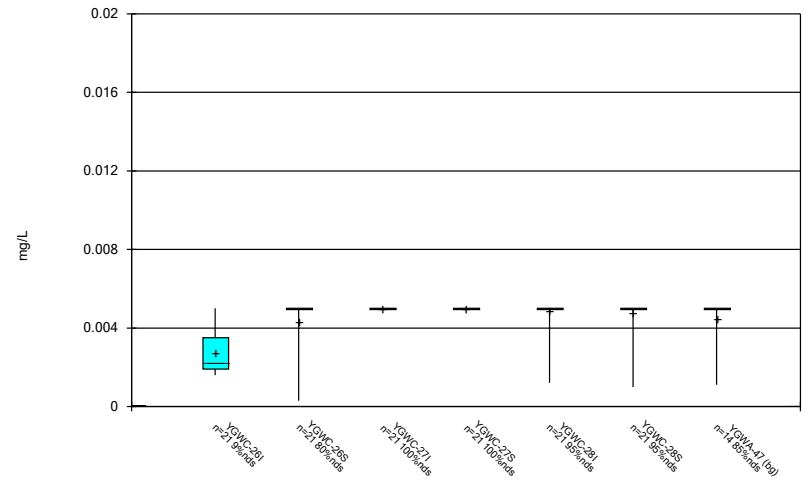


Box & Whiskers Plot



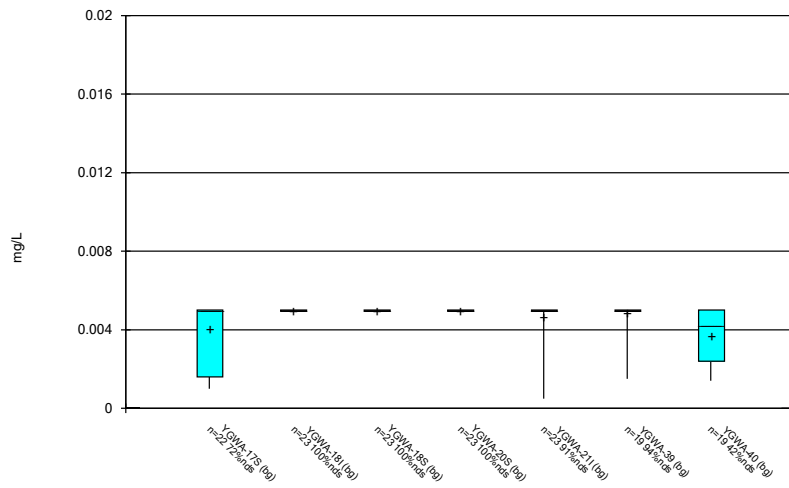
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Box & Whiskers Plot



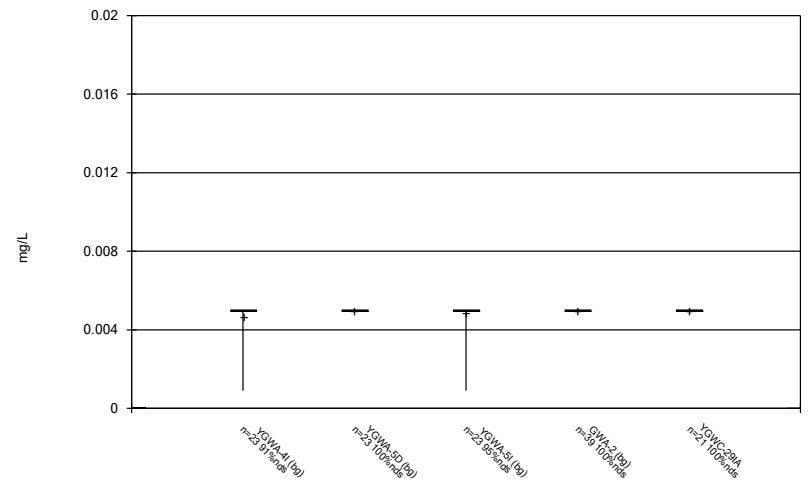
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Box & Whiskers Plot



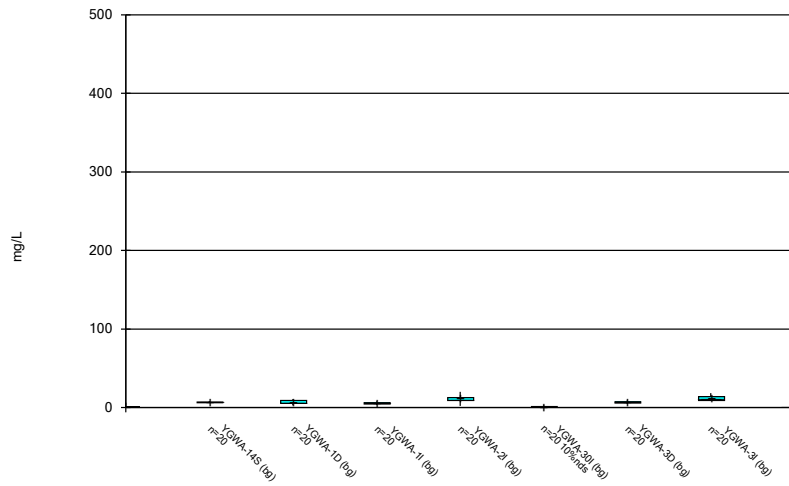
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Box & Whiskers Plot



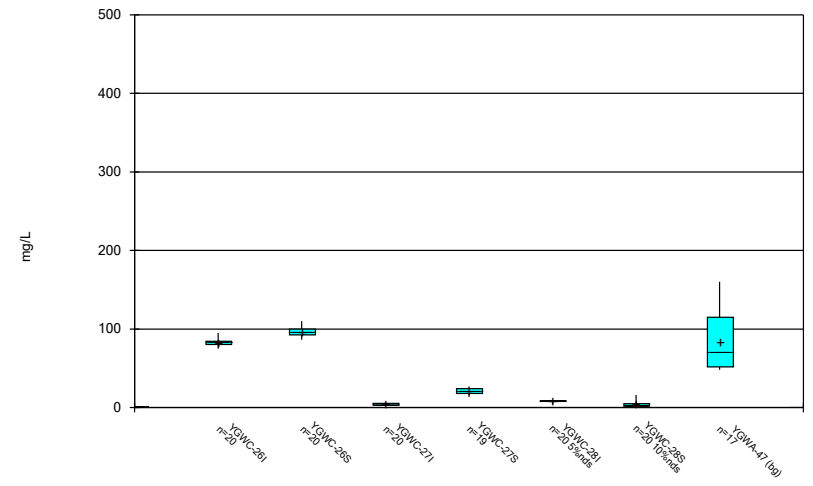
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### Box & Whiskers Plot



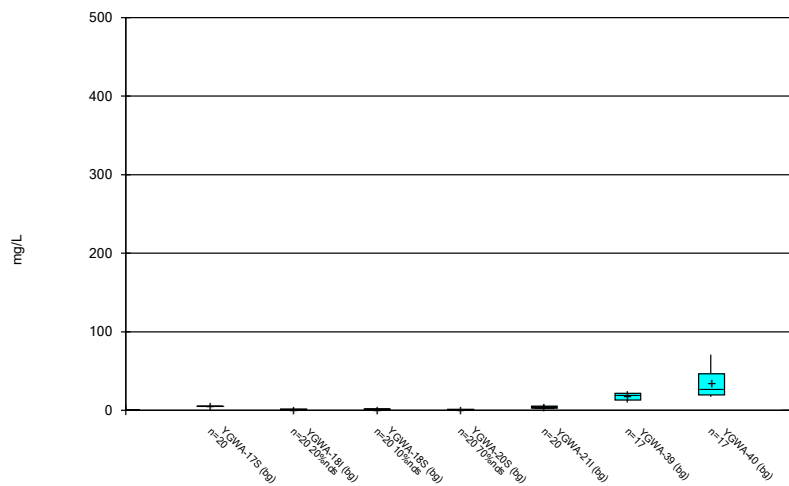
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### Box & Whiskers Plot



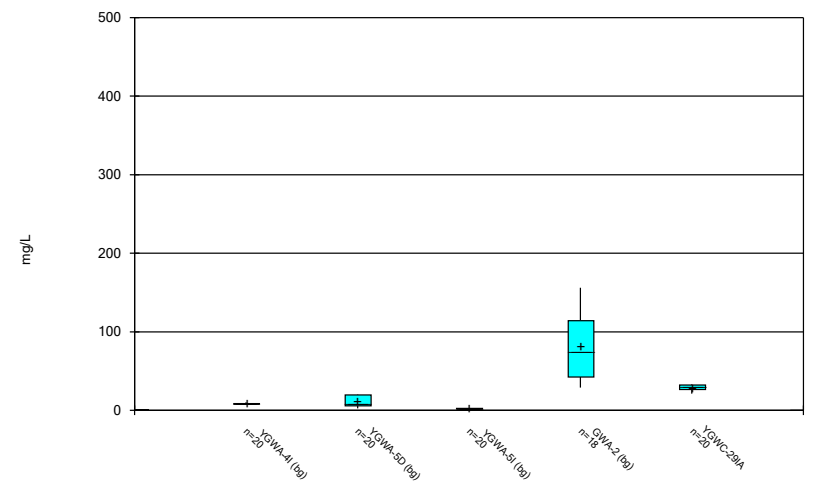
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Box & Whiskers Plot



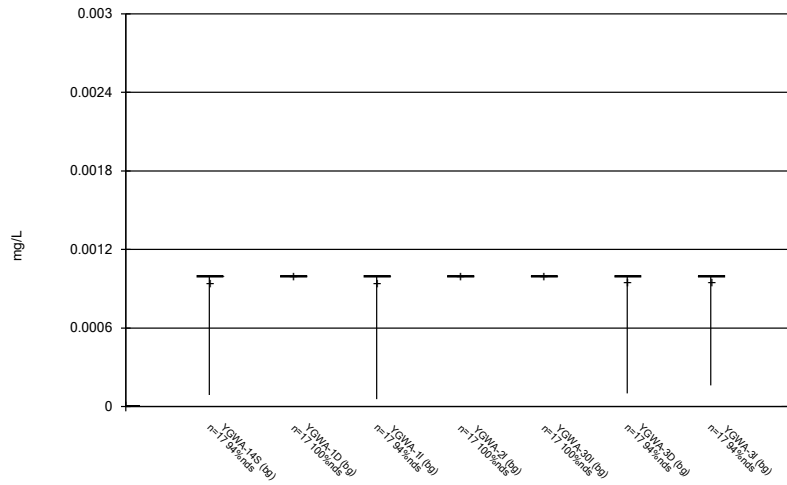
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### Box & Whiskers Plot



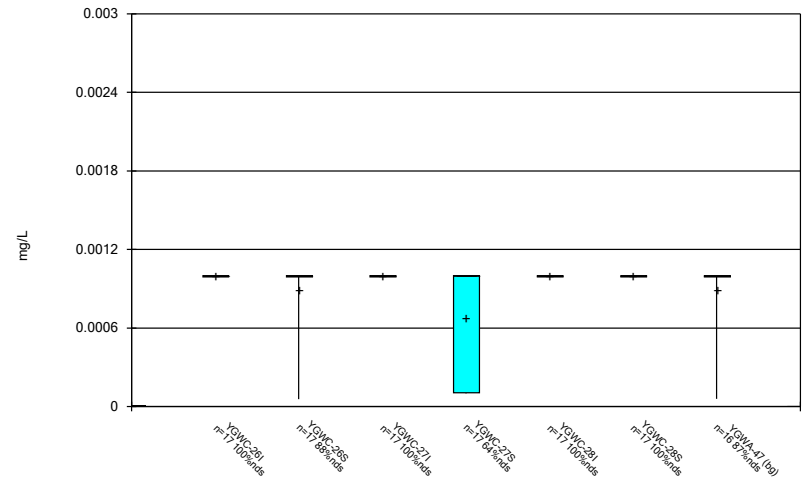
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Box & Whiskers Plot



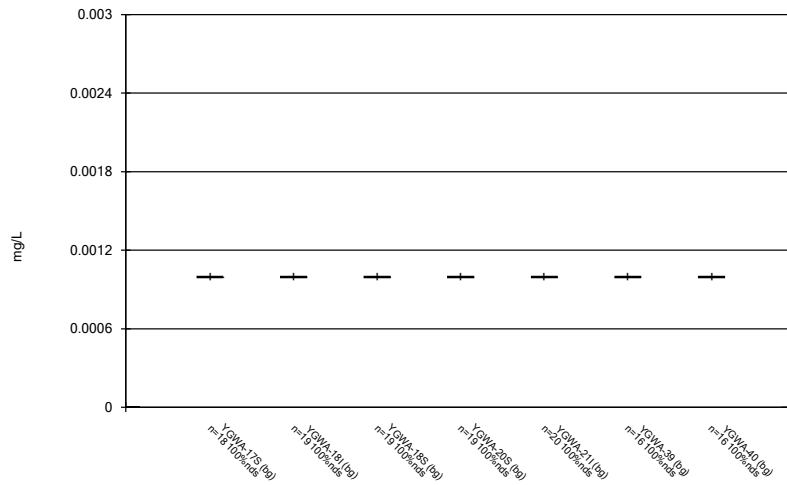
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Box & Whiskers Plot



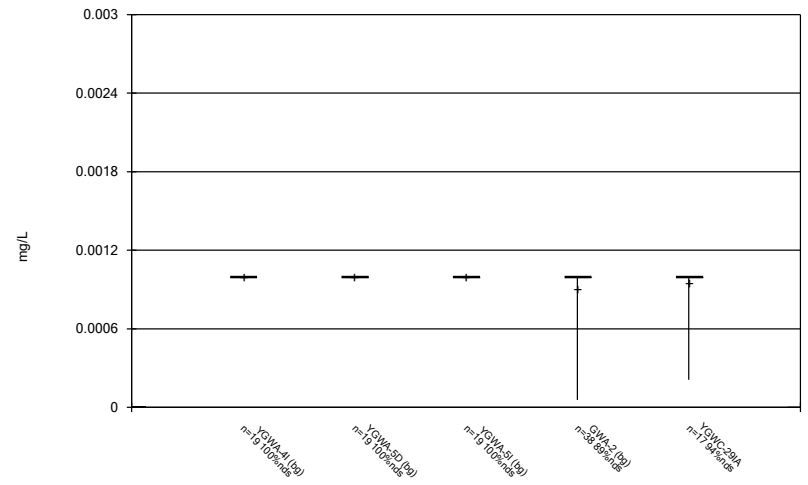
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Box & Whiskers Plot



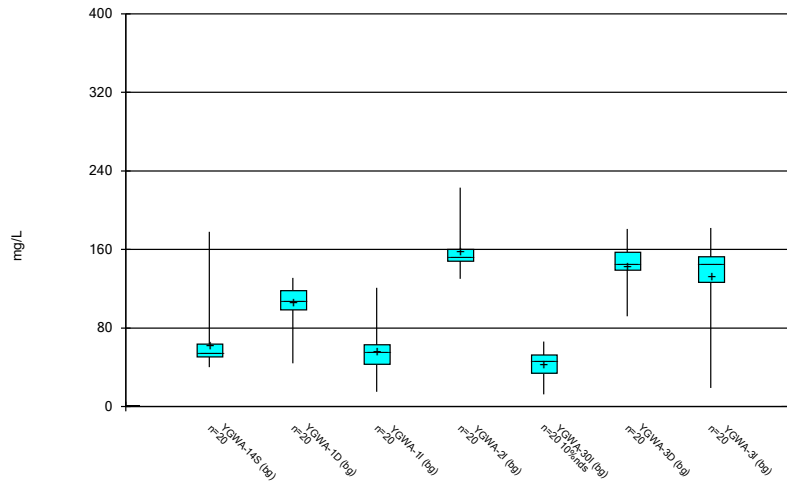
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Box & Whiskers Plot



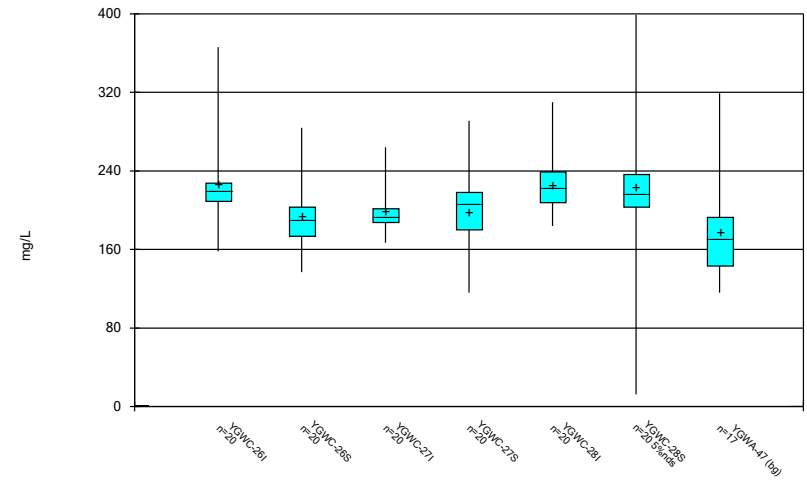
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



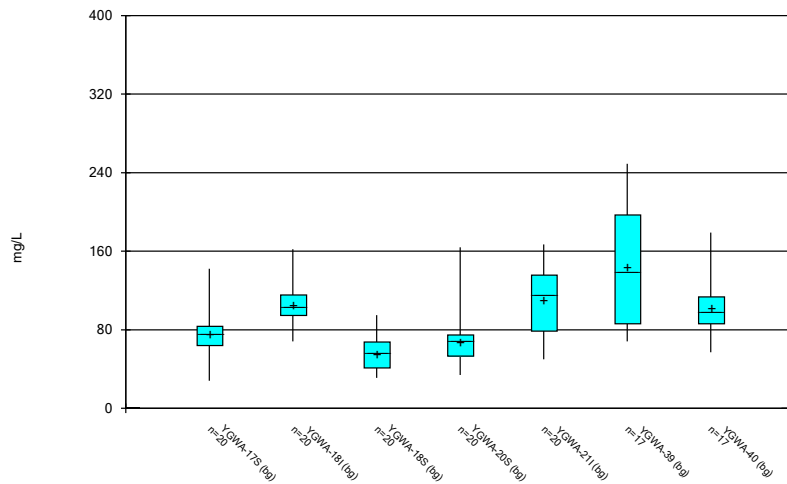
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



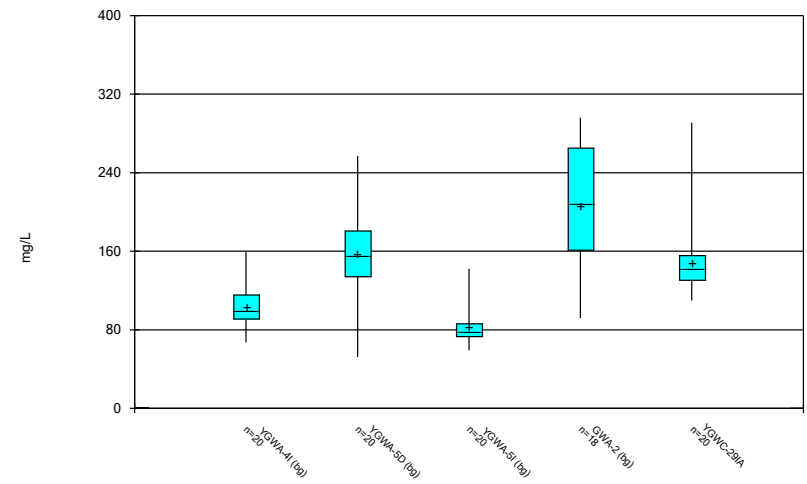
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/27/2023 10:56 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 4/27/2023 10:56 AM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE C.

# Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/27/2023, 10:58 AM

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	GWA-2 Cobalt (mg/L)	YGWC-261 Combined Radium 226 + 228 (pCi/L)	YGWA-47 pH (S.U.)	YGWC-27S Sulfate (mg/L)
6/8/2016	6.68 (o)			
4/2/2018		6.3 (o)		
8/26/2020	0.2 (O)			
9/22/2020	0.16 (O)			
3/2/2021	0.21 (O)			
3/3/2021				451 (o)
8/20/2021	0.074 (O)			
2/8/2022	0.072 (O)			
8/30/2022	0.075 (O)			

FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:20 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Obsrv.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/9/2023	0.75	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/9/2023	0.74	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/9/2023	2.2	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/9/2023	1	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/9/2023	1.8	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/9/2023	2.3	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29IA	0.16	n/a	2/8/2023	0.9	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	2/9/2023	16.6	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	2/9/2023	15.1	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	2/9/2023	13.9	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	2/9/2023	18.1	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	222.3	n/a	2/9/2023	366	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	222.3	n/a	2/9/2023	226	Yes	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2



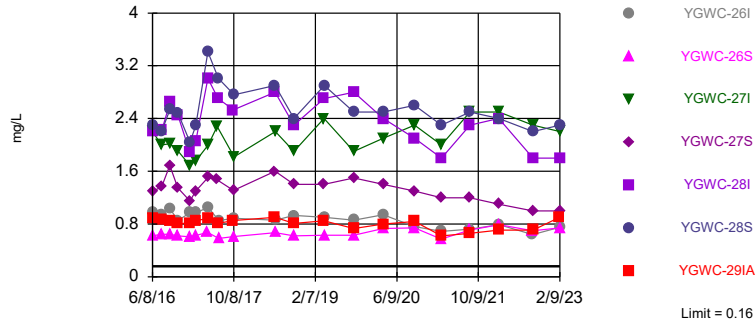
# Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:20 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/9/2023	0.75	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/9/2023	0.74	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/9/2023	2.2	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/9/2023	1	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/9/2023	1.8	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/9/2023	2.3	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29IA	0.16	n/a	2/8/2023	0.9	Yes	369	n/a	n/a	49.86	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	2/9/2023	15.8	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/9/2023	10.7	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/9/2023	26.9	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/9/2023	20.1	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/9/2023	27.7	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/9/2023	33.1	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29IA	37	n/a	2/8/2023	11.9	No	369	n/a	n/a	0.813	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	12	n/a	2/9/2023	16.6	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12	n/a	2/9/2023	15.1	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12	n/a	2/9/2023	13.9	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12	n/a	2/9/2023	11.5	No	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	12	n/a	2/9/2023	11.5	No	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12	n/a	2/9/2023	18.1	Yes	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29IA	12	n/a	2/8/2023	10.4	No	369	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/9/2023	0.088J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/9/2023	0.07J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/9/2023	0.1	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/9/2023	0.12	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/9/2023	0.14	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/9/2023	0.18	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29IA	0.68	n/a	2/8/2023	0.092J	No	438	n/a	n/a	64.16	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/9/2023	5.76	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/9/2023	5.64	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/9/2023	6.48	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/9/2023	6.64	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/9/2023	6.7	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/9/2023	6.87	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29IA	8.39	4.4	2/8/2023	6.67	No	448	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/9/2023	84.2	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/9/2023	89.7	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/9/2023	3.2	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/9/2023	13.7	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/9/2023	7.4	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/9/2023	16	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29IA	160	n/a	2/8/2023	23.7	No	369	n/a	n/a	5.962	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWC-26I</b>	<b>222.3</b>	<b>n/a</b>	<b>2/9/2023</b>	<b>366</b>	<b>Yes</b>	<b>369</b>	<b>10.11</b>	<b>2.582</b>	<b>0.542</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.001075</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids (mg/L)	YGWC-26S	222.3	n/a	2/9/2023	196	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	222.3	n/a	2/9/2023	189	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	222.3	n/a	2/9/2023	116	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	222.3	n/a	2/9/2023	184	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWC-28S</b>	<b>222.3</b>	<b>n/a</b>	<b>2/9/2023</b>	<b>226</b>	<b>Yes</b>	<b>369</b>	<b>10.11</b>	<b>2.582</b>	<b>0.542</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.001075</b>	<b>Param Inter 1 of 2</b>
Total Dissolved Solids (mg/L)	YGWC-29IA	222.3	n/a	2/8/2023	158	No	369	10.11	2.582	0.542	None	sqrt(x)	0.001075	Param Inter 1 of 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IA

Prediction Limit Interwell Non-parametric

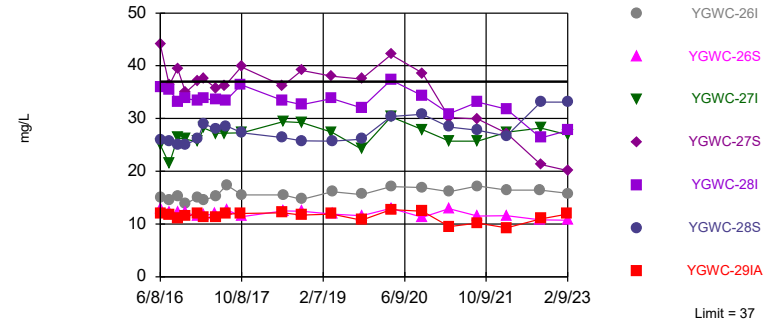


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 49.86% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 4/28/2023 6:19 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit Interwell Non-parametric

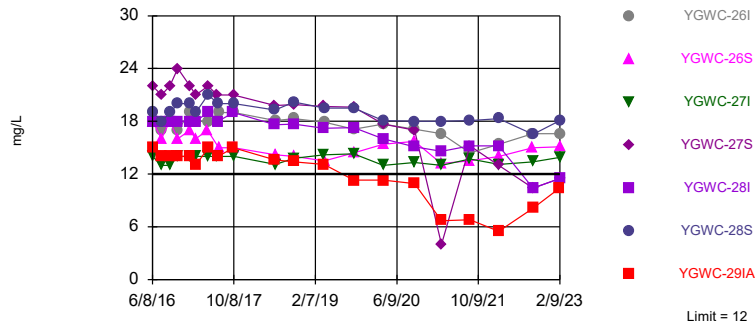


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 0.813% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 4/28/2023 6:19 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S

Prediction Limit Interwell Non-parametric



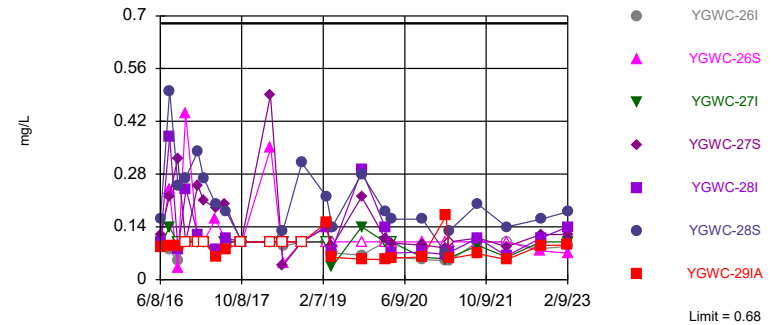
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 4/28/2023 6:19 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit Interwell Non-parametric

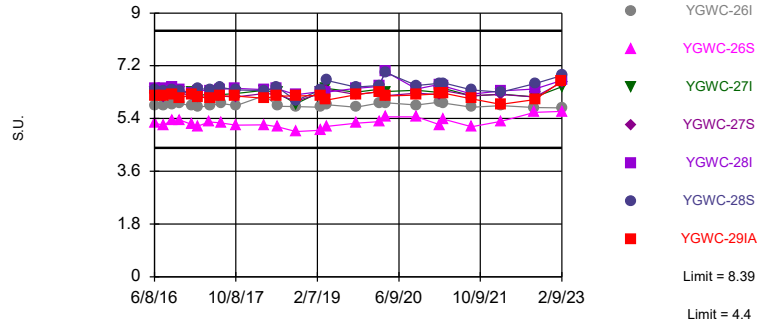


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 438 background values. 64.16% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 4/28/2023 6:19 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limits

Prediction Limit  
Interwell Non-parametric

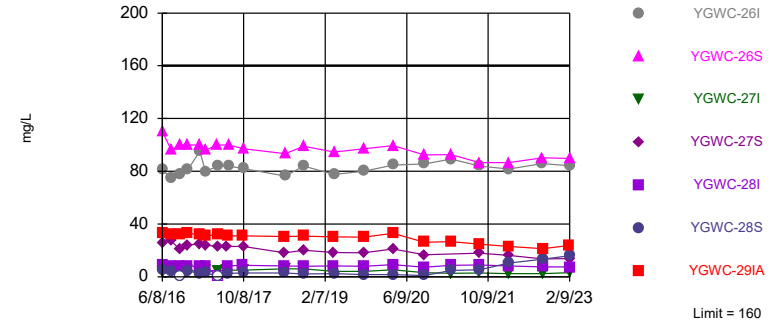


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 448 background values. Annual per-constituent alpha = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 4/28/2023 6:19 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit  
Interwell Non-parametric

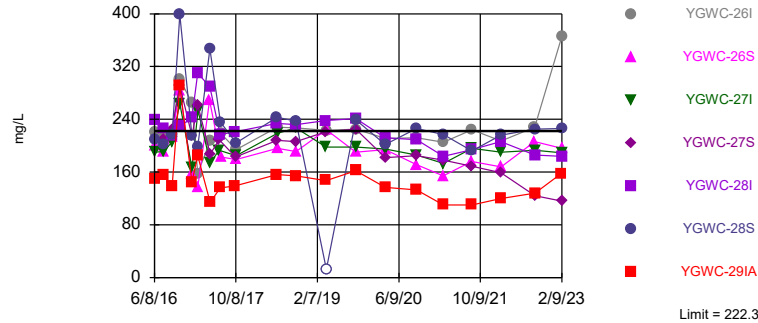


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 369 background values. 5.962% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 4/28/2023 6:19 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-28S

Prediction Limit  
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.11, Std. Dev.=2.582, n=369, 0.542% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.71, critical = 14.07. Kappa = 1.859 (c=7, w=7, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:19 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	<0.04		<0.04		<0.04				
7/26/2016		0.0055 (J)		0.0177 (J)		<0.04	0.0047 (J)	0.0052 (J)	0.0097 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	<0.04	<0.04							
9/14/2016			<0.04			0.01 (J)	<0.04	0.0071 (J)	
9/15/2016				0.0214 (J)					0.0102 (J)
9/16/2016									
9/19/2016					<0.04				
9/20/2016									
9/21/2016									
11/1/2016		0.0086 (J)	<0.04		<0.04				<0.04
11/2/2016				<0.04			<0.04	<0.04	
11/3/2016									
11/4/2016	<0.04					<0.04			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				0.0198 (J)					
1/11/2017		0.0074 (J)	<0.04						<0.04
1/12/2017						<0.04		0.0076 (J)	
1/13/2017							<0.04		
1/16/2017	<0.04				<0.04				
1/18/2017									
1/19/2017									
2/21/2017					<0.04				
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017			<0.04						
3/2/2017	<0.04	0.008 (J)							0.0084 (J)
3/3/2017									
3/6/2017							<0.04		
3/7/2017						<0.04		0.0089 (J)	
3/8/2017				0.0189 (J)					
4/26/2017			<0.04	0.0161 (J)	<0.04				<0.04
4/27/2017	<0.04	0.0066 (J)							
4/28/2017									
5/1/2017							<0.04	0.0061 (J)	
5/2/2017						<0.04			

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	0.006 (J)	0.0087 (J)				<0.04		0.0079 (J)	
6/28/2017			<0.04						<0.04
6/29/2017							<0.04		
6/30/2017				0.0173 (J)	<0.04				
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	0.0071 (J)	0.0072 (J)				<0.04		0.0094 (J)	
10/4/2017			<0.04		<0.04				<0.04
10/5/2017				0.0173 (J)			<0.04		
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		0.0052 (J)							
6/6/2018	<0.04							0.0098 (J)	
6/7/2018						<0.04	0.0045 (J)		0.004 (J)
6/8/2018			<0.04	0.013 (J)					
6/11/2018					0.014 (J)				
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						0.0057 (J)	0.005 (J)	0.01 (J)	
10/1/2018	0.0049 (J)	0.021 (J)	<0.04	0.015 (J)					<0.04
10/2/2018					<0.04				
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.04	0.005 (J)							
3/29/2019				0.014 (J)					
4/1/2019			<0.04		<0.04				<0.04

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						0.0044 (J)	0.0055 (J)	0.0076 (J)	
6/12/2019									
9/24/2019	0.0055 (J)	0.0064 (J)				0.0049 (J)		0.01 (J)	
9/25/2019			<0.04	0.018 (J)	<0.04		<0.04		0.0054 (J)
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	0.0087 (J)			0.02 (J)					
3/19/2020		0.0085 (J)	0.0053 (J)		0.0052 (J)				0.0073 (J)
3/20/2020									
3/24/2020						0.0068 (J)		0.011 (J)	
3/25/2020							0.011 (J)		
9/22/2020						0.0053 (J)	<0.04	0.0079 (J)	
9/23/2020	<0.04	<0.04	0.0073 (J)						0.012 (J)
9/24/2020					0.0075 (J)				
9/25/2020				0.02 (J)					
3/1/2021					<0.04				
3/2/2021				0.017 (J)		0.011 (J)		0.0068 (J)	
3/3/2021	<0.04	<0.04	<0.04				0.0056 (J)		<0.04
3/4/2021									
8/19/2021	<0.04	<0.04		0.018 (J)	<0.04				<0.04
8/20/2021									
8/26/2021						<0.04	<0.04	0.009 (J)	
8/27/2021			<0.04						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04						0.01 (J)
2/10/2022				0.02 (J)		<0.04		0.011 (J)	
2/11/2022					<0.04		<0.04		
8/30/2022		<0.04				<0.04		0.0098 (J)	
8/31/2022	<0.04		<0.04	0.015 (J)	<0.04		<0.04		<0.04
9/1/2022									
2/7/2023	<0.04	<0.04						<0.04	
2/8/2023			<0.04	0.015 (J)	<0.04				<0.04
2/9/2023						<0.04	<0.04		

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
6/8/2016						2.2	0.97	1.3	0.62
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04	0.008 (J)		<0.04				
7/28/2016				<0.04					
8/1/2016						2	0.932	1.36	0.643
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	0.0079 (J)		0.0086 (J)						
9/19/2016		<0.04		<0.04	<0.04				
9/20/2016						2.02	1.04	1.69	0.644
9/21/2016									
11/1/2016									
11/2/2016									
11/3/2016	0.0082 (J)	<0.04	0.0077 (J)	<0.04					
11/4/2016									
11/7/2016						1.91	0.852	1.35	0.621
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04	0.0092 (J)						
1/12/2017									
1/13/2017				<0.04	<0.04				
1/16/2017									
1/18/2017						1.69	0.972		0.607
1/19/2017								1.15	
2/21/2017							0.972		0.624
2/22/2017								1.3	
2/23/2017						1.76			
2/24/2017									
3/1/2017	<0.04	<0.04							
3/2/2017			0.0095 (J)						
3/3/2017									
3/6/2017				<0.04	<0.04				
3/7/2017									
3/8/2017									
4/26/2017	0.0091 (J)	<0.04		<0.04	<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.04						

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
5/3/2017									0.676
5/5/2017									
5/8/2017						2	1.05	1.51	
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017						2.28		1.47	
7/5/2017									
7/7/2017									
7/10/2017							0.855		0.58
7/11/2017									
7/17/2017									
10/3/2017				<0.04					
10/4/2017	0.009 (J)		0.0077 (J)		<0.04				
10/5/2017		<0.04							
10/6/2017								1.31	
10/9/2017						1.82			
10/10/2017							0.887		0.612
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				0.0092 (J)					
6/6/2018						0.0049 (J)			
6/7/2018		<0.04							
6/8/2018									
6/11/2018	0.0093 (J)		0.01 (J)						
6/12/2018								1.6	
6/13/2018						2.2	0.86		0.67
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	0.0096 (J)	0.0054 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018						1.9	0.93	1.4	0.62
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						2.4		1.4	



# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
4/2/2019			0.0066 (J)	0.011 (J)			0.9		0.63
4/3/2019	0.0053 (J)	<0.04			<0.04				
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019			0.0081 (J)		<0.04		0.86		0.63
9/26/2019	0.0072 (J)	0.0062 (J)				1.9		1.5	
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020									0.73
3/20/2020						2.1	0.94	1.4	
3/24/2020	0.01 (J)	0.0054 (J)	0.0092 (J)	0.016 (J)	<0.04				
3/25/2020									
9/22/2020									
9/23/2020	0.006 (J)	0.021 (J)	0.0066 (J)						
9/24/2020				0.013 (J)	0.0094 (J)	2.3	0.76	1.3	0.74
9/25/2020									
3/1/2021									
3/2/2021									0.57
3/3/2021	0.0094 (J)	<0.04	0.01 (J)		<0.04	2	0.69	1.2	
3/4/2021				0.0079 (J)					
8/19/2021									0.71
8/20/2021						2.5	0.72	1.2	
8/26/2021	<0.04								
8/27/2021		<0.04	0.011 (J)		<0.04				
9/1/2021				<0.04					
9/3/2021									
2/8/2022								1.1	
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04				
2/10/2022						2.5	0.79		0.79
2/11/2022									
8/30/2022	0.014 (J)	<0.04	0.013 (J)	0.012 (J)					
8/31/2022					<0.04		0.64		0.7
9/1/2022						2.3		1	
2/7/2023	<0.04	<0.04	0.014 (J)	<0.04	<0.04				
2/8/2023									
2/9/2023						2.2	0.75	1	0.74

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	0.88	2.2	2.3					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	0.872	2.22	2.21					
8/30/2016				0.0166 (J)				
8/31/2016					0.0315 (J)			
9/13/2016								
9/14/2016						<0.04		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	0.853	2.65	2.54					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.04		
11/7/2016	0.815		2.49					
11/8/2016		2.44						
11/14/2016				0.0166 (J)				
11/28/2016					0.0095 (J)			
12/15/2016						0.0107 (J)		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						<0.04		
1/18/2017		1.88	2.04					
1/19/2017	0.803							
2/21/2017			2.29					
2/22/2017	0.855	2.05			<0.04			
2/23/2017								
2/24/2017				0.0145 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.04		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						<0.04		
5/1/2017								
5/2/2017								

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017		3.01	3.41					
5/8/2017	0.884			0.0141 (J)	0.0084 (J)			
5/26/2017						<0.04		
6/27/2017								
6/28/2017						<0.04		
6/29/2017								
6/30/2017								
7/5/2017	0.811	2.7						
7/7/2017			3.01					
7/10/2017								
7/11/2017				0.0131 (J)				
7/17/2017					0.0092 (J)			
10/3/2017						<0.04		
10/4/2017								
10/5/2017	0.851	2.53						
10/6/2017								
10/9/2017			2.76					
10/10/2017				0.0124 (J)				
10/11/2017							0.0135 (J)	
10/12/2017								0.0401
10/16/2017					<0.04			
11/20/2017							0.0251 (J)	0.156
1/10/2018								0.15
1/11/2018							0.0255 (J)	
2/19/2018					<0.04			0.146
2/20/2018							<0.04	
4/2/2018				0.013 (J)				
4/3/2018							0.033 (J)	0.12
6/5/2018								
6/6/2018								
6/7/2018						<0.04		
6/8/2018								
6/11/2018	0.9							
6/12/2018		2.8	2.9					
6/13/2018								
6/28/2018							0.053	0.16
8/6/2018					<0.04			
8/7/2018							0.024 (J)	0.12
9/19/2018				0.012 (J)				
9/24/2018							0.028 (J)	0.099
9/25/2018								
9/26/2018								
10/1/2018						<0.04		
10/2/2018	0.81							
10/3/2018		2.3	2.4					
2/25/2019					<0.04			
3/26/2019								0.096
3/27/2019				0.013 (J)			0.017 (J)	
3/28/2019								
3/29/2019						0.0065 (J)		
4/1/2019	0.85	2.7						

# Prediction Limit

Constituent: Boron (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019			2.9					
4/3/2019								
6/12/2019					<0.04			
9/24/2019						0.0076 (J)		
9/25/2019	0.73							
9/26/2019		2.8	2.5					
10/8/2019				0.012 (J)	<0.04			
10/9/2019							0.017 (J)	0.079
3/17/2020				0.023 (J)	0.0051 (J)			
3/18/2020								
3/19/2020		2.4	2.5			0.0073 (J)		
3/20/2020	0.8							
3/24/2020								0.088 (J)
3/25/2020							0.043 (J)	
9/22/2020				0.0076 (J)	0.0079 (J)			
9/23/2020						<0.04		
9/24/2020	0.84	2.1	2.6				0.037 (J)	0.087 (J)
9/25/2020								
3/1/2021				0.013 (J)				
3/2/2021					<0.04			
3/3/2021	0.62	1.8	2.3			<0.04		
3/4/2021							0.033 (J)	0.078
8/19/2021				0.011 (J)				
8/20/2021	0.66	2.3	2.5		<0.04			
8/26/2021							0.095	
8/27/2021						<0.04		
9/1/2021								
9/3/2021								0.077
2/8/2022	0.71	2.4	2.4	0.015 (J)	<0.04		0.13	0.074
2/9/2022						<0.04		
2/10/2022								
2/11/2022								
8/30/2022					<0.04	<0.04		
8/31/2022				0.0091 (J)			0.14	0.062
9/1/2022	0.71	1.8	2.2					
2/7/2023					<0.04	<0.04	0.13	
2/8/2023	0.9			0.011 (J)				0.057
2/9/2023		1.8	2.3					

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
6/1/2016	2.5	12	21						
6/2/2016				1.3	1.3	2.4	8.8	33	28
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	2.16		20.3		1.17				
7/26/2016		11		1.24		2.12	7.69	32.3	24.5
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	2.21	11.8							
9/14/2016			19.7			2.18	8.49	31	
9/15/2016				1.17					27
9/16/2016									
9/19/2016					1.05				
9/20/2016									
9/21/2016									
11/1/2016		11	18.4		1.14				25.6
11/2/2016				1.23			7.83	30.9	
11/3/2016									
11/4/2016	2.67					2.17 (J)			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				1.24					
1/11/2017		11.2	20.3						27.5
1/12/2017						2.37		35.7	
1/13/2017							8.08		
1/16/2017	2.45				1.23				
1/18/2017									
1/19/2017									
2/21/2017					1.25				
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017			18.6						
3/2/2017	2.57	11							27.5
3/3/2017									
3/6/2017							8.64		
3/7/2017						2.34		32.7	
3/8/2017				1.21					
4/26/2017			25.6	1.14	1.03				30.4
4/27/2017	2.38	11.1							
4/28/2017									
5/1/2017							13.4	37	
5/2/2017						2.17			

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	2.36	13.8				2.13		36.5	
6/28/2017			23.9						29.8
6/29/2017							8.81		
6/30/2017				1.24	1.13				
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	2.21	14				2.15		30.9	
10/4/2017			22.1		1.09				29.7
10/5/2017				1.11			9.29		
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		15.2 (J)							
6/6/2018	2.3							26.2	
6/7/2018						2.3	8.2		29.1
6/8/2018			21.9 (J)	1.1					
6/11/2018					1.1				
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						2.3	9.5 (J)	25.8	
10/1/2018	1.8	15.1	19.7	0.99					26.9
10/2/2018					1.1				
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	2.2	13.3 (J)							
3/29/2019				1.1					
4/1/2019			20.4 (J)		1.3				30.1

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						2.8	8.4	24.7 (J)	
6/12/2019									
9/24/2019	2.3	15.8				2.5		25.8	
9/25/2019			22.4	1.1	1.1		9.5		29.5
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	2.1			1.1					
3/19/2020		15	21.9		1.2				31.5
3/20/2020									
3/24/2020						2.5		26.1	
3/25/2020							10.5		
9/22/2020						2.6	9.6	27.2	
9/23/2020	1.8	14.1	23.6						28.6
9/24/2020					1.1				
9/25/2020				1.3					
3/1/2021					1.2				
3/2/2021				1.2		2.6		1.6	
3/3/2021	1.8	14.1	20.6				7.7		29.8
3/4/2021									
8/19/2021	2	14.2		1.2	1.2				28.1
8/20/2021									
8/26/2021						2.5	7.6	25.2	
8/27/2021			24.7						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	2.1	14.9	23.7						30.3
2/10/2022				1.3		2.5		24.8	
2/11/2022					1.5		7.5		
8/30/2022		14.9				2.5		24.8	
8/31/2022	1.9		23.5	1.3	1.3		8.9		28.7
9/1/2022									
2/7/2023	2.2	15						26.6	
2/8/2023			23.3	1.5	1.3				28.9
2/9/2023						2.8	9.6		

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			2.2	3.7	2.3				
6/8/2016						25	15	44	13
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2		2.08				
7/28/2016				3.15					
8/1/2016						21.4	14.5	36.3	12.2
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.5		1.97						
9/19/2016		4.76		3.17	1.97				
9/20/2016						26.3	15.3	39.5	12.2
9/21/2016									
11/1/2016									
11/2/2016					2.13				
11/3/2016	1.31	5.25	1.99	3.4					
11/4/2016									
11/7/2016						26.1	13.8	34.9	12.1
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74	2.28						
1/12/2017									
1/13/2017				4.98	2.45				
1/16/2017									
1/18/2017						25.6	15.1		11.5
1/19/2017								37	
2/21/2017							14.6		11.7
2/22/2017								37.6	
2/23/2017						28.2			
2/24/2017									
3/1/2017	1.26	5.37							
3/2/2017			2.15						
3/3/2017									
3/6/2017				6.28	2.48				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28		6.65	2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			1.95						



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
5/3/2017									11.9
5/5/2017									
5/8/2017						27.2	15.2	35.7	
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							
6/29/2017			2.02	6.04	2.54				
6/30/2017						27.2		36.2	
7/5/2017									
7/7/2017									
7/10/2017							17.4		12.7
7/11/2017									
7/17/2017									
10/3/2017				8.28					
10/4/2017	1.1		2.03		2.25				
10/5/2017		5.28							
10/6/2017								39.8	
10/9/2017						27.3			
10/10/2017							15.5		11.4
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				9.1					
6/6/2018					2.3				
6/7/2018		4.8							
6/8/2018									
6/11/2018	1.4		2.1						
6/12/2018								36.2	
6/13/2018						29.4	15.5		12.5
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1	4.6	2.1	10.4 (J)	2.3				
9/26/2018									
10/1/2018									
10/2/2018						29.2	14.7	39.1	12.4 (J)
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						27.4		38	

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
4/2/2019			2.5	8.8			16.1 (J)		11.9 (J)
4/3/2019	1.2	5.3			2.9				
6/12/2019									
9/24/2019				7.7					
9/25/2019			2.6		2.4		15.6		11.6
9/26/2019	1.1	4.9				24.2		37.5	
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020									13
3/20/2020						30.3	17.1	42.1	
3/24/2020	1	5.3	2.7	6	2.6				
3/25/2020									
9/22/2020									
9/23/2020	0.91 (J)	5.2	2.6						
9/24/2020				7.8	2.6	27.9	16.9	38.6	11.3
9/25/2020									
3/1/2021									
3/2/2021									12.9
3/3/2021	0.96 (J)	5.2	2.5		2.4	25.7	16.1	30.2	
3/4/2021				8.7					
8/19/2021									11.5
8/20/2021						25.7	17.2	29.9	
8/26/2021	0.98 (J)								
8/27/2021		5.1	2.7		2.4				
9/1/2021				9.5					
9/3/2021									
2/8/2022								27.2	
2/9/2022	0.87 (J)	5.1	2.8	9.8	2.3				
2/10/2022						27.4	16.4		11.6
2/11/2022									
8/30/2022	0.77 (J)	5.7	3	7.3					
8/31/2022					2.4		16.4		10.8
9/1/2022						28.2		21.3	
2/7/2023	0.79 (J)	5.5	2.9	7.5	2.4				
2/8/2023									
2/9/2023						26.9	15.8	20.1	10.7



# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017		33.5	28.1					
5/8/2017	11.2			14.6	14.2			
5/26/2017						26.2		
6/27/2017								
6/28/2017						26.1		
6/29/2017								
6/30/2017								
7/5/2017	11.9	33.4						
7/7/2017			28.6					
7/10/2017								
7/11/2017				14.3				
7/17/2017					14.1			
10/3/2017						26.7		
10/4/2017								
10/5/2017	12	36.4						
10/6/2017								
10/9/2017			27.3					
10/10/2017				12.1				
10/11/2017							2.74	
10/12/2017								2.9
10/16/2017					13.6			
11/20/2017							1.81	10.4
1/10/2018								10.2
1/11/2018							1.54	
2/19/2018					<25			<25
2/20/2018							1.71	
4/2/2018				<25				
4/3/2018							1.4	6.3
6/5/2018								
6/6/2018								
6/7/2018						25		
6/8/2018								
6/11/2018	12.1							
6/12/2018		33.4	26.4					
6/13/2018								
6/28/2018							1.4	6.7
8/6/2018					11.4 (J)			
8/7/2018							1.2	6.3
9/19/2018				11.1 (J)				
9/24/2018							1.1	5.7
9/25/2018								
9/26/2018								
10/1/2018						25		
10/2/2018	11.7 (J)							
10/3/2018		32.6	25.8					
2/25/2019					12.7 (J)			
3/26/2019								5.6
3/27/2019				10.8 (J)			1.5	
3/28/2019								
3/29/2019						23.5 (J)		
4/1/2019	11.9 (J)	33.8						

# Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019			25.7					
4/3/2019								
6/12/2019					18.9			
9/24/2019						26.4		
9/25/2019	10.7							
9/26/2019		32	26.1					
10/8/2019				9.7	28.3			
10/9/2019							2.4	4.9
3/17/2020				14.8	24.3			
3/18/2020								
3/19/2020		37.3	30.4			27.4		
3/20/2020	12.7							
3/24/2020								4.8
3/25/2020							2.7	
9/22/2020				10.1	31			
9/23/2020						26.3		
9/24/2020	12.4	34.3	30.8				3.7	4.4
9/25/2020								
3/1/2021				10.3				
3/2/2021					34.2			
3/3/2021	9.5	30.9	28.4			25.6		
3/4/2021							8.2	4.6
8/19/2021				9.6				
8/20/2021	10.2	33.1	27.8		26.5			
8/26/2021							14.1	
8/27/2021						22.6		
9/1/2021								
9/3/2021								5.6
2/8/2022	9.3	31.8	26.7	9.4	25.6		15.2	6
2/9/2022						23.4		
2/10/2022								
2/11/2022								
8/30/2022					23.5	25.4		
8/31/2022				9.6			16.3	6.2
9/1/2022	11	26.3	33.1					
2/7/2023					22.3	25.6	16.1	
2/8/2023	11.9			9.2				5.9
2/9/2023		27.7	33.1					

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
6/1/2016	1.6	1.3	1.3						
6/2/2016				4.1	1.9	4.3	3.7	7.2	1.4
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	1.4		1.3		1.7				
7/26/2016		1.2		4		4.4	3.6	6.6	1.6
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	1.3	1.1							
9/14/2016			1.3			3.8	3.4	6.6	
9/15/2016				4.2					1.5
9/16/2016									
9/19/2016					1.6				
9/20/2016									
9/21/2016									
11/1/2016		1.3	1.4		1.8				1.7
11/2/2016				4.9			4.5	7.6	
11/3/2016									
11/4/2016	1.6					4.8			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				4.1					
1/11/2017		1.1	1.1						1.2
1/12/2017						3.8		6.8	
1/13/2017							4.2		
1/16/2017	1.4				1.7				
1/18/2017									
1/19/2017									
2/21/2017					1.7				
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017			1.1						
3/2/2017	1.3	1							1.2
3/3/2017									
3/6/2017							3.6		
3/7/2017						4.5		6.8	
3/8/2017				4.2					
4/26/2017			1.1	4.1	1.7				1.2
4/27/2017	1.3	1							
4/28/2017									
5/1/2017							4.3	7.2	
5/2/2017						4.6			

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	1.4	1.1				4.3		7	
6/28/2017			1.2						1.3
6/29/2017							4.2		
6/30/2017				3.7	1.8				
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	1.7	1.1				4.2		6.5	
10/4/2017			1.2		1.8				1.5
10/5/2017				3.8			4.7		
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		1.1							
6/6/2018	1.4							4.7	
6/7/2018						4.5	4.4		1.2
6/8/2018			1.2	3.4					
6/11/2018					2				
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						5.1	4.8	4.8	
10/1/2018	1.4	1.1	1.2	3.8					1.5
10/2/2018					1.8				
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	1.5	1.4							
3/29/2019				4.2					
4/1/2019			1.1		1.7				1.2

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						4.2	4.3	4	
6/12/2019									
9/24/2019	1.3	1.1				4.5		3.7	
9/25/2019			1.1	4.8	1.6		4.5		1.1
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	1.4			5.2					
3/19/2020		1.1	1.1		1.8				1.2
3/20/2020									
3/24/2020						4.3		3.5	
3/25/2020							3.9		
9/22/2020						4.2	4.5	3.6	
9/23/2020	1.2	0.99 (J)	1						1.1
9/24/2020					1.5				
9/25/2020				5.3					
3/1/2021					1.6				
3/2/2021				4.9		4.3		3.2	
3/3/2021	1.2	0.96 (J)	0.99 (J)				4.1		1.1
3/4/2021									
8/19/2021	1.3	1.1		5	1.6				1.1
8/20/2021									
8/26/2021						4.3	4.4	3.4	
8/27/2021			1.1						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.3	1	1.1						1.1
2/10/2022				4.7		4.4		3.2	
2/11/2022					2.1		4.1		
8/30/2022		1.3				4.4		3.5	
8/31/2022	1.5		1.3	4.6	1.8		4.4		1.3
9/1/2022									
2/7/2023	1.5	1.3						3.3	
2/8/2023			1.1	4.9	1.6				1.2
2/9/2023						5	4.5		



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			4.5	2.8	1.9				
6/8/2016						14	19	22	18
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	4.5		1.9				
7/28/2016				2.6					
8/1/2016						13	17	21	16
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1		4.5						
9/19/2016		7		2.4	1.9				
9/20/2016						13	18	22	18
9/21/2016									
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.4	7.5	5.4	2.9					
11/4/2016									
11/7/2016						14	17	24	16
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5	4.7						
1/12/2017									
1/13/2017				2.5	2.3				
1/16/2017									
1/18/2017						14	19		17
1/19/2017								22	
2/21/2017							18		16
2/22/2017								21	
2/23/2017						14			
2/24/2017									
3/1/2017	6	6.9							
3/2/2017			4.8						
3/3/2017									
3/6/2017				2.1	1.9				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7		2.1	2				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			4.6						

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
5/3/2017									17
5/5/2017									
5/8/2017						14	18	22	
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			4.5	2.8	2.6				
6/30/2017						14		21	
7/5/2017									
7/7/2017									
7/10/2017							19		15
7/11/2017									
7/17/2017									
10/3/2017				2.2					
10/4/2017	6.8		4.7		2.6				
10/5/2017		7							
10/6/2017								21	
10/9/2017						14			
10/10/2017							19		15
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				1.7					
6/6/2018					2.7				
6/7/2018		6.8							
6/8/2018									
6/11/2018	6.8		4.9						
6/12/2018								19.8	
6/13/2018						13.1	18.1		14.2
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	7.8	7.9	5.6	2.2	3.6				
9/26/2018									
10/1/2018									
10/2/2018						13.8	18.3	19.9	14
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						14.2		19.7	

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
4/2/2019			4.8	2.5			17.9		13.5
4/3/2019	6.3	6.9			3.1				
6/12/2019				3.1					
9/24/2019									
9/25/2019			5.7		2.8		17.1		14.4
9/26/2019	7.1	7				14.3		19.6	
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020									15.4
3/20/2020						13	17.7	17.7	
3/24/2020	6.8	7	5	2.8	2.7				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2	6.6						
9/24/2020				2	2.7	13.3	17.1	17	15.7
9/25/2020									
3/1/2021									
3/2/2021									13.2
3/3/2021	7.2	7	7.1		2.7	13	16.6	4	
3/4/2021				1.8					
8/19/2021									13.5
8/20/2021						13.7	14.4	15.2	
8/26/2021	7.3								
8/27/2021		7.4	8.5		2.8				
9/1/2021				1.8					
9/3/2021									
2/8/2022								13	
2/9/2022	7	7.5	10.9	1.7	2.8				
2/10/2022						13.1	15.4		14
2/11/2022									
8/30/2022	7	7.9	12	2.4					
8/31/2022					2.9		16.6		15
9/1/2022						13.4		10.4	
2/7/2023	6.4	7.4	11.4	2.4	2.9				
2/8/2023									
2/9/2023						13.9	16.6	11.5	15.1



# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017		19	21					
5/8/2017	15			5.8	4.2			
5/26/2017						0.93		
6/27/2017								
6/28/2017						1		
6/29/2017								
6/30/2017								
7/5/2017	14	18						
7/7/2017			20					
7/10/2017								
7/11/2017				5.8				
7/17/2017					3.8			
10/3/2017						1.2		
10/4/2017								
10/5/2017	15	19						
10/6/2017								
10/9/2017			20					
10/10/2017				5.9				
10/11/2017							2.4	
10/12/2017								3.8
10/16/2017					4.2			
11/20/2017							1.8	4.4
1/10/2018								4.6
1/11/2018							1.6	
2/19/2018					4.3			4.6
2/20/2018							2	
4/2/2018				4.8				
4/3/2018							3.3	5.9
6/5/2018								
6/6/2018								
6/7/2018						1		
6/8/2018								
6/11/2018	13.6							
6/12/2018		17.6	19.3					
6/13/2018								
6/28/2018							2.1	5
8/6/2018					3.8			
8/7/2018							1.2	4.3
9/19/2018				4				
9/24/2018							1.3	4.9
9/25/2018								
9/26/2018								
10/1/2018						1.1		
10/2/2018	13.4							
10/3/2018		17.7	20.2					
2/25/2019					4.1			
3/26/2019								4.4
3/27/2019				4.3			1.4	
3/28/2019								
3/29/2019						1.2		
4/1/2019	13.1	17.2						

# Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019			19.5					
4/3/2019								
6/12/2019					4.7			
9/24/2019						0.95 (J)		
9/25/2019	11.3							
9/26/2019		17.3	19.5					
10/8/2019				4.4	5.1			
10/9/2019							2.1	5.1
3/17/2020				4.1	4.8			
3/18/2020								
3/19/2020		16	18.1			0.97 (J)		
3/20/2020	11.3							
3/24/2020								4.7
3/25/2020							1.9	
9/22/2020				4.2	4.2			
9/23/2020						0.88 (J)		
9/24/2020	10.9	15.1	18				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	6.7	14.6	18			0.86 (J)		
3/4/2021							4.9	4.9
8/19/2021				3.5				
8/20/2021	6.8	15.2	18.1		5.2			
8/26/2021							7.2	
8/27/2021						0.99 (J)		
9/1/2021								
9/3/2021								5.5
2/8/2022	5.5	15.2	18.3	3.2	5.7		7.4	6.2
2/9/2022						1 (J)		
2/10/2022								
2/11/2022								
8/30/2022					6.3	1.2		
8/31/2022				3.5			6.7	6.3
9/1/2022	8.1	10.4	16.5					
2/7/2023					6.1	1.1	5.6	
2/8/2023	10.4			3.5				6.9
2/9/2023		11.5	18.1					

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
6/1/2016	<0.1	0.12 (J)	0.15 (J)						
6/2/2016				<0.1	<0.1	0.11 (J)	<0.1	<0.1	0.62
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	0.06 (J)		0.14 (J)		0.06 (J)				
7/26/2016		0.08 (J)		0.02 (J)		0.05 (J)	<0.1	<0.1	0.49
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	<0.1	0.11 (J)							
9/14/2016			0.18 (J)			0.04 (J)	<0.1	<0.1	
9/15/2016				<0.1					0.54
9/16/2016									
9/19/2016					<0.1				
9/20/2016									
9/21/2016									
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		
11/7/2016									
11/8/2016									
11/14/2016									
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						0.04 (J)	<0.1		
1/13/2017								<0.1	
1/16/2017	<0.1				<0.1				
1/18/2017									
1/19/2017									
2/21/2017					<0.1				
2/22/2017									
2/23/2017									
2/24/2017									
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					
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	
5/2/2017							<0.1		

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	<0.1	<0.1				<0.1	<0.1		
6/28/2017			0.12 (J)						0.47
6/29/2017								<0.1	
6/30/2017				<0.1	<0.1				
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	<0.1	<0.1				<0.1	<0.1		
10/4/2017			<0.1		<0.1				<0.1
10/5/2017				<0.1				<0.1	
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018	<0.1			<0.1	<0.1				
3/28/2018			<0.1						0.56
3/29/2018		<0.1				<0.1	<0.1	<0.1	
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018		0.055 (J)							
6/6/2018	<0.1					0.15 (J)			
6/7/2018							<0.1	<0.1	0.48
6/8/2018			0.2 (J)	<0.1					
6/11/2018					<0.1				
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						<0.1	<0.1	<0.1	
10/1/2018	<0.1	<0.1	<0.1	<0.1					0.44
10/2/2018					<0.1				
10/3/2018									
2/25/2019									
2/26/2019				<0.1	<0.1				



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
2/27/2019	<0.1	0.052 (J)	0.13 (J)						0.53
3/4/2019						0.19 (J)	<0.1	<0.1	
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.1	0.036 (J)							
3/29/2019				<0.1					
4/1/2019			0.1 (J)		<0.1				0.45
4/2/2019									
4/3/2019						0.047 (J)	<0.1	<0.1	
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	<0.1	0.063 (J)				0.05 (J)	<0.1		
9/25/2019			0.1 (J)	<0.1	<0.1			<0.1	0.46
9/26/2019									
10/8/2019									
10/9/2019									
2/10/2020	<0.1	0.061 (J)							
2/11/2020			0.094 (J)						
2/12/2020				<0.1	<0.1	<0.1	<0.1	<0.1	0.4
2/13/2020									
3/17/2020									
3/18/2020	<0.1			<0.1					
3/19/2020		0.064 (J)	0.11 (J)		<0.1				0.51
3/20/2020									
3/24/2020						<0.1	<0.1		
3/25/2020								<0.1	
8/26/2020									
8/27/2020									
9/22/2020						0.056 (J)	<0.1	<0.1	
9/23/2020	<0.1	0.058 (J)	0.098 (J)						0.47
9/24/2020					<0.1				
9/25/2020				<0.1					
2/8/2021						0.055 (J)	<0.1		
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				
3/2/2021				<0.1		<0.1	<0.1		
3/3/2021	<0.1	0.078 (J)	0.1					<0.1	0.44
3/4/2021									
8/19/2021	<0.1	0.074 (J)		<0.1	<0.1				0.47
8/20/2021									
8/26/2021						0.061 (J)	<0.1	<0.1	
8/27/2021			0.12						
9/1/2021									
9/3/2021									
2/8/2022									

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-3D (bg)
2/9/2022	<0.1	0.057 (J)	0.097 (J)						0.43
2/10/2022				<0.1		0.055 (J)	<0.1		
2/11/2022					<0.1			<0.1	
8/30/2022		0.093 (J)				0.085 (J)	<0.1		
8/31/2022	0.065 (J)		0.13	0.053 (J)	0.06 (J)			0.061 (J)	0.42
9/1/2022									
2/7/2023	0.071 (J)	0.093 (J)				0.082 (J)			
2/8/2023			0.16	0.059 (J)	0.064 (J)				0.56
2/9/2023							<0.1	0.067 (J)	

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
6/8/2016						0.12 (J)	0.094 (J)	<0.1	0.086 (J)
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1		<0.1				
7/28/2016				0.02 (J)					
8/1/2016						0.22 (J)	0.08 (J)	0.24 (J)	0.14 (J)
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	<0.1				<0.1				
9/19/2016		<0.1	<0.1	0.02 (J)					
9/20/2016						0.32	0.05 (J)	0.03 (J)	<0.1
9/21/2016									
11/1/2016									
11/2/2016			<0.1						
11/3/2016	<0.1	<0.1		<0.1	<0.1				
11/4/2016									
11/7/2016						<0.1 (*)	<0.1 (*)	0.44	<0.1 (*)
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1			<0.1				
1/12/2017									
1/13/2017			<0.1	<0.1					
1/16/2017									
1/18/2017							0.11 (J)	<0.1 (*)	<0.1 (*)
1/19/2017						0.25 (J)			
2/21/2017							<0.1 (*)	<0.1 (*)	
2/22/2017						0.21 (J)			
2/23/2017									<0.1 (*)
2/24/2017									
3/1/2017	<0.1	<0.1							
3/2/2017					<0.1				
3/3/2017									
3/6/2017			<0.1	<0.1					
3/7/2017									
3/8/2017									
4/26/2017	<0.1	<0.1	<0.1	0.04 (J)					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					<0.1				

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
5/3/2017								0.16 (J)	
5/5/2017									
5/8/2017						0.19 (J)	0.08 (J)		0.07 (J)
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1	<0.1				
6/30/2017						0.2 (J)			<0.1 (*)
7/5/2017									
7/7/2017									
7/10/2017							<0.1 (*)	<0.1 (*)	
7/11/2017									
7/17/2017									
10/3/2017				<0.1					
10/4/2017	<0.1		<0.1		<0.1				
10/5/2017		<0.1							
10/6/2017						<0.1 (*)			
10/9/2017									<0.1 (*)
10/10/2017							<0.1	<0.1	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1			<0.1				
3/29/2018			<0.1	<0.1		0.49			<0.1
3/30/2018							<0.1	0.35	
4/2/2018									
4/3/2018									
6/5/2018				0.13 (J)					
6/6/2018			<0.1						
6/7/2018		<0.1							
6/8/2018									
6/11/2018	<0.1				<0.1				
6/12/2018						0.037 (J)			
6/13/2018							0.088 (J)	0.044 (J)	<0.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	<0.1	<0.1	<0.1	0 (J)	<0.1				
9/26/2018									
10/1/2018									
10/2/2018						<0.1	<0.1	<0.1	<0.1
10/3/2018									
2/25/2019									
2/26/2019									

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
2/27/2019						0.14 (J)	<0.1	<0.1	<0.1
3/4/2019									
3/5/2019	<0.1		<0.1	0.32	<0.1				
3/6/2019		<0.1							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						0.088 (J)			0.034 (J)
4/2/2019				0.12 (J)	<0.1		0.071 (J)	<0.1	
4/3/2019	<0.1	<0.1	<0.1						
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019				0.15 (J)					
9/25/2019			<0.1		<0.1		0.064 (J)	<0.1	
9/26/2019	<0.1	<0.1				0.22 (J)			0.14 (J)
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020	<0.1	<0.1			<0.1				
2/12/2020			<0.1	0.1 (J)					
2/13/2020						0.11 (J)	<0.1	<0.1	<0.1
3/17/2020									
3/18/2020									
3/19/2020								<0.1	
3/20/2020						0.097 (J)	0.06 (J)		<0.1
3/24/2020	<0.1	<0.1	<0.1	0.081 (J)	<0.1				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1			<0.1				
9/24/2020			<0.1	0.079 (J)		0.092 (J)	0.053 (J)	<0.1	0.059 (J)
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	<0.1	0.092 (J)					
2/10/2021						0.084 (J)	0.05 (J)	<0.1	0.055 (J)
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021								<0.1	
3/3/2021	<0.1	<0.1	<0.1		<0.1	<0.1	0.05 (J)		0.058 (J)
3/4/2021				0.091 (J)					
8/19/2021								<0.1	
8/20/2021						0.11	<0.1		0.091 (J)
8/26/2021	<0.1								
8/27/2021		<0.1	<0.1		<0.1				
9/1/2021				0.11					
9/3/2021									
2/8/2022						0.087 (J)			

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWC-27S	YGWC-26I	YGWC-26S	YGWC-27I
2/9/2022	<0.1	<0.1	<0.1	0.1	<0.1				
2/10/2022							<0.1	<0.1	0.059 (J)
2/11/2022									
8/30/2022	<0.1	<0.1		0.1	<0.1				
8/31/2022			<0.1				0.082 (J)	0.076 (J)	
9/1/2022						0.12			0.1
2/7/2023	<0.1	<0.1	<0.1	0.1	<0.1				
2/8/2023									
2/9/2023						0.12	0.088 (J)	0.07 (J)	0.1

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IA	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	0.16 (J)	0.098 (J)	0.085 (J)					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	0.5	0.38	0.09 (J)					
8/30/2016				0.09 (J)				
8/31/2016					0.14 (J)			
9/13/2016								
9/14/2016						0.08 (J)		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	0.25 (J)	0.08 (J)	0.09 (J)					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016								
11/7/2016	0.27 (J)		<0.1 (*)				<0.1	
11/8/2016		0.24 (J)						
11/14/2016				0.18 (J)				
11/28/2016					0.12 (J)			
12/15/2016								0.06 (J)
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017								0.1 (J)
1/18/2017	0.34	0.12 (J)						
1/19/2017			<0.1 (*)					
2/21/2017	0.27 (J)							
2/22/2017		<0.1 (*)	<0.1 (*)		0.09 (J)			
2/23/2017								
2/24/2017				0.05 (J)				
3/1/2017								
3/2/2017								
3/3/2017								<0.1
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017								0.06 (J)
5/1/2017								
5/2/2017								

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IA	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	0.2 (J)	0.08 (J)						
5/8/2017			0.06 (J)	0.03 (J)	0.05 (J)			
5/26/2017						0.09 (J)		
6/27/2017								
6/28/2017						0.11 (J)		
6/29/2017								
6/30/2017								
7/5/2017		0.11 (J)	0.08 (J)					
7/7/2017	0.18 (J)							
7/10/2017								
7/11/2017				0.07 (J)				
7/17/2017					0.14 (J)			
10/3/2017						<0.1		
10/4/2017								
10/5/2017		<0.1 (*)	<0.1 (*)					
10/6/2017								
10/9/2017	<0.1 (*)							
10/10/2017				<0.1				
10/11/2017							<0.1	
10/12/2017								<0.1
10/16/2017					0.12 (J)			
11/20/2017							<0.1	<0.1
1/10/2018								<0.1
1/11/2018							<0.1	
2/19/2018					0.17			<0.1
2/20/2018							0.23	
3/27/2018								
3/28/2018						0.31		
3/29/2018			<0.1					
3/30/2018	<0.1	<0.1						
4/2/2018				<0.1				
4/3/2018							<0.1	<0.1
6/5/2018								
6/6/2018								
6/7/2018						0.11 (J)		
6/8/2018								
6/11/2018			<0.1					
6/12/2018	0.13 (J)	<0.1						
6/13/2018								
6/28/2018							<0.1	<0.1
8/6/2018					0.087 (J)			
8/7/2018							0.048 (J)	<0.1
9/19/2018				<0.1				
9/24/2018							<0.1	<0.1
9/25/2018								
9/26/2018								
10/1/2018						<0.1		
10/2/2018			<0.1					
10/3/2018	0.31	<0.1						
2/25/2019					0.14 (J)			
2/26/2019								



# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IA	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.22 (J)	0.14 (J)	0.15 (J)			0.12 (J)		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								<0.1
3/27/2019				0.081 (J)			<0.1	
3/28/2019								
3/29/2019						0.13 (J)		
4/1/2019		0.078 (J)	0.059 (J)					
4/2/2019	0.14 (J)							
4/3/2019								
6/12/2019					0.12 (J)			
8/19/2019					<0.1			
8/20/2019				<0.1				
8/21/2019							<0.1	<0.1
9/24/2019						0.081 (J)		
9/25/2019			0.054 (J)					
9/26/2019	0.28 (J)	0.29 (J)						
10/8/2019				0.034 (J)	0.052 (J)			
10/9/2019							<0.1	<0.1
2/10/2020								
2/11/2020						0.075 (J)		
2/12/2020							<0.1	<0.1
2/13/2020	0.18 (J)	0.14 (J)	0.053 (J)					
3/17/2020				<0.1	0.053 (J)			
3/18/2020								
3/19/2020	0.16 (J)	0.07 (J)				0.093 (J)		
3/20/2020			0.057 (J)					
3/24/2020								<0.1
3/25/2020							<0.1	
8/26/2020					0.068 (J)			
8/27/2020				<0.1				
9/22/2020				<0.1	0.058 (J)			
9/23/2020						0.08 (J)		
9/24/2020	0.16	0.073 (J)	0.06 (J)				<0.1	<0.1
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021						0.094 (J)	<0.1	<0.1
2/11/2021		0.066 (J)						
2/12/2021	0.069 (J)		0.17					
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.13	0.072 (J)	0.056 (J)			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.2	0.11	0.069 (J)		0.06 (J)			
8/26/2021							0.063 (J)	
8/27/2021						0.12		
9/1/2021								
9/3/2021								<0.1
2/8/2022	0.14	0.063 (J)	0.053 (J)	<0.1	0.064 (J)		0.052 (J)	<0.1

# Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IA	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/9/2022						0.094 (J)		
2/10/2022								
2/11/2022								
8/30/2022					0.086 (J)	0.12		
8/31/2022				0.065 (J)			0.065 (J)	0.05 (J)
9/1/2022	0.16	0.11	0.091 (J)					
2/7/2023					0.095 (J)	0.12	0.076 (J)	
2/8/2023			0.092 (J)	0.077 (J)				<0.1
2/9/2023	0.18	0.14						





# Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					5.63			5.84	
10/1/2018		7.47	5.9	6.8		7.39			5.39
10/2/2018							5.39		
10/3/2018									
2/25/2019	6.51								
2/26/2019							5.77		5.46
2/27/2019		7.54	5.8	6.84		7.55			
3/4/2019					5.75			6.18	
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019			6.15	6.99					
3/29/2019									5.34
4/1/2019		7.74				7.87	5.62		
4/2/2019									
4/3/2019					5.63			6.43	
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019			6.23	7.07	5.6				
9/25/2019		7.47				7.64	5.69	6.2	5.19
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020			6.1	7.2					
2/11/2020		7.09							
2/12/2020					5.83	7.83	5.8	6.15	5.48
2/13/2020									
3/17/2020	6.14								
3/18/2020			6.19						5.38
3/19/2020		7.31		7.03		7.65	6		
3/20/2020									
3/24/2020					5.81				
3/25/2020								6.26	
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78				5.99			5.8	
9/23/2020		7.37	6.01	7.15		7.57			
9/24/2020							5.67		
9/25/2020									5.44
2/8/2021					5.67				
2/9/2021								6.06	
2/10/2021		7.58				7.81			5.35

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)	YGWA-14S (bg)
2/11/2021							5.73		
2/12/2021			6.21	7.14					
3/1/2021							5.78		
3/2/2021	5.42				5.63				5.49
3/3/2021		8.23	5.38	7.2		8.39		6.21	
3/4/2021									
8/19/2021			6.38	6.32		5.34			7.32
8/20/2021	5.86								
8/26/2021					5.51			5.82	
8/27/2021		7.39							
9/1/2021									
9/3/2021									
2/8/2022	5.83								
2/9/2022		7.66	6.24	7.12		7.97			
2/10/2022					5.14				4.5
2/11/2022							5.59	5.95	
8/30/2022	5.39			7.2	5				
8/31/2022		7.49	5.64			7.65	5.87	5.5	5.15
9/1/2022									
2/7/2023	5.94		6.53	7.86					
2/8/2023		7.73				7.88	6.43		5.39
2/9/2023					5.9			6.23	

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-27I	YGWC-27S
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	7.67								
6/6/2016		5.71	6.17						
6/7/2016				6.1	5.77	5.62			
6/8/2016							5.85	6.32	6.24
6/9/2016									
7/25/2016									
7/26/2016	7.66								
7/27/2016		5.46	6.14		5.79	5.59			
7/28/2016				6.12					
8/1/2016							5.83	6.34	6.12
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016	7.6								
9/15/2016									
9/16/2016							5.58		
9/19/2016		5.59	6.04	6.12	5.73				
9/20/2016							5.89	6.36	6.3
9/21/2016									
11/1/2016									
11/2/2016	7.35				5.67				
11/3/2016		5.39	5.97	6.07		5.59			
11/4/2016									
11/7/2016							5.91	6.3	6.25
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05			5.59			
1/12/2017	7.49								
1/13/2017				6.41	5.79				
1/16/2017									
1/18/2017							5.84	6.31	
1/19/2017									6.2
2/21/2017							5.79		
2/22/2017									6.14
2/23/2017							6.18		

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-27I	YGWC-27S
2/24/2017									
3/1/2017		5.41	5.94						
3/2/2017						5.54			
3/3/2017									
3/6/2017				6.34	5.63				
3/7/2017	7.43								
3/8/2017									
4/26/2017		5.4	5.99	6.32	5.66				
4/27/2017									
4/28/2017									
5/1/2017	7.22								
5/2/2017						5.47			
5/3/2017									
5/5/2017									
5/8/2017							5.84	6.24	6.11
5/26/2017									
6/27/2017	7.32								
6/28/2017		5.36	6						
6/29/2017				6.47	5.85	5.56			
6/30/2017								6.21	6.17
7/5/2017									
7/7/2017									
7/10/2017							5.92		
7/11/2017									
7/17/2017									
10/3/2017	7.48			6.56					
10/4/2017		5.32			5.83	5.57			
10/5/2017			6.11						
10/6/2017									6.13
10/9/2017								6.26	
10/10/2017							5.84		
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018		5.34	6.1			5.59			
3/29/2018	7.02			6.75	5.93			6.36	6.25
3/30/2018							6.19		
4/2/2018									
4/3/2018									
6/5/2018				6.09					
6/6/2018	7.43				5.86				
6/7/2018			5.98						
6/8/2018									
6/11/2018		5.28				5.58			
6/12/2018									6.22
6/13/2018							5.82	6.28	



# Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-27I	YGWC-27S
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		4.86	5.81	6.67	5.84	5.59			
9/26/2018	7.13								
10/1/2018									
10/2/2018							5.81	5.9	5.99
10/3/2018									
2/25/2019									
2/26/2019									
2/27/2019							5.79	6.31	6.26
3/4/2019	7.46								
3/5/2019		5.26		7.22	6.07	5.48			
3/6/2019			5.99						
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								6.43	6.4
4/2/2019				6.94		5.74	5.87		
4/3/2019	7.11	5.47	6.29		5.71				
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	6.93			6.87					
9/25/2019					5.86	5.49	5.79		
9/26/2019		5.2	6.04					6.3	6.22
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07			5.58			
2/12/2020	7.52			7.13	6				
2/13/2020							5.93	6.4	6.31
3/17/2020									
3/18/2020									
3/19/2020									
3/20/2020							5.94	6.32	6.18
3/24/2020	7.34	5.33	5.98	6.35	5.86	5.57			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020	7.19								
9/23/2020		5.29	6.01			5.58			
9/24/2020				6.7	5.8		5.86	6.36	6.27
9/25/2020									
2/8/2021									
2/9/2021		5.43	6.12	6.95	5.86				
2/10/2021							5.96	6.29	6.21

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-26I	YGWC-27I	YGWC-27S
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021	7.15								
3/3/2021		5.31	5.89		5.89	5.52	5.93	6.43	6.35
3/4/2021				6.8					
8/19/2021									
8/20/2021							5.78	6.17	6.18
8/26/2021	7.16	4.4							
8/27/2021			5.4		5.57	5.27			
9/1/2021				6.65					
9/3/2021									
2/8/2022									6.22
2/9/2022		5.28	5.98	6.84	5.91	5.53			
2/10/2022	6.99						5.84	6.23	
2/11/2022									
8/30/2022	7.4	5.18	5.82	6.58		4.68			
8/31/2022					5.38		5.77		
9/1/2022								6.13	6.13
2/7/2023	6.64	5.03	6	6.82	5.63	5.47			
2/8/2023									
2/9/2023							5.76	6.48	6.64



# Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28I	YGWC-28S	YGWC-29IA	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/24/2017					5.49			
3/1/2017								
3/2/2017								
3/3/2017						7.22		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						7.21		
5/1/2017								
5/2/2017								
5/3/2017	5.28							
5/5/2017		6.36	6.4					
5/8/2017				6.11	5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017								
7/5/2017		6.4		6.17				
7/7/2017			6.46					
7/10/2017	5.25							
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017		6.43		6.17				
10/6/2017								
10/9/2017			6.37					
10/10/2017	5.17				5.49			
10/11/2017							6.4	
10/12/2017								5.43
10/16/2017								
11/20/2017							6.33	5.1
1/10/2018								4.97
1/11/2018							6.29	
2/19/2018								5.6
2/20/2018							7.22	
3/27/2018								
3/28/2018						7.3		
3/29/2018				6.09				
3/30/2018	5.19	6.39	6.35					
4/2/2018					6.3 (o)			
4/3/2018							6.87	5.84
6/5/2018								
6/6/2018								
6/7/2018						7.29		
6/8/2018								
6/11/2018				6.17				
6/12/2018		6.42	6.47					
6/13/2018	5.12							

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28I	YGWC-28S	YGWC-29IA	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/28/2018							6.18	5.24
8/6/2018								
8/7/2018							6.08	5.18
9/19/2018					5.48			
9/24/2018							5.81	5.14
9/25/2018								
9/26/2018								
10/1/2018						7.07		
10/2/2018	4.95			6.17				
10/3/2018		6.21	6.01					
2/25/2019								
2/26/2019								
2/27/2019	5	6.32	6.38	6.19		7.27		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								5.3
3/27/2019					5.83		5.84	
3/28/2019								
3/29/2019						7.06		
4/1/2019		6.3		6.03				
4/2/2019	5.13		6.7					
4/3/2019								
6/12/2019								
8/19/2019								
8/20/2019					5.58			
8/21/2019							5.96	5.26
9/24/2019						7.01		
9/25/2019	5.24			6.21				
9/26/2019		6.43	6.47					
10/8/2019					5.59			
10/9/2019							5.81	5.22
2/10/2020								
2/11/2020						7.38		
2/12/2020							5.97	5.3
2/13/2020	5.29	6.49	6.53	6.32				
3/17/2020					5.57			
3/18/2020								
3/19/2020	5.46	7.01	6.98			7.22		
3/20/2020				6.17				
3/24/2020								5.29
3/25/2020							5.78	
5/6/2020								
8/26/2020								
8/27/2020					4.88			
9/22/2020					5.46			
9/23/2020						7.22		
9/24/2020	5.46	6.41	6.53	6.2			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	5.18					7.29	5.8	5.19

# Prediction Limit

Constituent: pH (S.U.) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28I	YGWC-28S	YGWC-29IA	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021		6.57						
2/12/2021			6.6	6.24				
3/1/2021					5.48			
3/2/2021	5.38							
3/3/2021		6.51	6.61	6.27		7.92		
3/4/2021							5.54	5.23
8/19/2021	5.12				5.5			
8/20/2021		6.23	6.38	6.07				
8/26/2021							6.91	
8/27/2021						7.14		
9/1/2021								
9/3/2021								4.75
2/8/2022		6.34	6.3	5.88	5.4		5.78	5.26
2/9/2022						5.89		
2/10/2022	5.31							
2/11/2022								
8/30/2022						7.04		
8/31/2022	5.61				5.32		5.3	4.53
9/1/2022		6.41	6.59	6.05				
2/7/2023						6.94	5.49	
2/8/2023				6.67	5.22			5.71
2/9/2023	5.64	6.7	6.87					

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
6/1/2016	4.2	5	12						
6/2/2016				6.6	1.3	1.9	8	20	5.8
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	3.7		8.4		1.2				
7/26/2016		5.4		6.1		1.8	7.7	20	6.7
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	5.2	2.9							
9/14/2016			8.6			1.8	7.5	19	
9/15/2016				6.1					6
9/16/2016									
9/19/2016					1.2				
9/20/2016									
9/21/2016									
11/1/2016		3.9	8.9		1.3				4.9
11/2/2016				6.3			8.2	20	
11/3/2016									
11/4/2016	5					2			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				5.9					
1/11/2017		3.7	8.6						4.5
1/12/2017						1.9		19	
1/13/2017							8.1		
1/16/2017	7.9				<1				
1/18/2017									
1/19/2017									
2/21/2017					1.4				
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017			9.3						
3/2/2017	7.4	4.6							4.4
3/3/2017									
3/6/2017							8		
3/7/2017						2.1		20	
3/8/2017				7					
4/26/2017			11	7	1.4				5.1
4/27/2017	7.4	5.2							
4/28/2017									
5/1/2017							8.4	20	
5/2/2017						2			

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	6.4	5.9				2.1		18	
6/28/2017			12						5.4
6/29/2017							9.2		
6/30/2017				6.5	<1				
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	5.9	6.6				2.3		16	
10/4/2017			12		1.4				6.2
10/5/2017				7.9			9.6		
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		6.4							
6/6/2018	4.4							8.3	
6/7/2018						2	8.5		6.7
6/8/2018			9.6	6.4					
6/11/2018					1.1				
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						2.3	10.2	7.9	
10/1/2018	4	5.6	9.1	6.8					7.1
10/2/2018					1				
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	4.3	8							
3/29/2019				7.3					
4/1/2019			8.5		0.96 (J)				7.2



# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						2.1	8.5	7	
6/12/2019									
9/24/2019	4.3	5.3				2.4		5.5	
9/25/2019			13.8	6.6	0.81 (J)		8.5		7
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	5.3			8.1					
3/19/2020		10	12.9		1.6				9
3/20/2020									
3/24/2020						2.1		5.9	
3/25/2020							8.8		
9/22/2020						2.1	8.2	5.5	
9/23/2020	3.4	8.1	16.8						6.9
9/24/2020					0.69 (J)				
9/25/2020				6.1					
3/1/2021					0.88 (J)				
3/2/2021				6		2.3		2.6	
3/3/2021	4.4	9	9.6				7.8		7
3/4/2021									
8/19/2021	4.9	8.9		6.7	1				7.5
8/20/2021									
8/26/2021						2.4	8.5	6	
8/27/2021			18.2						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	5.1	9.3	16						7.2
2/10/2022				6.2		2.4		4.9	
2/11/2022					2.8		7.7		
8/30/2022		10.2				2.4		5.7	
8/31/2022	4.8		13.9	5.8	1.1		8		6.9
9/1/2022									
2/7/2023	6.6	10.6						5.2	
2/8/2023			14.7	6.1	0.96 (J)				7.5
2/9/2023						2.9	8.9		

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			4.4	5.2	<1				
6/8/2016						3.2	81	26	110
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	4.7		0.08 (J)				
7/28/2016				5.1					
8/1/2016						3.6	75	27	96
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.7		4.8						
9/19/2016		1.8		4.8	0.08 (J)				
9/20/2016						5.6	78	21	100
9/21/2016									
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	1.9	0.69 (J)	5.3	5					
11/4/2016									
11/7/2016						5.4	81	24	100
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1	5.2						
1/12/2017									
1/13/2017				4.3	<1				
1/16/2017									
1/18/2017						3.5	95		100
1/19/2017								25	
2/21/2017							80		96
2/22/2017								24	
2/23/2017						4.9			
2/24/2017									
3/1/2017	<1	1.8							
3/2/2017			5						
3/3/2017									
3/6/2017				4.5	<1				
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6		4.9	<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			5						

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
5/3/2017									100
5/5/2017									
5/8/2017						3.9	84	23	
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	5.5	<1				
6/30/2017						5		23	
7/5/2017									
7/7/2017									
7/10/2017							84		100
7/11/2017									
7/17/2017									
10/3/2017				5.8					
10/4/2017	1.7		5.3		<1				
10/5/2017		1.6							
10/6/2017								23	
10/9/2017						5.1			
10/10/2017							82		97
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				6.1					
6/6/2018						0.049 (J)			
6/7/2018		0.68 (J)							
6/8/2018									
6/11/2018	0.95 (J)		5.2						
6/12/2018								18.1	
6/13/2018						6.1	76.5		93.3
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1.5	1	6.1	7	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018						6.1	83.9	20.2	99
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						4.1		18.3	

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
4/2/2019			5.1	3.8			77.6		94.5
4/3/2019	1.3	0.82 (J)			0.12 (J)				
6/12/2019				1					
9/24/2019									
9/25/2019			5.5		<1		80.1		97
9/26/2019	1	0.64 (J)				4.2		18.2	
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020									99.4
3/20/2020						5.2	84.7	21.1	
3/24/2020	0.99 (J)	<1	5.4	3	<1				
3/25/2020									
9/22/2020									
9/23/2020	1.1	0.53 (J)	5.1						
9/24/2020				3.6	<1	3	85.6	16.6	92.3
9/25/2020									
3/1/2021									
3/2/2021									92.7
3/3/2021	1	<1	5.2		<1	2.6	89.3	451 (o)	
3/4/2021				4.5					
8/19/2021									86.5
8/20/2021						2.9	84	18	
8/26/2021	1.2								
8/27/2021		0.59 (J)	5.3		<1				
9/1/2021				5					
9/3/2021									
2/8/2022								16.3	
2/9/2022	1.1	0.51 (J)	4.8	3.9	<1				
2/10/2022						2.4	81.8		86.5
2/11/2022									
8/30/2022	1.3	0.78 (J)	4.7	3.2					
8/31/2022					<1		85.9		90.2
9/1/2022						2.5		13.5	
2/7/2023	1.2	0.78 (J)	4.9	3.8	<1				
2/8/2023									
2/9/2023						3.2	84.2	13.7	89.7

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	33	8.7	5.2					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	32	7.5	4.5					
8/30/2016				160				
8/31/2016					29			
9/13/2016								
9/14/2016							9.4	
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	32	8	<1 (*)					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016							13	
11/7/2016	33		4.3					
11/8/2016		8.3						
11/14/2016				150				
11/28/2016					36			
12/15/2016							1.8	
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017							11	
1/18/2017		8	2.7					
1/19/2017	32							
2/21/2017			3					
2/22/2017	31	8.2			43			
2/23/2017								
2/24/2017				120				
3/1/2017								
3/2/2017								
3/3/2017							8.8	
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017							10	
5/1/2017								
5/2/2017								

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017		<1 (*)	<1 (*)					
5/8/2017	32			120	60			
5/26/2017						12		
6/27/2017								
6/28/2017						11		
6/29/2017								
6/30/2017								
7/5/2017	31	8.1						
7/7/2017			2.7					
7/10/2017								
7/11/2017				110				
7/17/2017					63			
10/3/2017						7.9		
10/4/2017								
10/5/2017	31	8.6						
10/6/2017								
10/9/2017			2.9					
10/10/2017				93				
10/11/2017							20	
10/12/2017								17
10/16/2017					62			
11/20/2017							24	71
1/10/2018								66
1/11/2018							23	
2/19/2018					64.6			57.2
2/20/2018							20.6	
4/2/2018				88.8				
4/3/2018							24.5	49.4
6/5/2018								
6/6/2018								
6/7/2018						8.8		
6/8/2018								
6/11/2018	30.6							
6/12/2018		8.2	2.9					
6/13/2018								
6/28/2018							22	43.8
8/6/2018					42.1			
8/7/2018							20.7	40.5
9/19/2018				75				
9/24/2018							21.2	39.7
9/25/2018								
9/26/2018								
10/1/2018						9.1		
10/2/2018	30.8							
10/3/2018		8	2.1					
2/25/2019					42.1			
3/26/2019								34.3
3/27/2019				65.9			17.7	
3/28/2019								
3/29/2019						9		
4/1/2019	30.4	8.2						

# Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019			2.4					
4/3/2019								
6/12/2019					83.4			
9/24/2019						9.1		
9/25/2019	30							
9/26/2019		7.9	1.6					
10/8/2019				52.3	128			
10/9/2019							15	27.9
3/17/2020				71.6	98.6			
3/18/2020								
3/19/2020		9.1	1.7			12.4		
3/20/2020	33							
3/24/2020								25.2
3/25/2020							14.3	
9/22/2020				51.5	145			
9/23/2020						11.8		
9/24/2020	26.2	7.2	0.99 (J)				11.7	22.9
9/25/2020								
3/1/2021				51.6				
3/2/2021					156			
3/3/2021	26.6	8.6	4.9			10.6		
3/4/2021							12	21.5
8/19/2021				52.6				
8/20/2021	24.7	8.9	5.4		121			
8/26/2021							19.2	
8/27/2021						16.7		
9/1/2021								
9/3/2021								21.3
2/8/2022	22.9	8.1	10.5	50.9	107		14.6	17.9
2/9/2022						18		
2/10/2022								
2/11/2022								
8/30/2022					101	20.1		
8/31/2022				48			10.9	17.9
9/1/2022	21.2	7.6	13.4					
2/7/2023					82.4	17.8	9.7	
2/8/2023	23.7			50.5				17.5
2/9/2023		7.4	16					

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
6/1/2016	54	120	150						
6/2/2016				46	36	66	96	160	130
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	48		135		50				
7/26/2016		94		54		78	92	177	141
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	67	105							
9/14/2016			127			73	102	187	
9/15/2016				54					153
9/16/2016									
9/19/2016					35				
9/20/2016									
9/21/2016									
11/1/2016		44	75		<25				92
11/2/2016				71			115	181	
11/3/2016									
11/4/2016	60					75			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				45					
1/11/2017		107	148						159
1/12/2017						86		202	
1/13/2017							67		
1/16/2017	65				47				
1/18/2017									
1/19/2017									
2/21/2017					<25				
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017			182						
3/2/2017	61	98							117
3/3/2017									
3/6/2017							159		
3/7/2017						108		257	
3/8/2017				178					
4/26/2017			92	52	55				181
4/27/2017	31	116							
4/28/2017									
5/1/2017							107	165	
5/2/2017						103			



# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	42	89				73		189	
6/28/2017			126						169
6/29/2017							79		
6/30/2017				45	42				
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	58	119				89		170	
10/4/2017			147		31				141
10/5/2017				40			95		
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		127							
6/6/2018	96							151	
6/7/2018						142	90		95
6/8/2018			158	114					
6/11/2018					59				
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						86	116	144	
10/1/2018	60	117	138	50					165
10/2/2018					57				
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	87	87							
3/29/2019				63					
4/1/2019			19 (J)		54				149

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)
4/2/2019									
4/3/2019						83	111	142	
6/12/2019									
9/24/2019	54	124				79		129	
9/25/2019			159	64	51		117		157
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	35			57					
3/19/2020		116	148		47				146
3/20/2020									
3/24/2020						68		139	
3/25/2020							146		
9/22/2020						75	83	104	
9/23/2020	15	108	155						157
9/24/2020					51				
9/25/2020				54					
3/1/2021					23				
3/2/2021				67		67		52	
3/3/2021	39	99	111				80		137
3/4/2021									
8/19/2021	44	105		54	50				144
8/20/2021									
8/26/2021						86	93	123	
8/27/2021			155						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	57	105	145						154
2/10/2022				56		77		127	
2/11/2022					66		102		
8/30/2022		116				86		148	
8/31/2022	46		137	51	33		92		141
9/1/2022									
2/7/2023	121	131						180	
2/8/2023			145	56	43				144
2/9/2023						59	124		

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			28	60	38				
6/8/2016						190	220	210	200
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	35	94	74		74				
7/28/2016				81					
8/1/2016						191	211	209	191
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35		67						
9/19/2016		92		68	45				
9/20/2016						205	217	224	213
9/21/2016									
11/1/2016									
11/2/2016					53				
11/3/2016	48	104	41	61					
11/4/2016									
11/7/2016						264	301	291	284
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133	104						
1/12/2017									
1/13/2017				76	46				
1/16/2017									
1/18/2017						167 (D)	265 (D)		158 (D)
1/19/2017								215 (D)	
2/21/2017							158		137
2/22/2017								262	
2/23/2017						253			
2/24/2017									
3/1/2017	79	119							
3/2/2017			77						
3/3/2017									
3/6/2017				167	164				
3/7/2017									
3/8/2017									
4/26/2017	36	162		50	34				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			142						

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
5/3/2017									269
5/5/2017									
5/8/2017						174	207	187	
5/26/2017									
6/27/2017									
6/28/2017	45	98							
6/29/2017			53	94	68				
6/30/2017						193		209	
7/5/2017									
7/7/2017									
7/10/2017							219		183
7/11/2017									
7/17/2017									
10/3/2017				149					
10/4/2017	45		61		54				
10/5/2017		104							
10/6/2017								183	
10/9/2017						185			
10/10/2017							194		179
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				109					
6/6/2018					79				
6/7/2018		68							
6/8/2018									
6/11/2018	74		70						
6/12/2018								208	
6/13/2018						219	228		196
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	63	109	86	122	73				
9/26/2018									
10/1/2018									
10/2/2018						227	227	206	191
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						198		221	

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-27I	YGWC-26I	YGWC-27S	YGWC-26S
4/2/2019			72	134			223		224
4/3/2019	63	89			57				
6/12/2019				157					
9/24/2019			81		75		225		190
9/25/2019	72	126				198		225	
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020									194
3/20/2020						195	211	182	
3/24/2020	59	91	71	117	76				
3/25/2020									
9/22/2020									
9/23/2020	81	103	99						
9/24/2020				113	69	186	212	185	171
9/25/2020									
3/1/2021									
3/2/2021									154
3/3/2021	37	95	57		53	173	205	178	
3/4/2021				110					
8/19/2021									176
8/20/2021						196	224	169	
8/26/2021	31								
8/27/2021		112	93		67				
9/1/2021				137					
9/3/2021									
2/8/2022								159	
2/9/2022	60	103	81	131	72				
2/10/2022						190	207		168
2/11/2022									
8/30/2022	52	100	81	122					
8/31/2022					62		228		206
9/1/2022						193		124	
2/7/2023	55	96	78	163	89				
2/8/2023									
2/9/2023						189	366	116	196



# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017		289	347					
5/8/2017	114			194	145			
5/26/2017						223		
6/27/2017								
6/28/2017						166		
6/29/2017								
6/30/2017								
7/5/2017	136	217						
7/7/2017			236					
7/10/2017								
7/11/2017				193				
7/17/2017					185			
10/3/2017						153		
10/4/2017								
10/5/2017	139	221						
10/6/2017								
10/9/2017			204					
10/10/2017				175				
10/11/2017							68	
10/12/2017								74
10/16/2017					218			
11/20/2017							139	179
1/10/2018								140
1/11/2018							153	
2/19/2018					173			119
2/20/2018							87	
4/2/2018				192				
4/3/2018							85	106
6/5/2018								
6/6/2018								
6/7/2018						146		
6/8/2018								
6/11/2018	156							
6/12/2018		234	243					
6/13/2018								
6/28/2018							88	112
8/6/2018					158			
8/7/2018							89	103
9/19/2018				186				
9/24/2018							82	107
9/25/2018								
9/26/2018								
10/1/2018						155		
10/2/2018	154							
10/3/2018		232	237					
2/25/2019					92			
3/26/2019								90
3/27/2019				170			75	
3/28/2019								
3/29/2019						150		
4/1/2019	147	238						

# Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 4/28/2023 6:20 AM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IA	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019			<25					
4/3/2019								
6/12/2019					226			
9/24/2019						146		
9/25/2019	162							
9/26/2019		241	239					
10/8/2019				172	276			
10/9/2019							119	98
3/17/2020				165	185			
3/18/2020								
3/19/2020		212	202			148		
3/20/2020	137							
3/24/2020								84
3/25/2020							158	
9/22/2020				141	281			
9/23/2020						161		
9/24/2020	133	209	226				170	77
9/25/2020								
3/1/2021				145				
3/2/2021					296			
3/3/2021	110	184	217			138		
3/4/2021							168	57
8/19/2021				134				
8/20/2021	110	194	192		254			
8/26/2021							249	
8/27/2021						150		
9/1/2021								
9/3/2021								88
2/8/2022	120	206	216	151	283		248	93
2/9/2022						156		
2/10/2022								
2/11/2022								
8/30/2022					244	153		
8/31/2022				116			242	92
9/1/2022	128	186	225					
2/7/2023					207	159	224	
2/8/2023	158			141				115
2/9/2023		184	226					



FIGURE E.

# Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:25 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWC-26I	-0.04137	-100	-81	Yes	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0007791	-66	-63	Yes	17	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.0181	75	63	Yes	17	5.882	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01412	-91	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.04106	-83	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3475	-90	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.4875	-94	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.4206	-96	-63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.6176	144	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.09536	88	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.1082	121	81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.38	82	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.6898	-139	-81	Yes	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.3022	89	68	Yes	18	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-13.38	-101	-63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	11.42	85	81	Yes	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	29.24	74	63	Yes	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-11.59	-90	-81	Yes	20	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - All Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond 2    Printed 4/28/2023, 6:25 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0006705	-53	-81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001404	46	81	No	20	40	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-3	-81	No	20	75	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-2	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-16	-81	No	20	85	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	8	81	No	20	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-15	-81	No	20	90	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>YGWC-26I</b>	<b>-0.04137</b>	<b>-100</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	YGWC-26S	0.01502	71	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.05704	65	81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.05038	-70	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	-0.05963	-35	-81	No	20	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	-0.01236	-14	-81	No	20	0	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-0.0007791</b>	<b>-66</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	YGWA-17S (bg)	0.0003162	37	81	No	20	10	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-18	-81	No	20	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0004242	39	81	No	20	25	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-7	-81	No	20	90	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-48	-81	No	20	60	n/a	n/a	0.01	NP
<b>Boron (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>0.0181</b>	<b>75</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>5.882</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Boron (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-0.01412</b>	<b>-91</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron (mg/L)	YGWA-4I (bg)	0	7	81	No	20	70	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0004226	48	81	No	20	15	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-18	-81	No	20	65	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	29	68	No	18	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29IA	-0.02155	-74	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1256	62	81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-23	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	0	-27	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21 (bg)	-0.01591	-28	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-21	-81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>-0.04106</b>	<b>-83</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-3I (bg)	-0.02711	-72	-81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWC-26I</b>	<b>-0.3475</b>	<b>-90</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>YGWC-26S</b>	<b>-0.4875</b>	<b>-94</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWC-27I	0	-20	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.2424	-58	-81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-0.4206</b>	<b>-96</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.6176</b>	<b>144</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride (mg/L)</b>	<b>YGWA-18I (bg)</b>	<b>0.09536</b>	<b>88</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-18S (bg)	0.1291	65	81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-20S (bg)</b>	<b>0.1082</b>	<b>121</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-21I (bg)	-0.08464	-55	-81	No	20	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.764	61	63	No	17	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>0.38</b>	<b>82</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-4I (bg)	0.07352	53	81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-0.6898</b>	<b>-139</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride (mg/L)	YGWA-5I (bg)	0.01678	22	81	No	20	0	n/a	n/a	0.01	NP
<b>Chloride (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>0.3022</b>	<b>89</b>	<b>68</b>	<b>Yes</b>	<b>18</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.3652	16	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	2.029	32	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-11 (bg)	-1.086	-18	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21 (bg)	-0.8152	-19	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	1.488	24	81	No	20	10	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	0.3218	7	81	No	20	0	n/a	n/a	0.01	NP

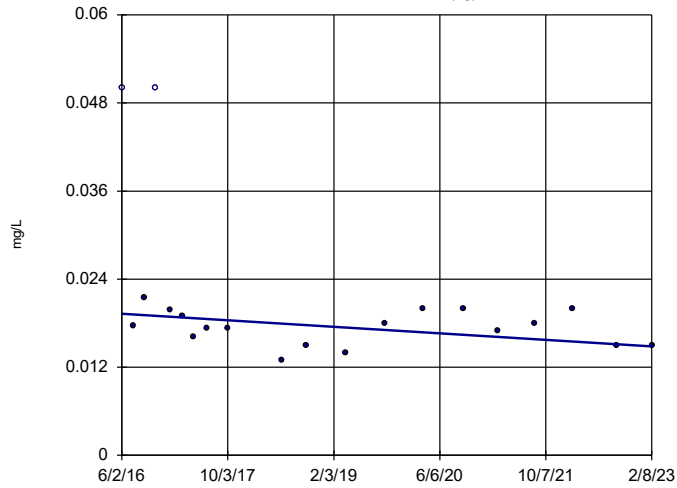
# Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:25 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	0.862	9	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-26I	1.044	13	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-28S	-0.2581	-3	-81	No	20	5	n/a	n/a	0.01	NP
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-13.38</b>	<b>-101</b>	<b>-63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	2.621	47	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18I (bg)	-1.319	-26	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	0.3933	9	81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	3.156	51	81	No	20	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWA-21I (bg)</b>	<b>11.42</b>	<b>85</b>	<b>81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>29.24</b>	<b>74</b>	<b>63</b>	<b>Yes</b>	<b>17</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-7.039	-48	-63	No	17	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-4I (bg)	0.9669	14	81	No	20	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-11.59</b>	<b>-90</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids (mg/L)	YGWA-5I (bg)	-0.8043	-16	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	17.72	66	68	No	18	0	n/a	n/a	0.01	NP

### Sen's Slope Estimator

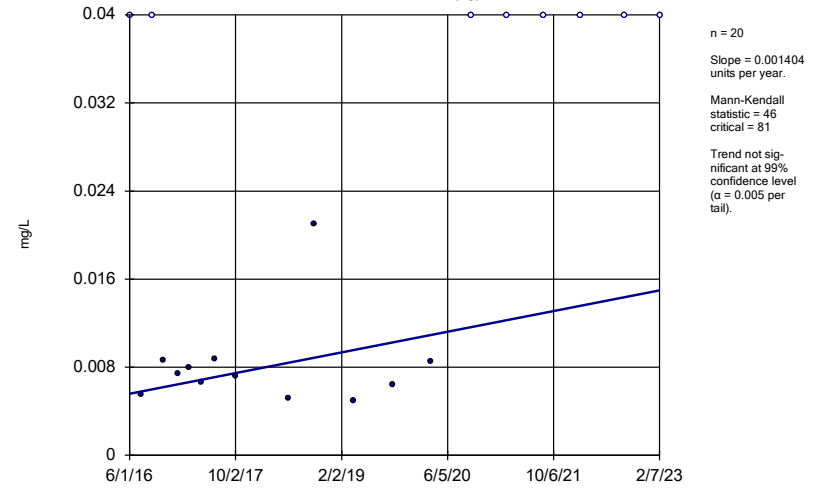
YGWA-14S (bg)



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

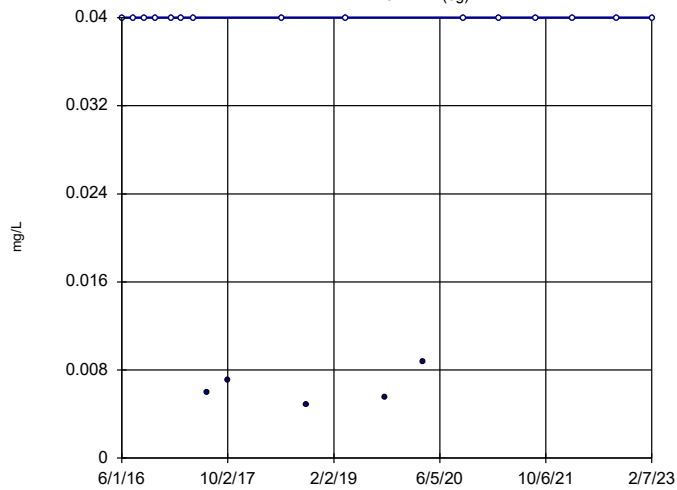
YGWA-1D (bg)



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

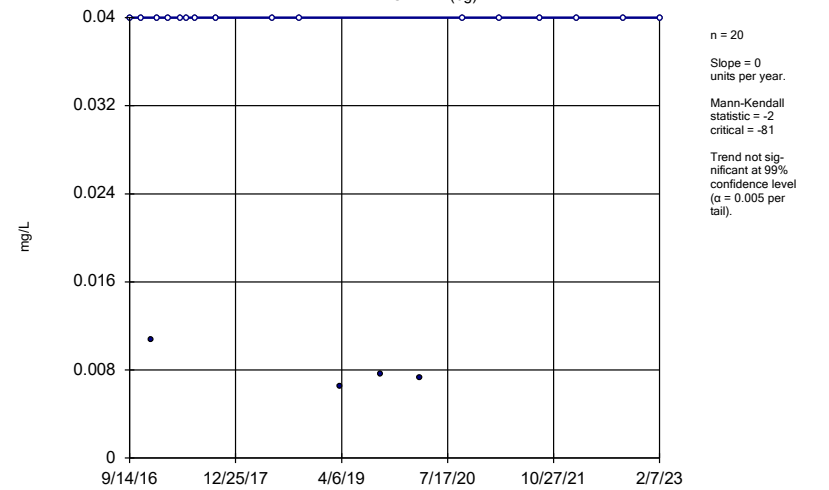
YGWA-11 (bg)



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

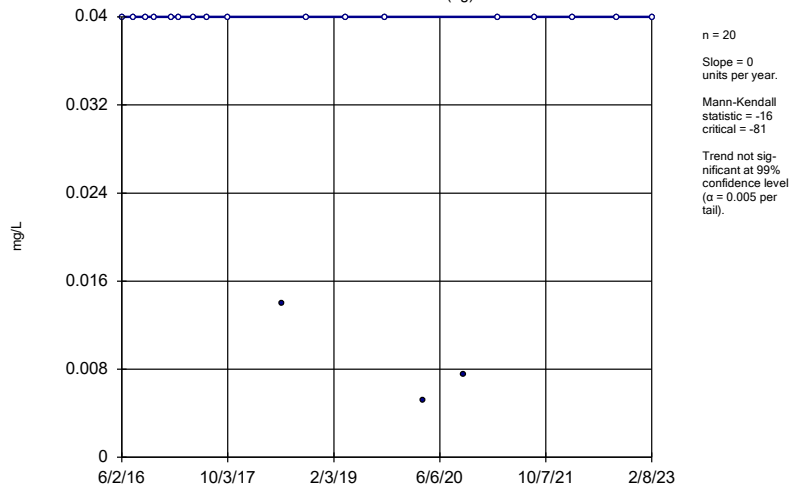
YGWA-2I (bg)



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

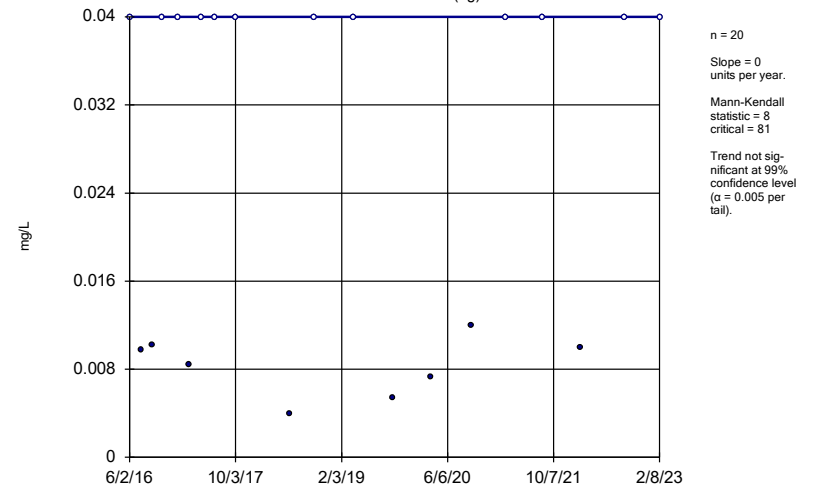
YGWA-30I (bg)



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

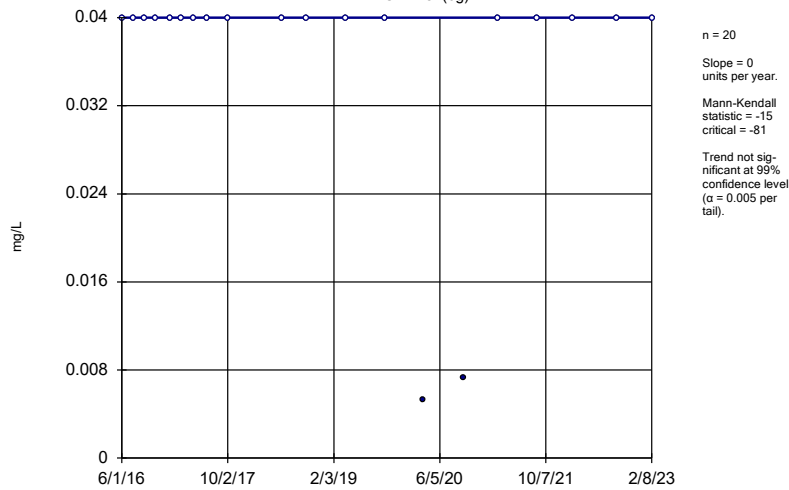
YGWA-3D (bg)



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

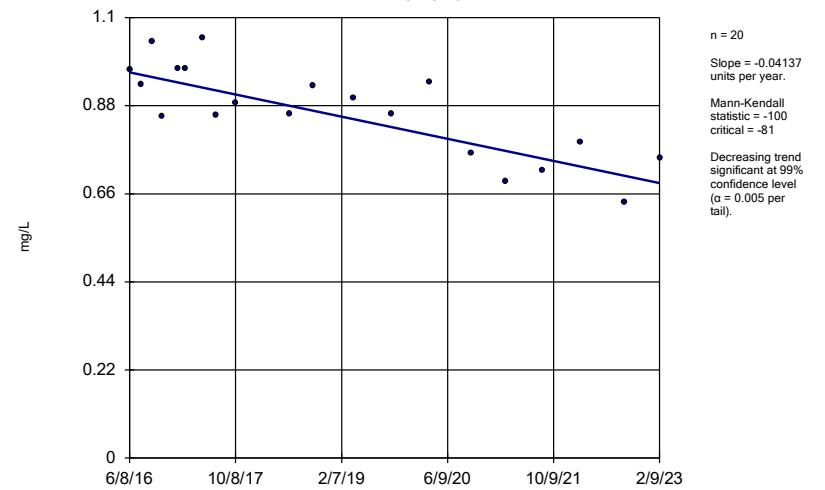
YGWA-3I (bg)



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

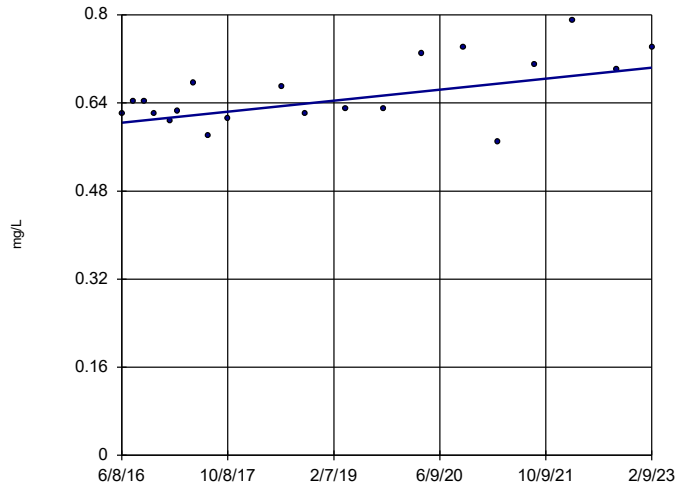
YGWC-26I



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

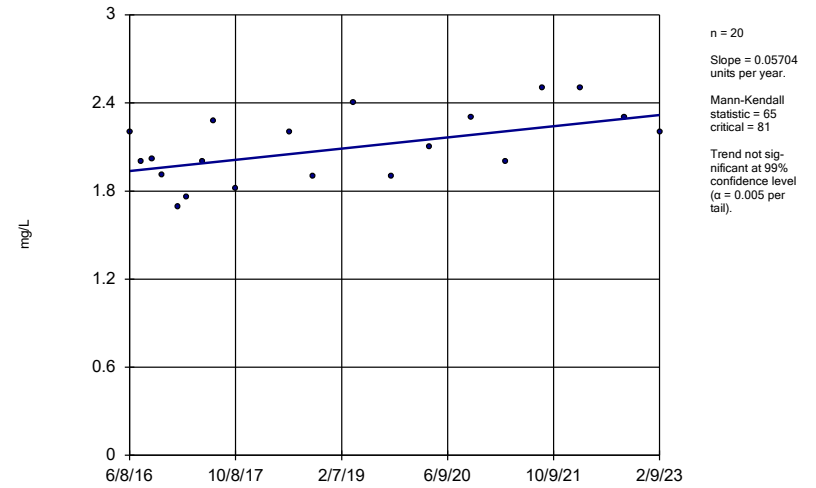
YGWC-26S



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

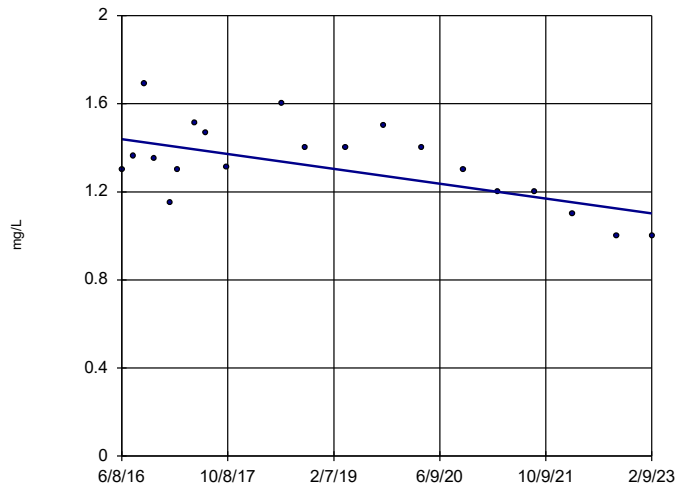
YGWC-27I



Constituent: Boron Analysis Run 4/28/2023 6:23 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

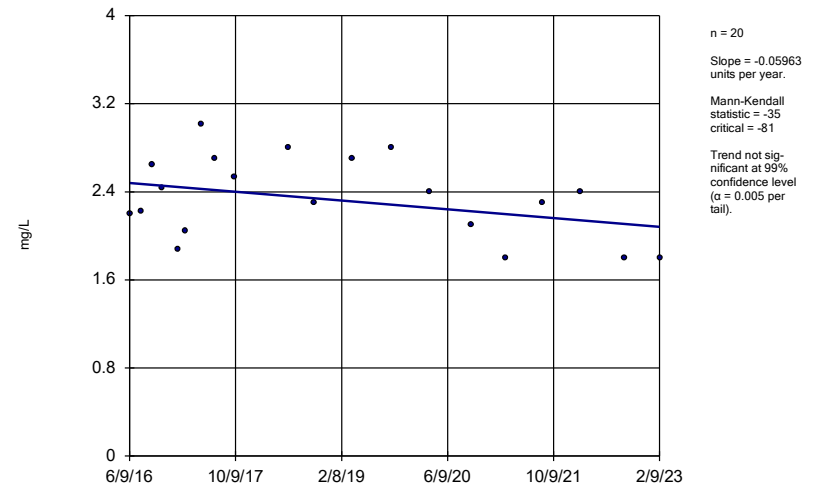
YGWC-27S



Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

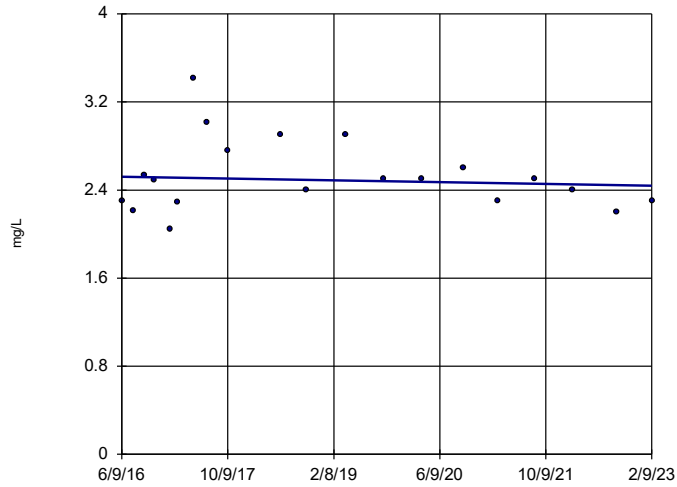
YGWC-28I



Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWC-28S

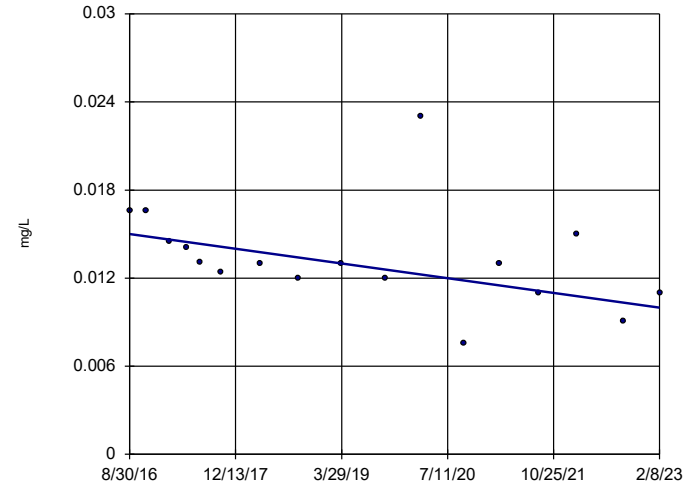


n = 20  
 Slope = -0.01236  
 units per year.  
 Mann-Kendall  
 statistic = -14  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-47 (bg)

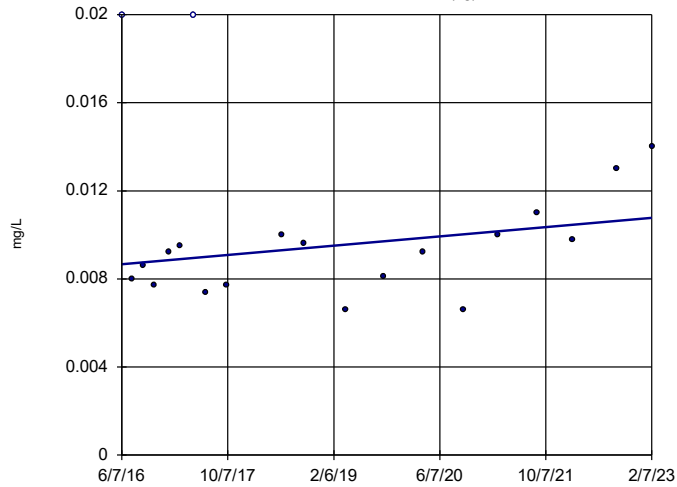


n = 17  
 Slope = -0.0007791  
 units per year.  
 Mann-Kendall  
 statistic = -66  
 critical = -63  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-17S (bg)

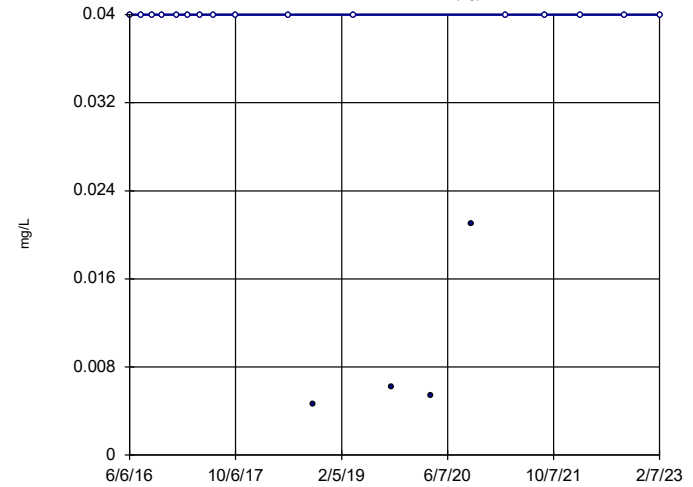


n = 20  
 Slope = 0.0003162  
 units per year.  
 Mann-Kendall  
 statistic = 37  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-18I (bg)



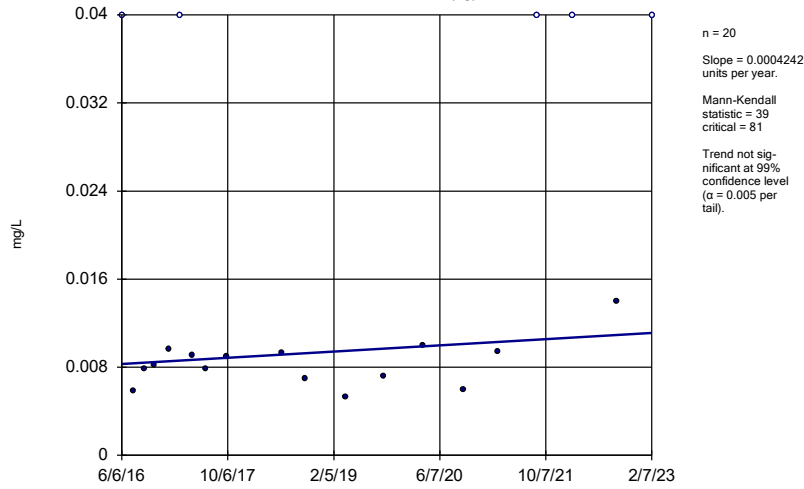
n = 20  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -18  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



### Sen's Slope Estimator

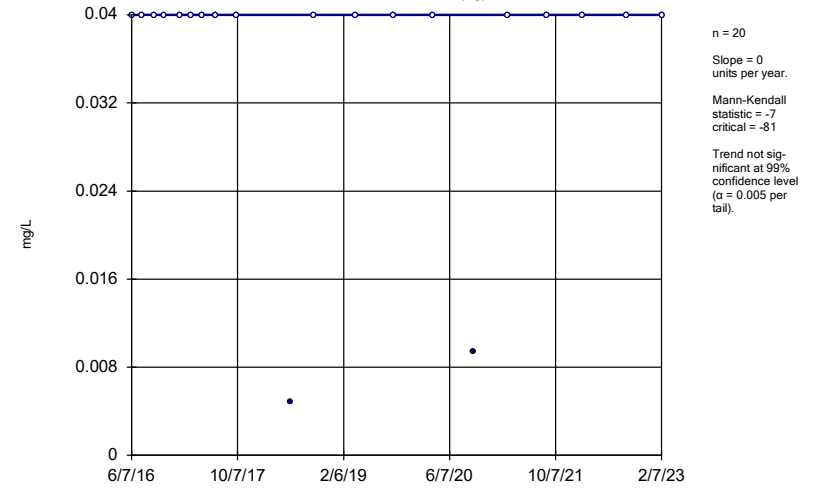
YGWA-18S (bg)



Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

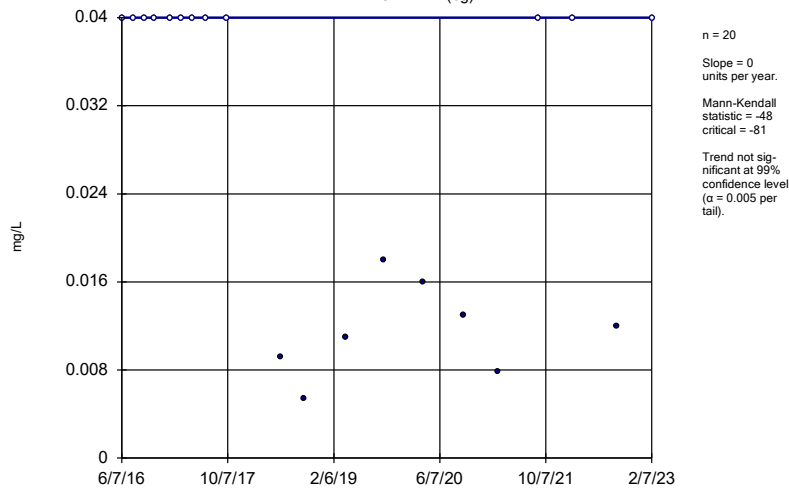
YGWA-20S (bg)



Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

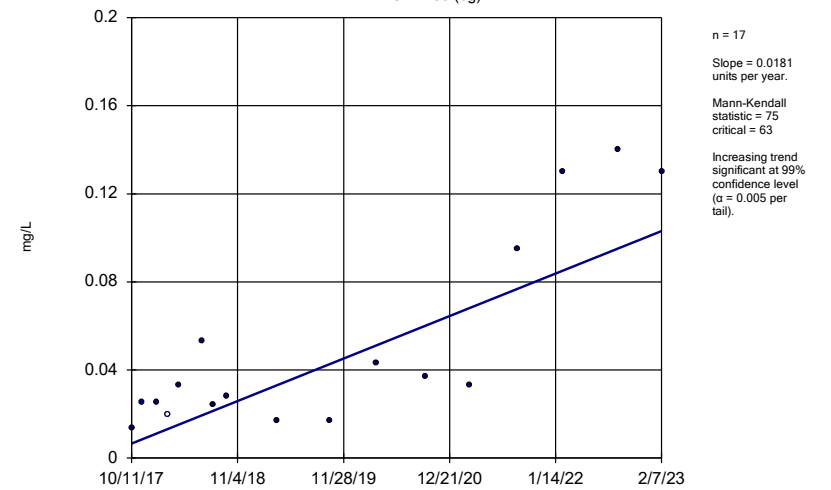
YGWA-21I (bg)



Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-39 (bg)

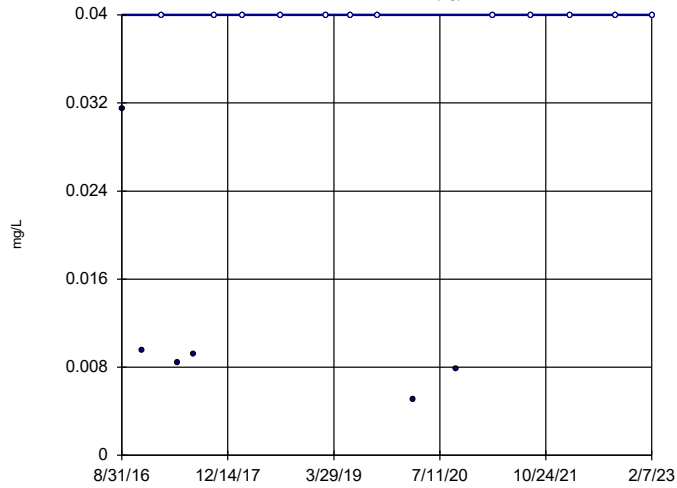


Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



### Sen's Slope Estimator

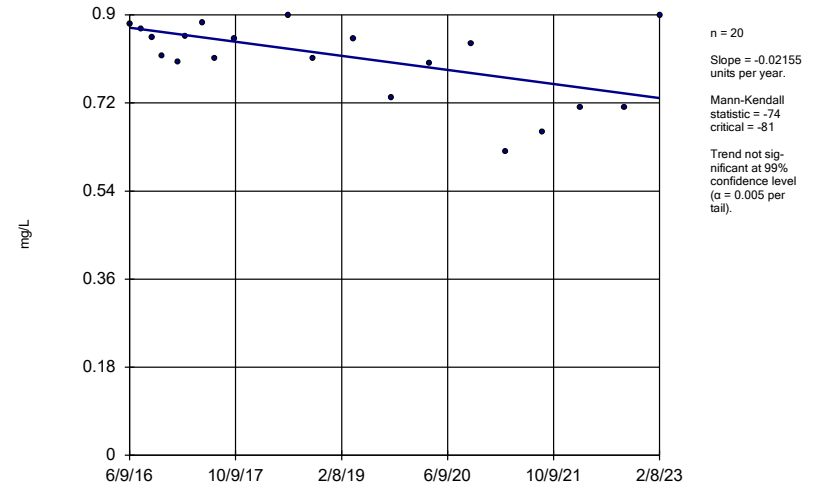
GWA-2 (bg)



Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

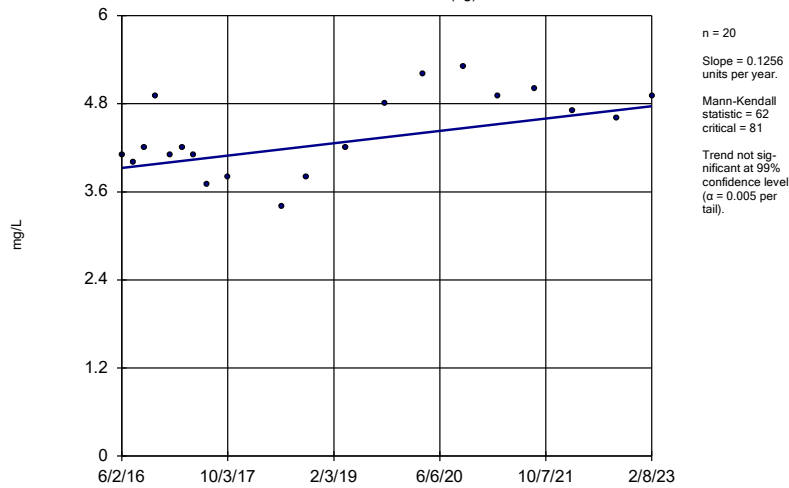
YGWC-29IA



Constituent: Boron Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

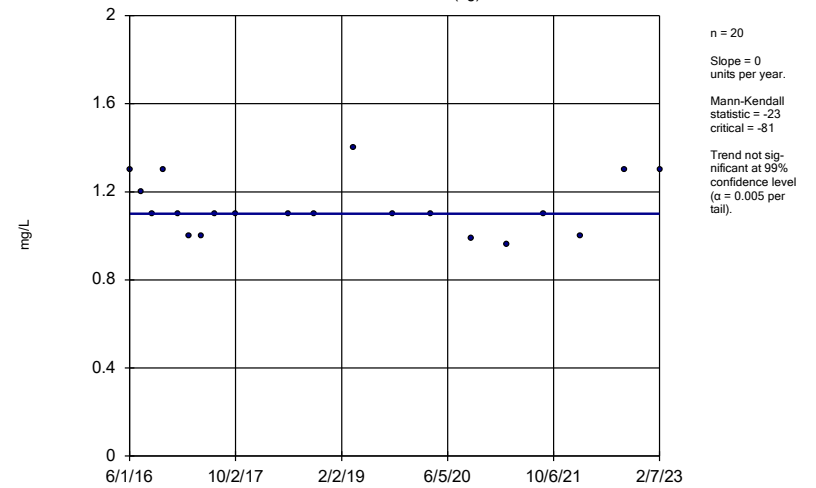
YGWA-14S (bg)



Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

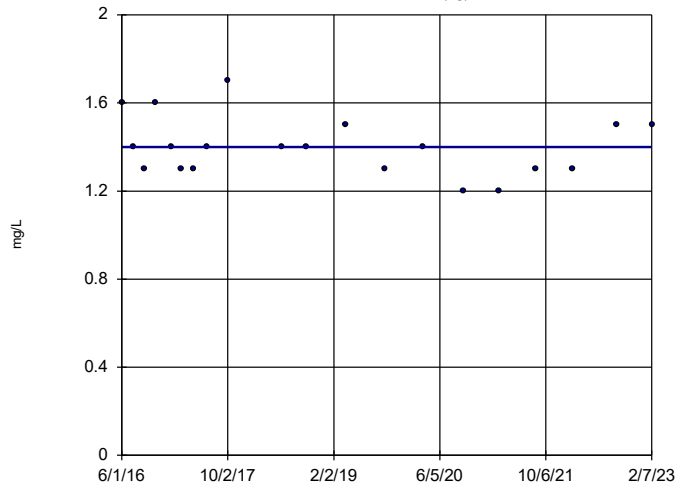
YGWA-1D (bg)



Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-11 (bg)

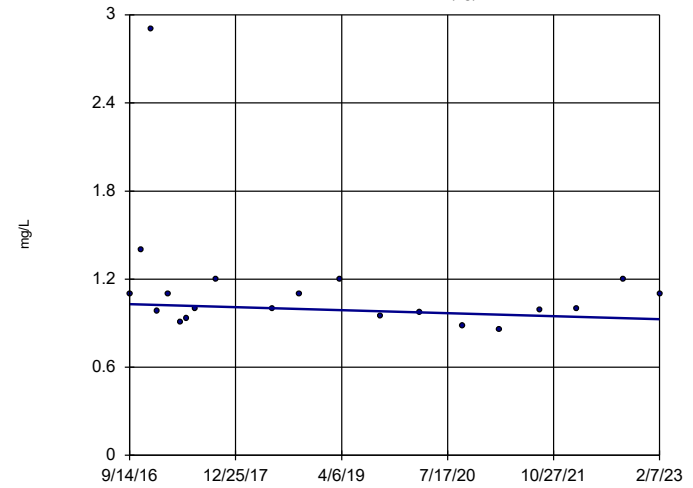


n = 20  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -.27  
 critical = -.81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-21 (bg)

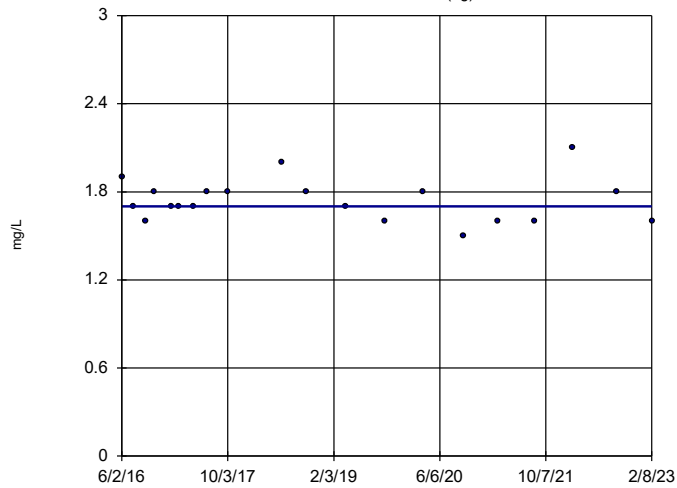


n = 20  
 Slope = -0.01591  
 units per year.  
 Mann-Kendall  
 statistic = -.28  
 critical = -.81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-30I (bg)

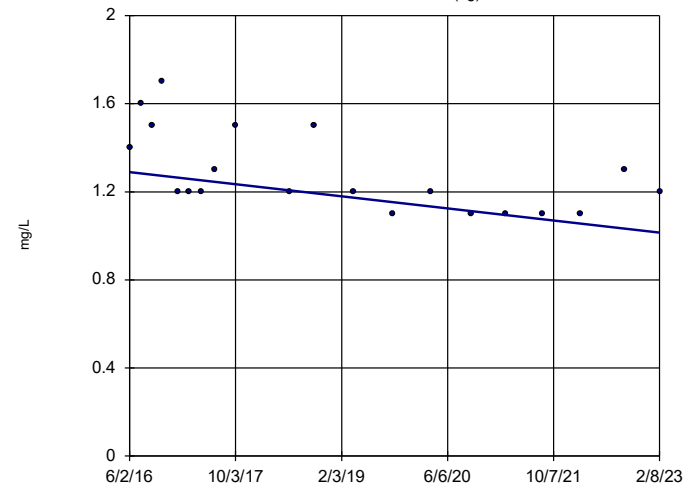


n = 20  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -.21  
 critical = -.81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-3D (bg)

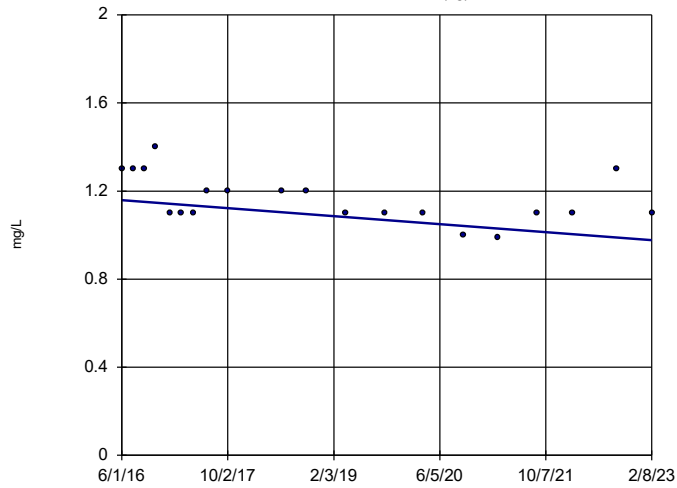


n = 20  
 Slope = -0.04106  
 units per year.  
 Mann-Kendall  
 statistic = -.83  
 critical = -.81  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-3I (bg)

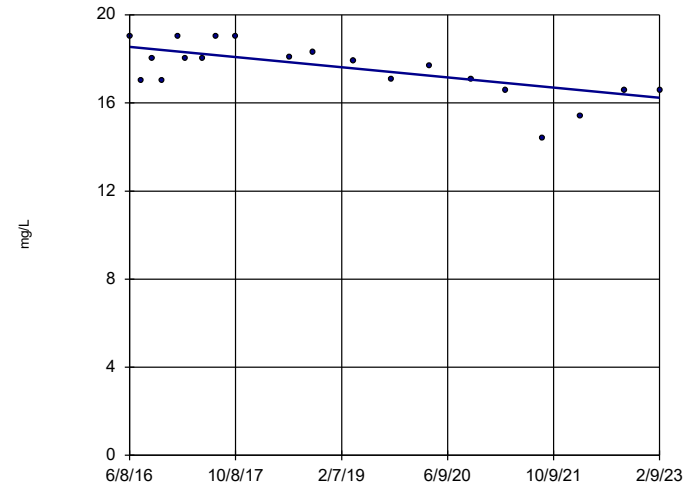


n = 20  
 Slope = -0.02711 units per year.  
 Mann-Kendall statistic = -72  
 critical = -81  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWC-26I

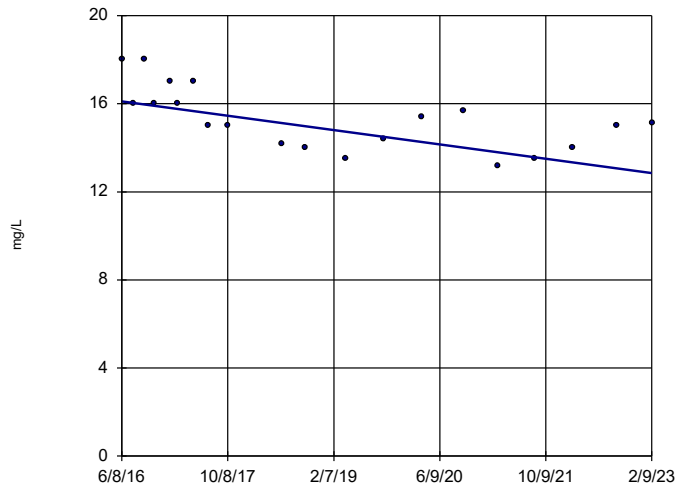


n = 20  
 Slope = -0.3475 units per year.  
 Mann-Kendall statistic = -90  
 critical = -81  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWC-26S

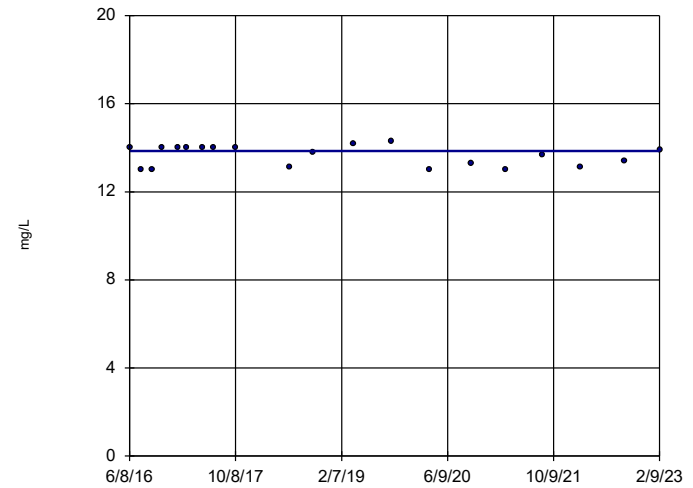


n = 20  
 Slope = -0.4875 units per year.  
 Mann-Kendall statistic = -94  
 critical = -81  
 Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWC-27I

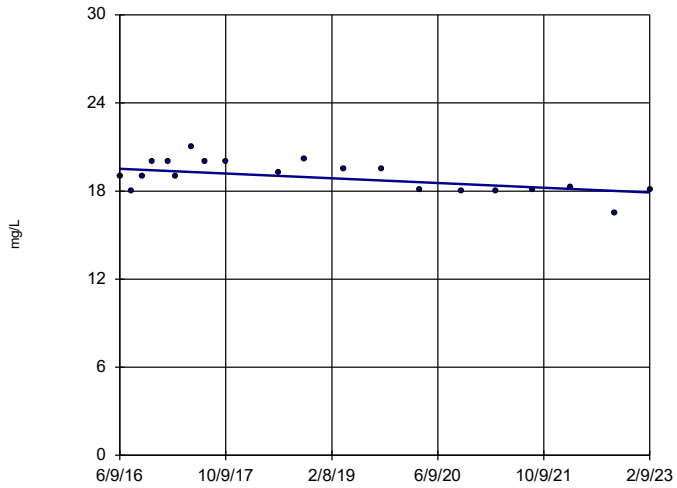


n = 20  
 Slope = 0 units per year.  
 Mann-Kendall statistic = -20  
 critical = -81  
 Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

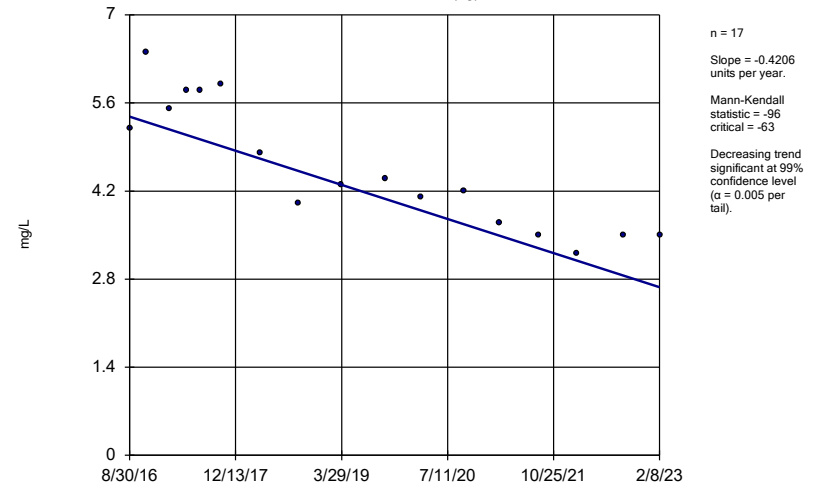
YGWC-28S



Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

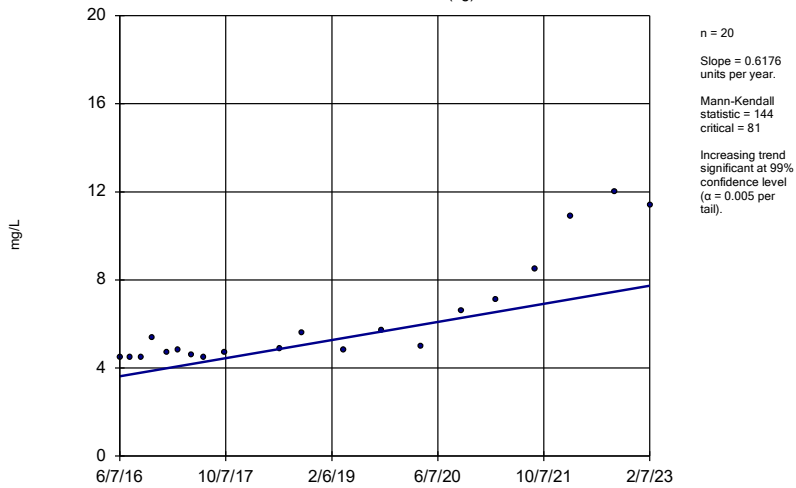
YGWA-47 (bg)



Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

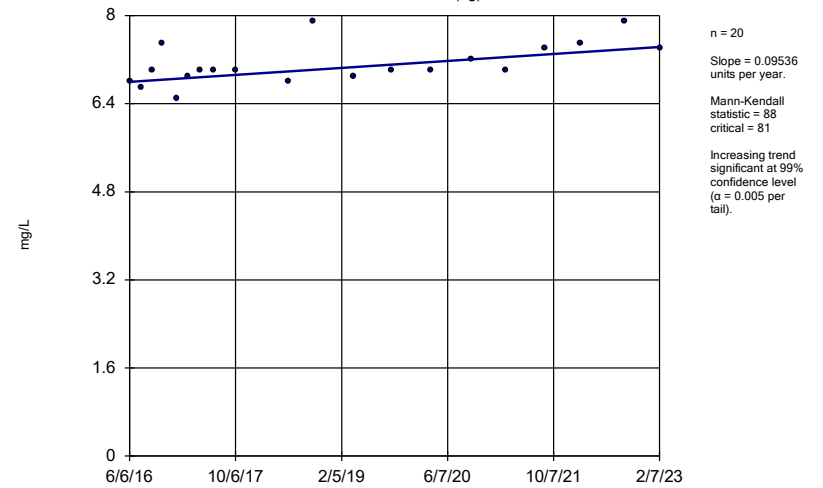
YGWA-17S (bg)



Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

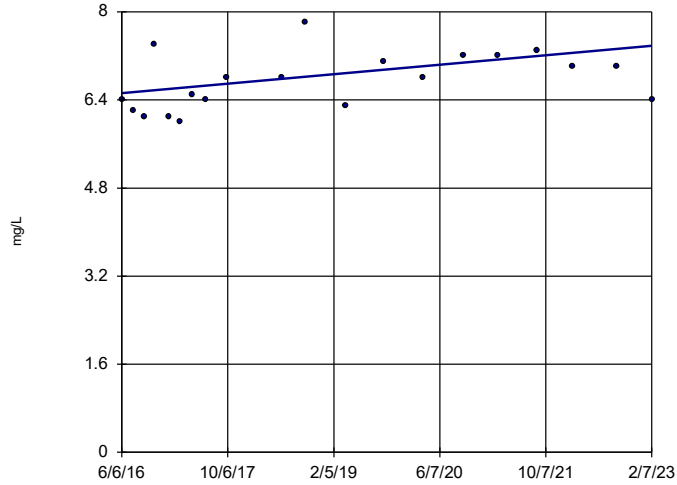
YGWA-18I (bg)



Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-18S (bg)

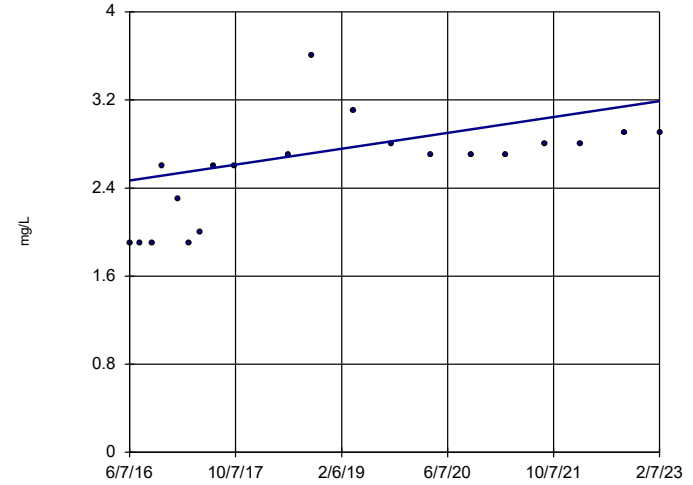


n = 20  
 Slope = 0.1291  
 units per year.  
 Mann-Kendall  
 statistic = 65  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-20S (bg)

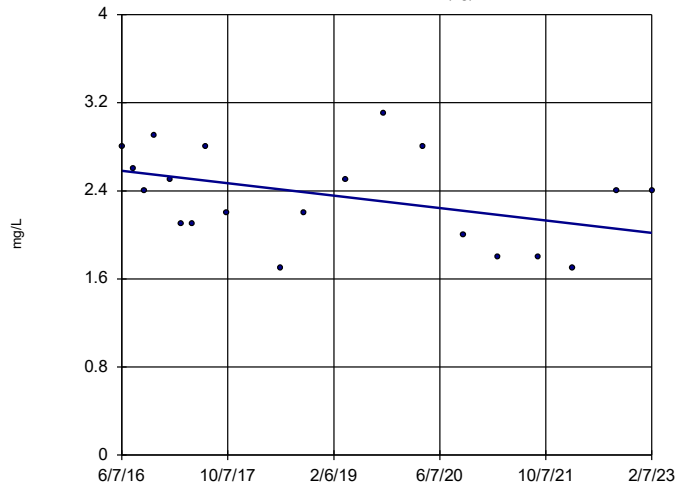


n = 20  
 Slope = 0.1082  
 units per year.  
 Mann-Kendall  
 statistic = 121  
 critical = 81  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-21I (bg)

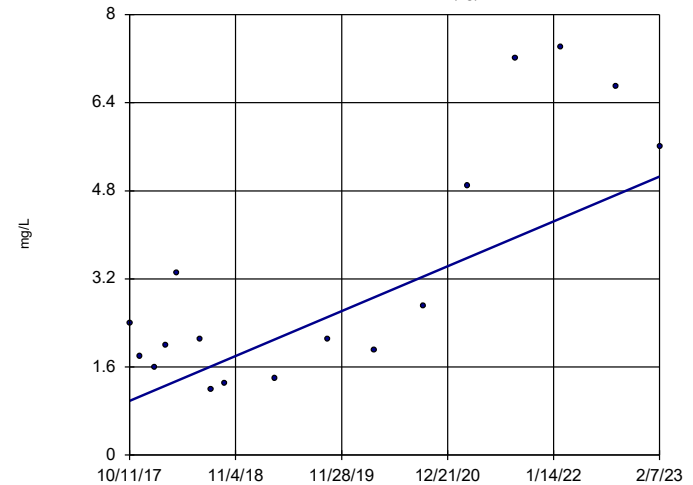


n = 20  
 Slope = -0.08464  
 units per year.  
 Mann-Kendall  
 statistic = -55  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-39 (bg)

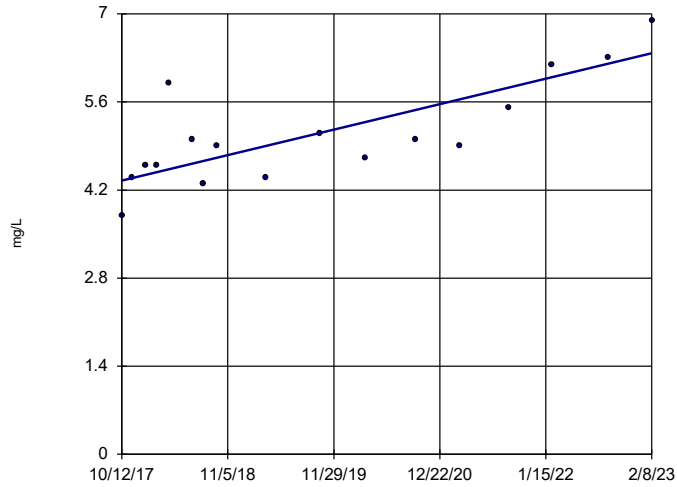


n = 17  
 Slope = 0.764  
 units per year.  
 Mann-Kendall  
 statistic = 61  
 critical = 63  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-40 (bg)

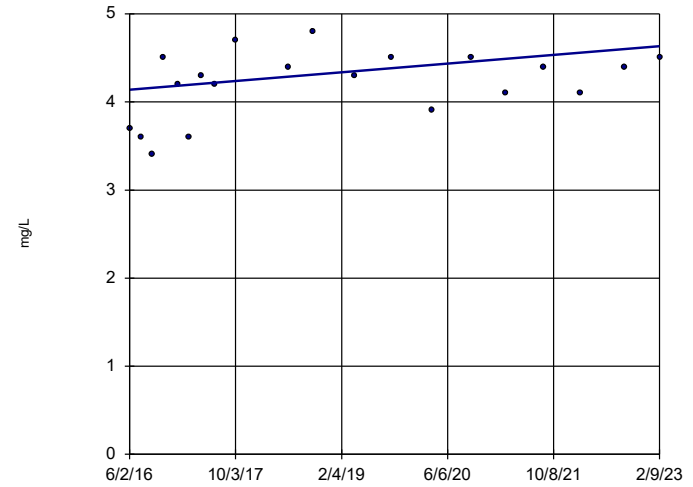


n = 17  
 Slope = 0.38  
 units per year.  
 Mann-Kendall  
 statistic = 82  
 critical = 63  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-41 (bg)

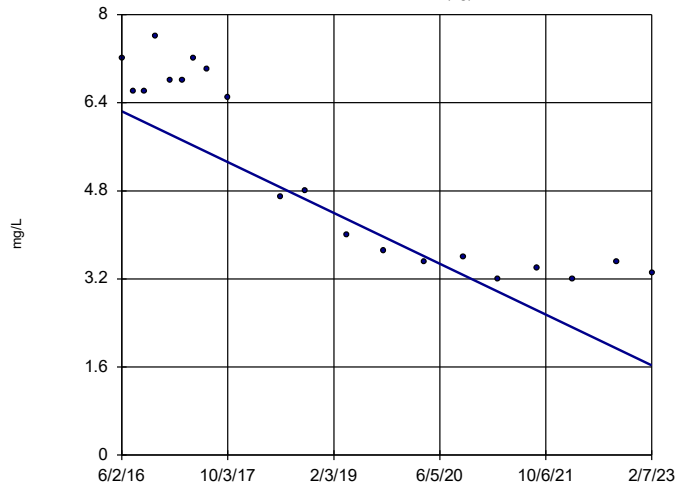


n = 20  
 Slope = 0.07352  
 units per year.  
 Mann-Kendall  
 statistic = 53  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-5D (bg)

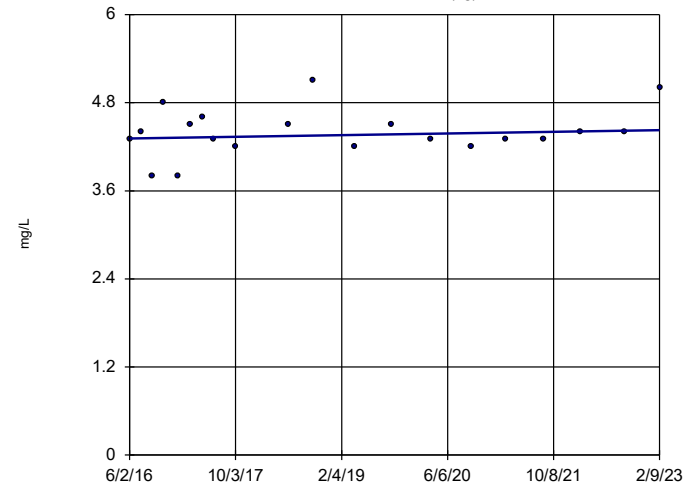


n = 20  
 Slope = -0.6898  
 units per year.  
 Mann-Kendall  
 statistic = -139  
 critical = -81  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-5I (bg)



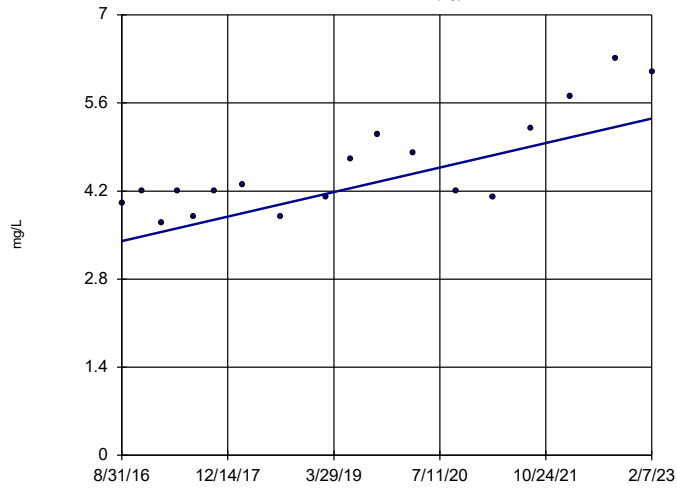
n = 20  
 Slope = 0.01678  
 units per year.  
 Mann-Kendall  
 statistic = 22  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



### Sen's Slope Estimator

GWA-2 (bg)

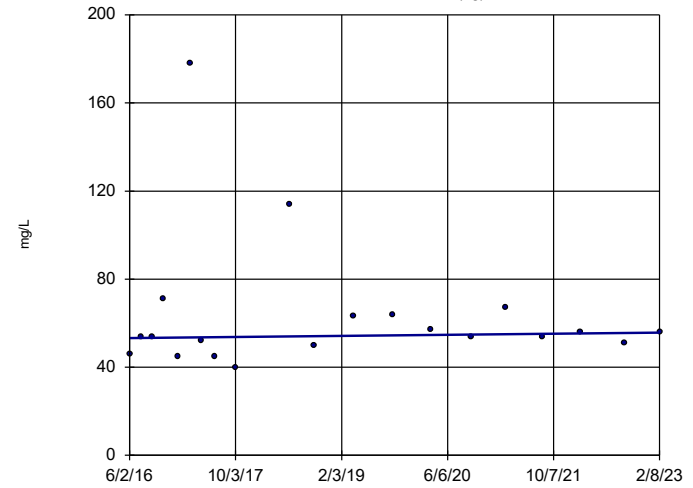


n = 18  
 Slope = 0.3022  
 units per year.  
 Mann-Kendall  
 statistic = 89  
 critical = 68  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-14S (bg)

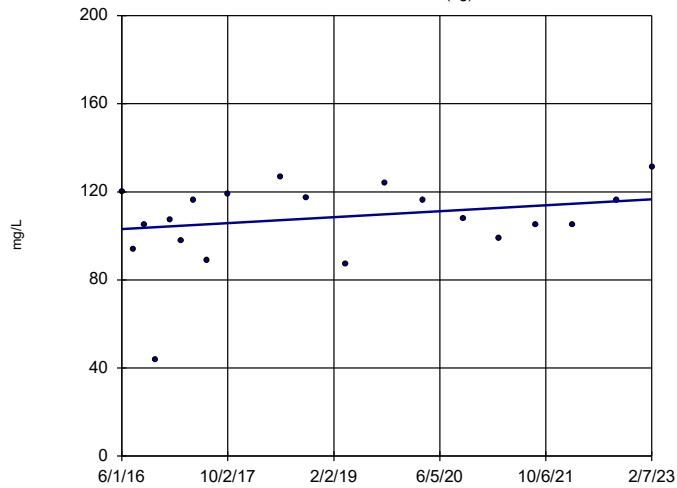


n = 20  
 Slope = 0.3652  
 units per year.  
 Mann-Kendall  
 statistic = 16  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-1D (bg)

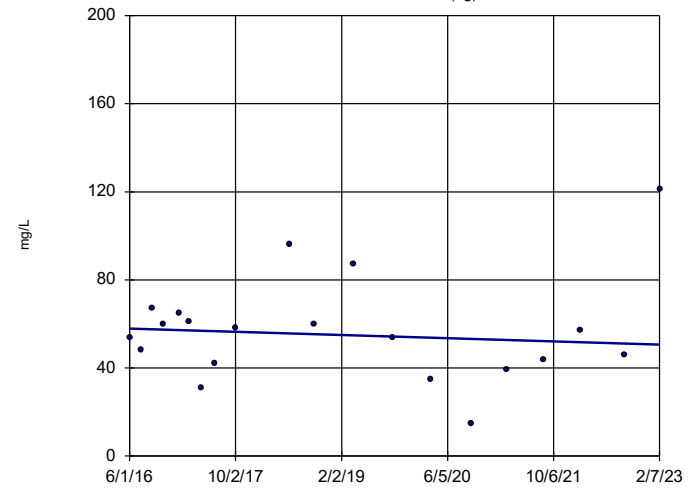


n = 20  
 Slope = 2.029  
 units per year.  
 Mann-Kendall  
 statistic = 32  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-1I (bg)

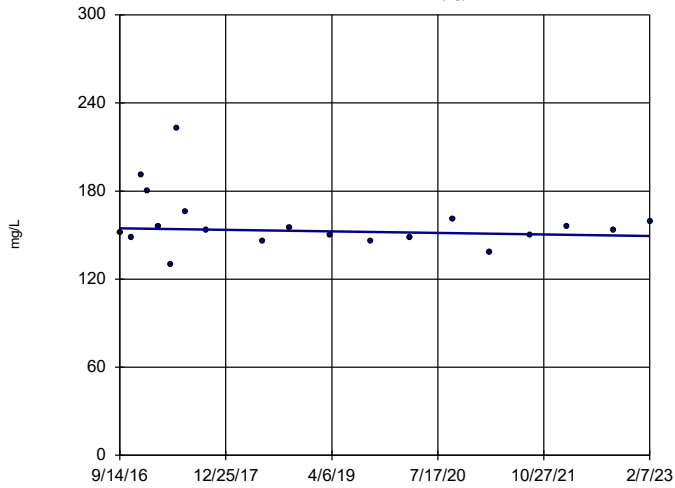


n = 20  
 Slope = -1.086  
 units per year.  
 Mann-Kendall  
 statistic = -18  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-21 (bg)



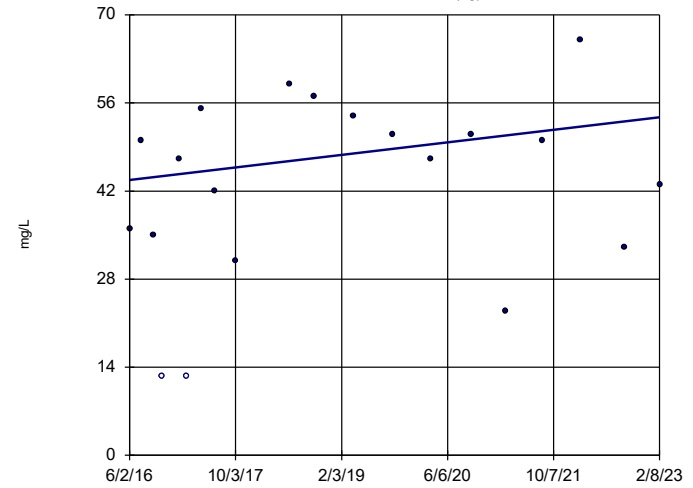
n = 20  
 Slope = -0.8152  
 units per year.  
 Mann-Kendall  
 statistic = -19  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

### Sen's Slope Estimator

YGWA-30I (bg)

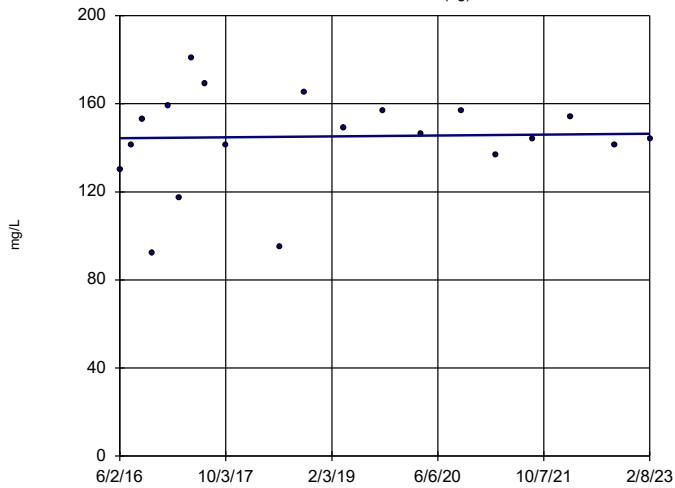


n = 20  
 Slope = 1.488  
 units per year.  
 Mann-Kendall  
 statistic = 24  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-3D (bg)

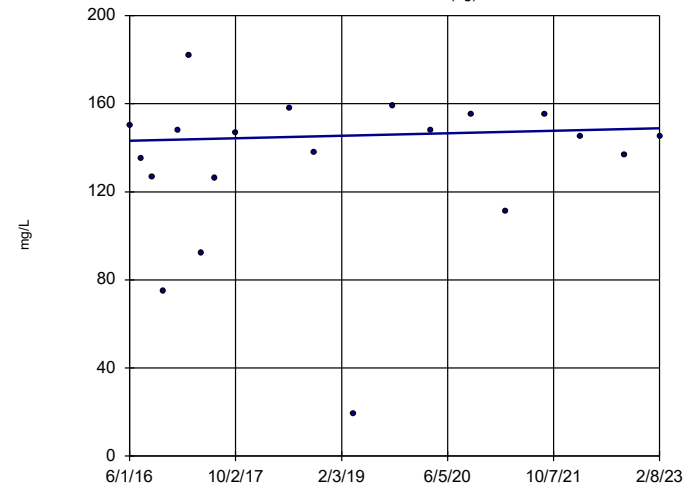


n = 20  
 Slope = 0.3218  
 units per year.  
 Mann-Kendall  
 statistic = 7  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-3I (bg)

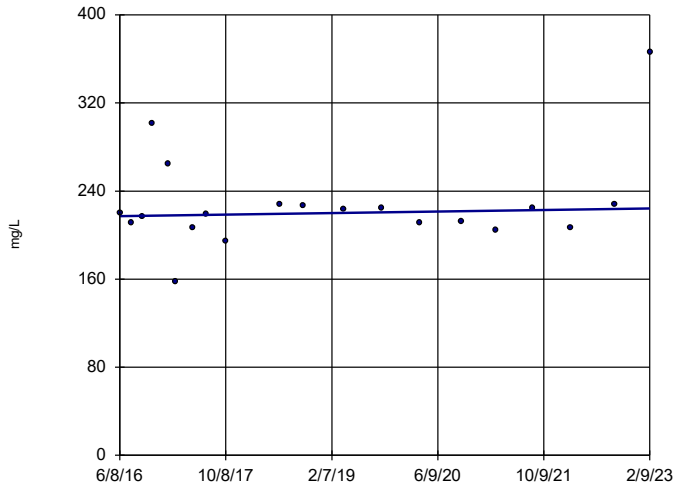


n = 20  
 Slope = 0.862  
 units per year.  
 Mann-Kendall  
 statistic = 9  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWC-26I

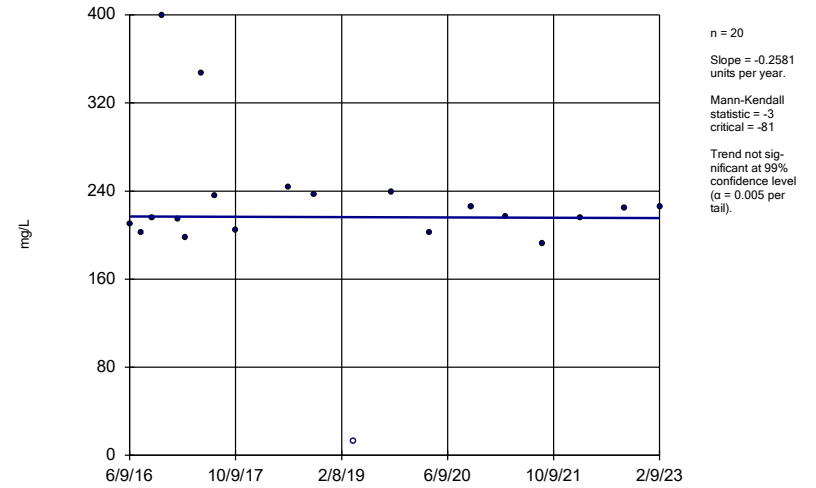


Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

### Sen's Slope Estimator

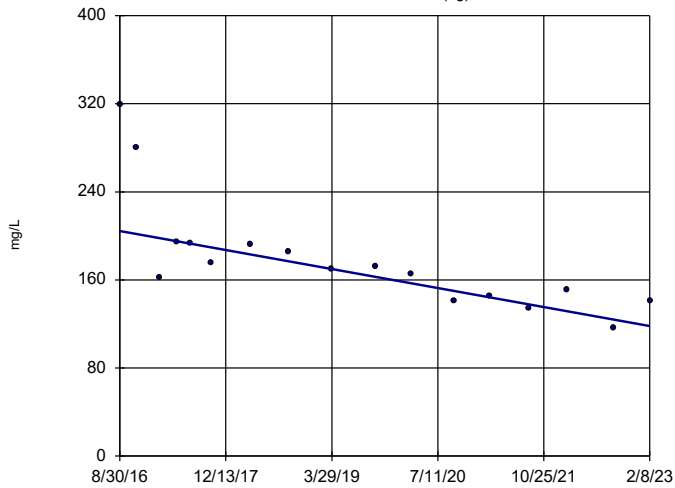
YGWC-28S



Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

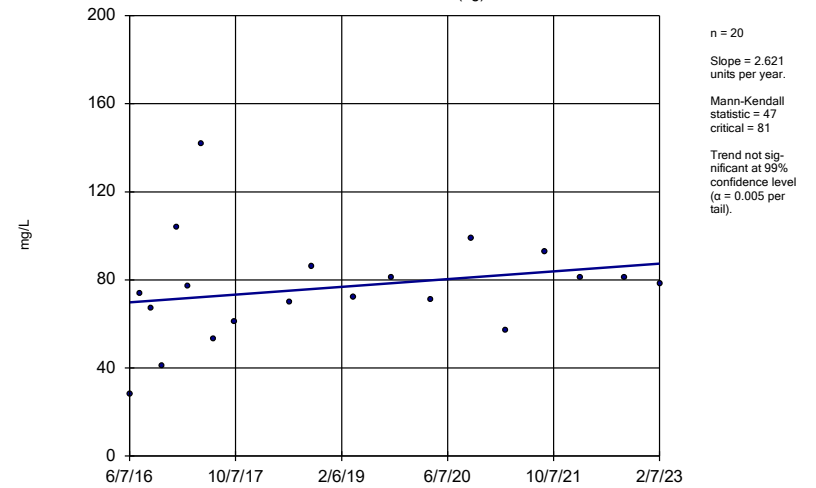
YGWA-47 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

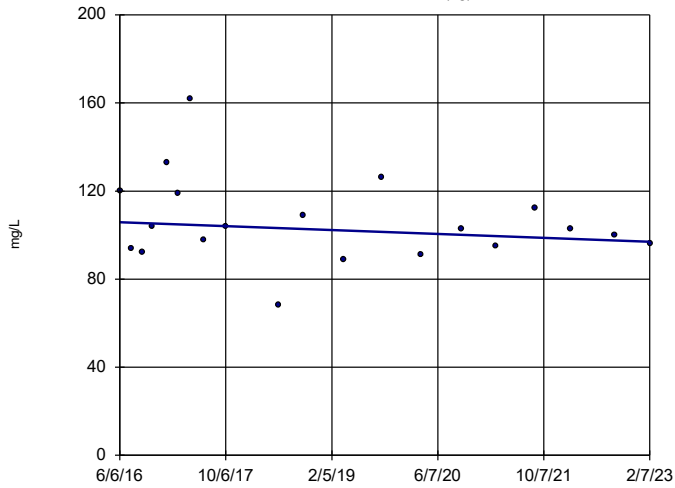
YGWA-17S (bg)



Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-18I (bg)

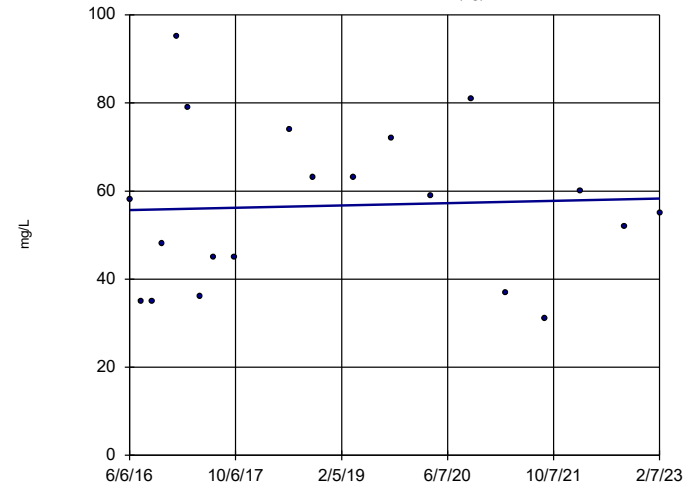


n = 20  
 Slope = -1.319  
 units per year.  
 Mann-Kendall  
 statistic = -26  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-18S (bg)

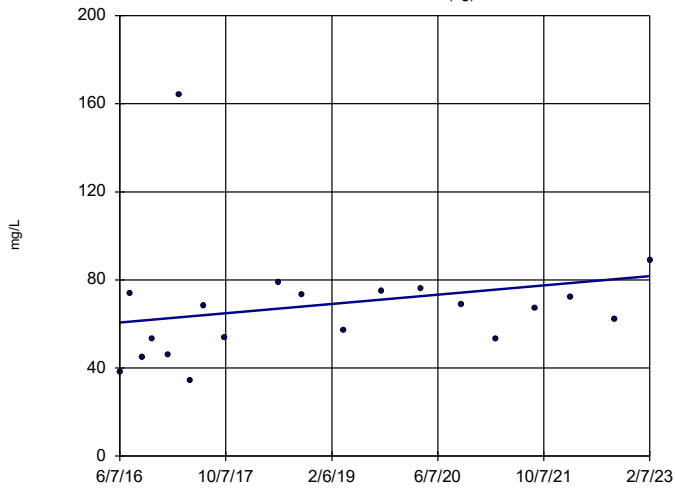


n = 20  
 Slope = 0.3933  
 units per year.  
 Mann-Kendall  
 statistic = 9  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-20S (bg)

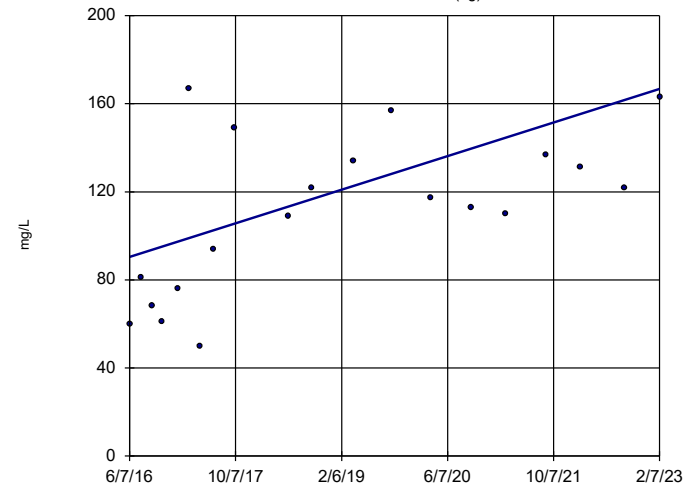


n = 20  
 Slope = 3.156  
 units per year.  
 Mann-Kendall  
 statistic = 51  
 critical = 81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-21I (bg)

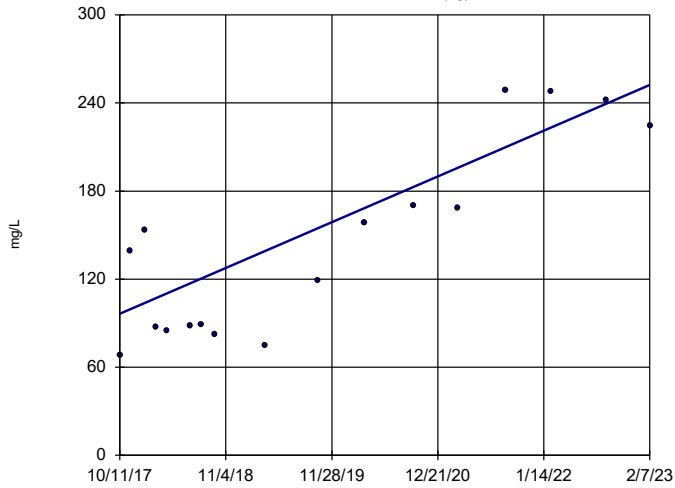


n = 20  
 Slope = 11.42  
 units per year.  
 Mann-Kendall  
 statistic = 85  
 critical = 81  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

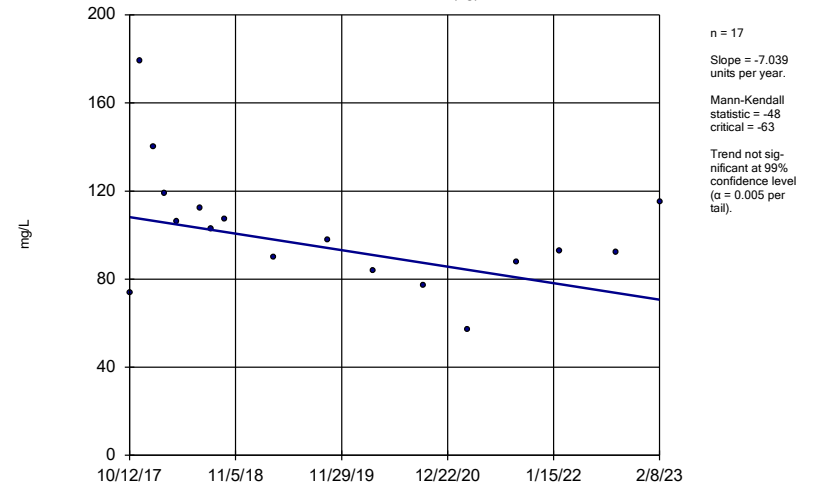
YGWA-39 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

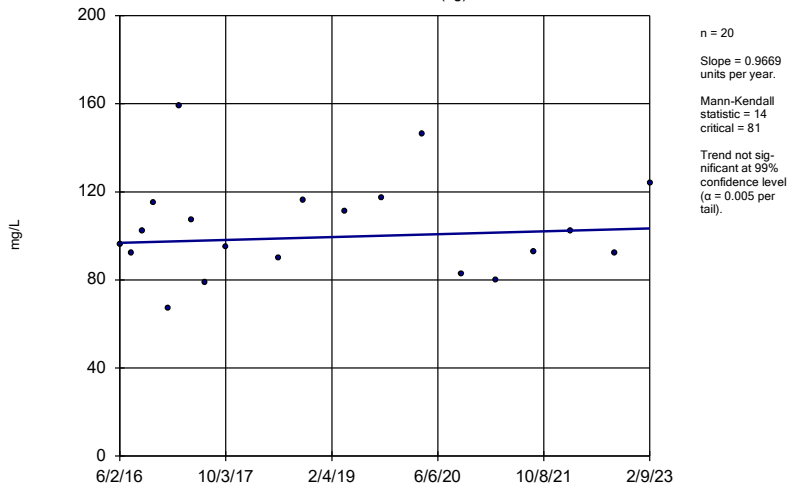
YGWA-40 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

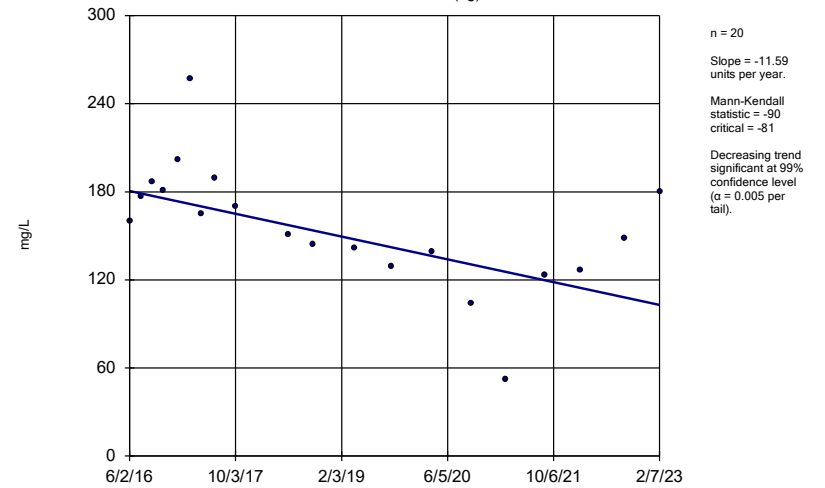
YGWA-41 (bg)



Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

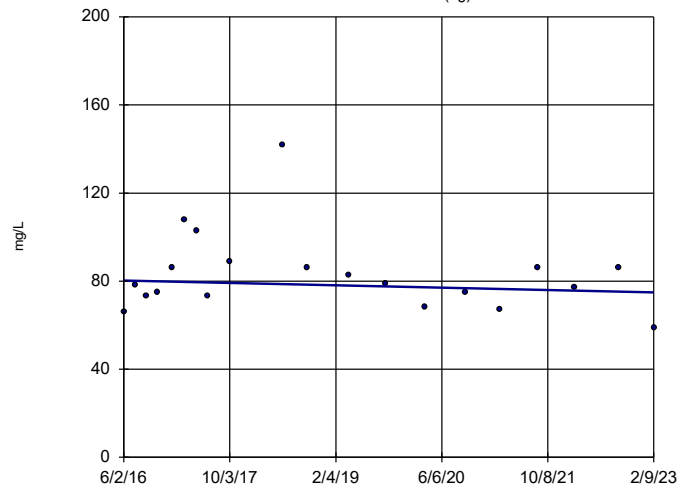
YGWA-5D (bg)



Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:24 AM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

YGWA-5l (bg)

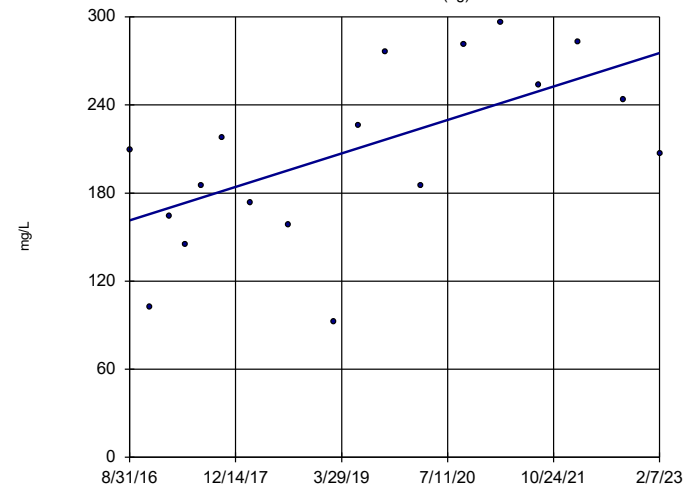


n = 20  
 Slope = -0.8043  
 units per year.  
 Mann-Kendall  
 statistic = -16  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:25 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Sen's Slope Estimator

GWA-2 (bg)



n = 18  
 Slope = 17.72  
 units per year.  
 Mann-Kendall  
 statistic = 66  
 critical = 68  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids Analysis Run 4/28/2023 6:25 AM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE F.

# Upper Tolerance Limits Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:28 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a 391	n/a	n/a	87.98	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 439	n/a	n/a	74.72	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.21	n/a	n/a	n/a	n/a 439	n/a	n/a	2.506	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0011	n/a	n/a	n/a	n/a 423	n/a	n/a	79.43	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a 423	n/a	n/a	94.56	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a 391	n/a	n/a	80.05	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a 433	n/a	n/a	69.05	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	6.92	n/a	n/a	n/a	n/a 418	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a 438	n/a	n/a	64.16	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a 393	n/a	n/a	86.01	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a 418	n/a	n/a	25.84	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a 347	n/a	n/a	91.93	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a 382	n/a	n/a	60.99	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a 421	n/a	n/a	92.64	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a 357	n/a	n/a	97.2	n/a	n/a	NaN	NP Inter(NDs)



FIGURE G.

<b>YATES ASH POND 2 GWPS</b>				
<b>Constituent Name</b>	<b>MCL</b>	<b>CCR-Rule Specified</b>	<b>Background Limit</b>	<b>GWPS</b>
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*\*Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residual*

*\*GWPS = Groundwater Protection Standard*

FIGURE H.

# Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	No	19	0.002637	0.0008647	84.21	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	19	0.002858	0.000426	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.0014	0.006	No	19	0.002775	0.0006964	89.47	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	19	0.002858	0.0006194	94.74	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29IA	0.003	0.0013	0.006	No	19	0.002911	0.00039	94.74	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	23	0.004791	0.0006941	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	23	0.0048	0.0006796	91.3	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00069	0.01	No	23	0.003454	0.002085	60.87	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	23	0.004865	0.0006464	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	23	0.004874	0.0006047	95.65	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.0007	0.01	No	23	0.003466	0.002081	60.87	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29IA	0.005	0.0033	0.01	No	23	0.004926	0.0003545	95.65	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06563	0.06194	2	No	23	0.06379	0.003527	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02854	0.02623	2	No	23	0.02739	0.002204	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07463	0.0667	2	No	23	0.07067	0.00758	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27S	0.102	0.08549	2	No	23	0.09249	0.01787	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08871	0.08122	2	No	23	0.08496	0.007161	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2208	0.1972	2	No	23	0.2048	0.03598	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29IA	0.0741	0.057	2	No	23	0.07294	0.03173	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0002	0.000093	0.004	No	21	0.0002668	0.0004126	9.524	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.00022	0.00012	0.004	No	21	0.0003555	0.0004811	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	21	0.0004608	0.0001241	90.48	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0002765	0.00014	0.005	No	21	0.0002205	0.0001386	14.29	None	sqrt(x)	0.01	Param.
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	21	0.000499	0.00004364	95.24	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29IA	0.00029	0.00019	0.005	No	21	0.0003586	0.0003776	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.005	0.00067	0.1	No	21	0.003545	0.002101	61.9	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002057	0.001062	0.1	No	21	0.002809	0.001791	28.57	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	21	0.005333	0.001528	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	No	21	0.004688	0.002859	71.43	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	21	0.004353	0.001624	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0034	0.1	No	21	0.004285	0.001609	80.95	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29IA	0.005	0.0005	0.1	No	21	0.004786	0.000982	95.24	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002505	0.001929	0.035	No	23	0.002217	0.0005507	4.348	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.014	0.003676	0.035	No	23	0.01653	0.02472	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.002443	0.002109	0.035	No	23	0.002257	0.0003488	4.348	None	x^2	0.01	Param.
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	23	0.004801	0.000955	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0011	0.00085	0.035	No	23	0.001104	0.0004649	8.696	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29IA	0.005	0.00094	0.035	No	23	0.004059	0.001861	73.91	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.024	0.4815	6.92	No	22	0.7528	0.5056	4.545	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8233	0.533	6.92	No	23	0.6781	0.2775	4.348	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.783	2.556	6.92	No	23	3.17	1.173	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.993	0.603	6.92	No	23	0.798	0.3729	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.261	6.92	No	23	0.6377	0.3543	4.348	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9088	0.5189	6.92	No	23	0.7138	0.3728	4.348	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29IA	1.064	0.6519	6.92	No	23	0.8577	0.3935	4.348	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	24	0.08417	0.01976	41.67	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	No	24	0.1254	0.09215	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.07	4	No	24	0.1913	0.1134	50	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.1761	0.09377	4	No	24	0.1544	0.0975	16.67	Kaplan-Meier	x^(1/3)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.29	0.078	4	No	24	0.165	0.1031	20.83	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2412	0.1576	4	No	24	0.2054	0.09014	8.333	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-29IA	0.17	0.059	4	No	24	0.1445	0.1057	29.17	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	19	0.0009005	0.000298	89.47	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.00008	0.015	No	19	0.0007553	0.0004209	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00037	0.015	No	19	0.0008104	0.0003457	68.42	None	No	0.01	NP (NDs)

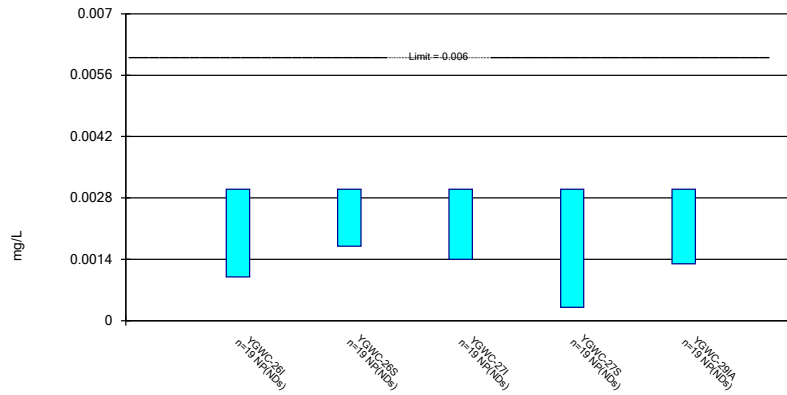
# Confidence Intervals - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 4/28/2023, 6:32 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-28S	0.001	0.00007	0.015	No	19	0.0007534	0.000424	73.68	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29IA	0.001	0.00016	0.015	No	19	0.000859	0.0003349	84.21	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007325	0.006675	0.04	No	23	0.007	0.0006216	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009857	0.007752	0.04	No	23	0.008804	0.002013	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	23	0.02748	0.008339	91.3	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.00706	0.00667	0.04	No	23	0.006865	0.0003725	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	23	0.02893	0.00515	95.65	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29IA	0.0066	0.0053	0.04	No	23	0.006583	0.002369	4.348	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	17	0.0001825	0.00004948	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	17	0.0001832	0.00004742	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	17	0.0001823	0.00005001	88.24	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	No	17	0.0001812	0.00005133	82.35	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	17	0.0001911	0.00003687	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	17	0.0001913	0.0000359	94.12	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29IA	0.0002	0.000047	0.002	No	17	0.0001815	0.00005216	88.24	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	No	23	0.005322	0.004235	43.48	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	23	0.004665	0.004375	39.13	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00083	0.1	No	23	0.007588	0.004151	73.91	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29IA	0.01	0.00099	0.1	No	23	0.00921	0.002619	91.3	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.003091	0.002049	0.05	No	21	0.0027	0.001104	9.524	None	ln(x)	0.01	Param.
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	21	0.004252	0.001592	80.95	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	21	0.004819	0.0008292	95.24	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	21	0.00481	0.0008729	95.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	17	0.0008889	0.0003135	88.24	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	17	0.0006841	0.0004409	64.71	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-29IA	0.001	0.00021	0.002	No	17	0.0009535	0.0001916	94.12	None	No	0.01	NP (NDs)

### Non-Parametric Confidence Interval

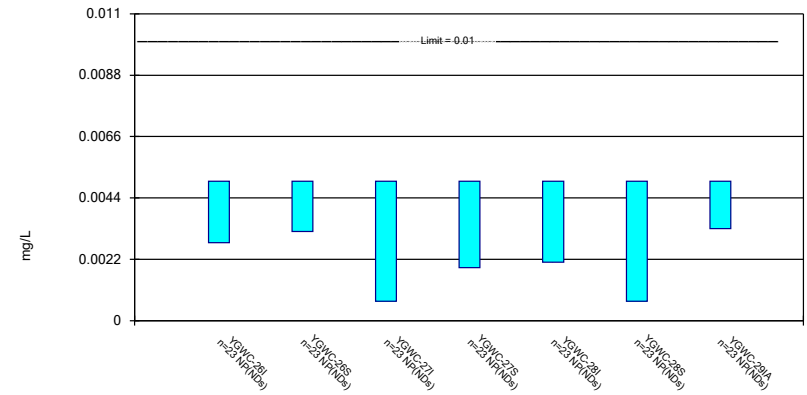
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Non-Parametric Confidence Interval

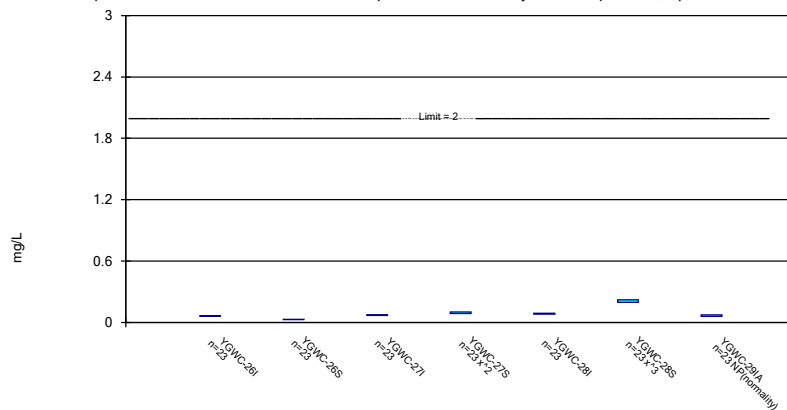
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Parametric and Non-Parametric (NP) Confidence Interval

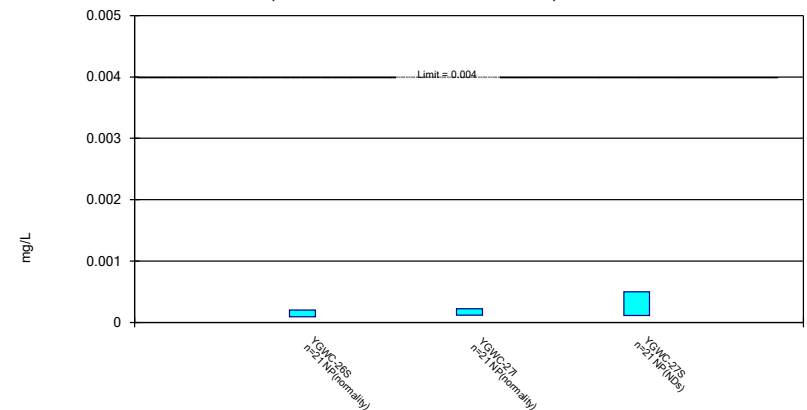
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Non-Parametric Confidence Interval

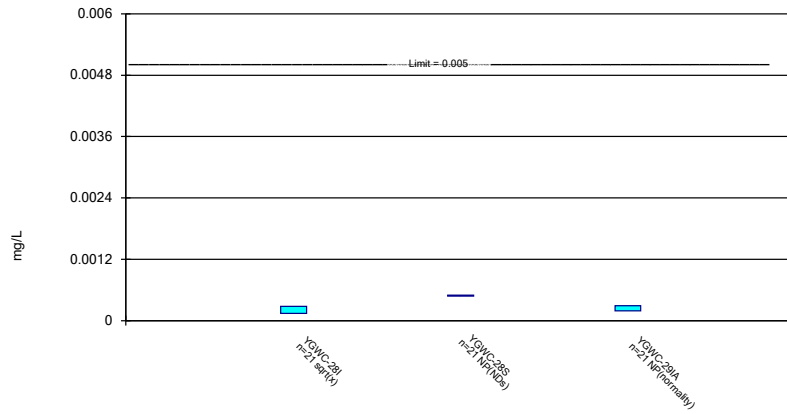
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

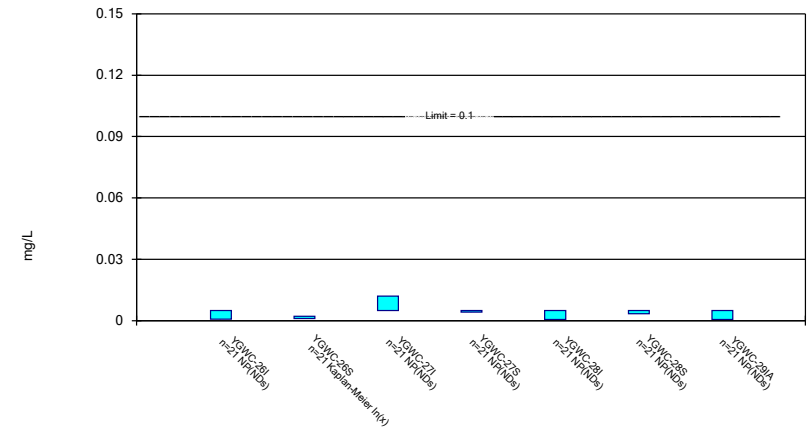
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cadmium Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

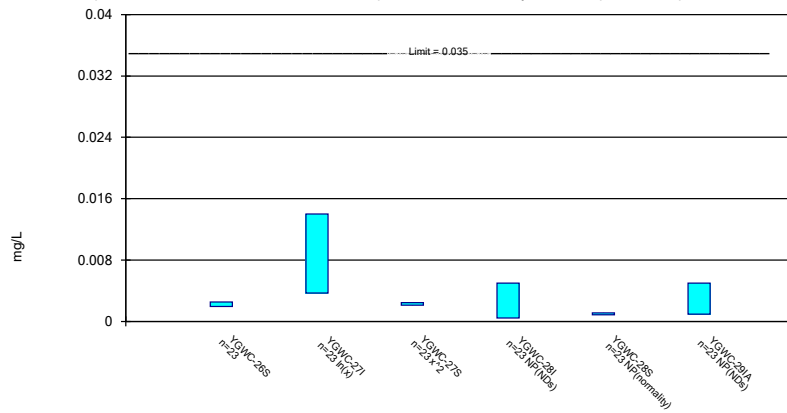
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

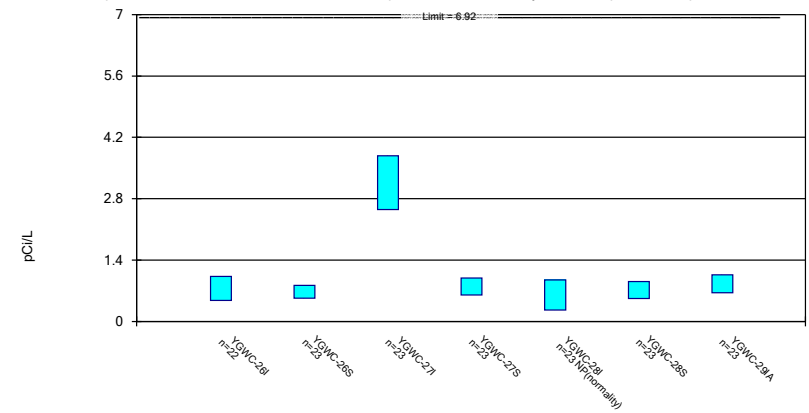
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

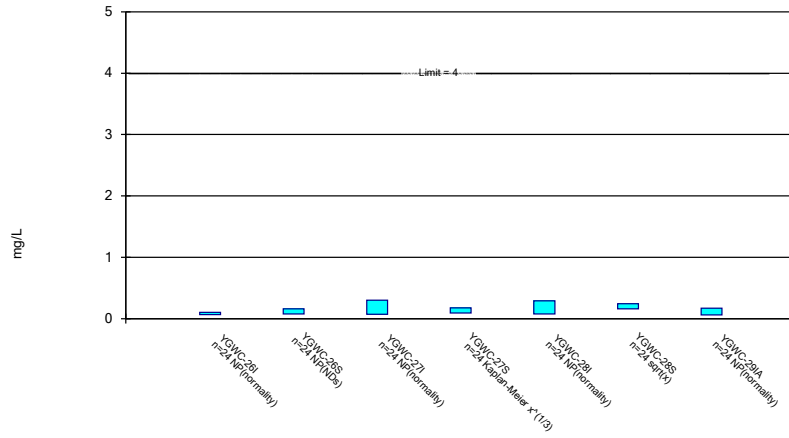
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Parametric and Non-Parametric (NP) Confidence Interval

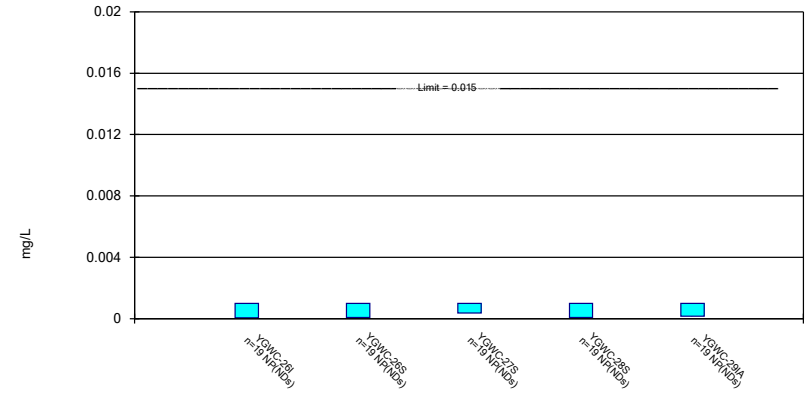
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Non-Parametric Confidence Interval

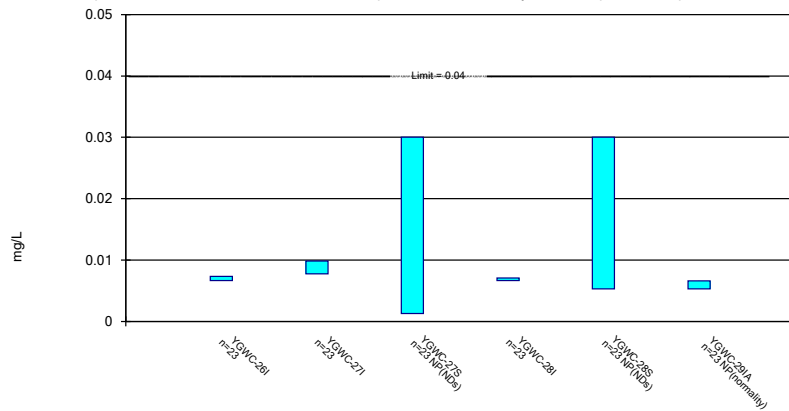
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Parametric and Non-Parametric (NP) Confidence Interval

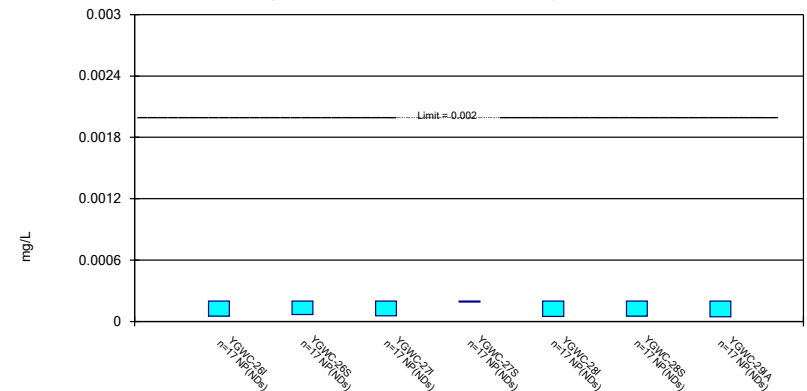
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

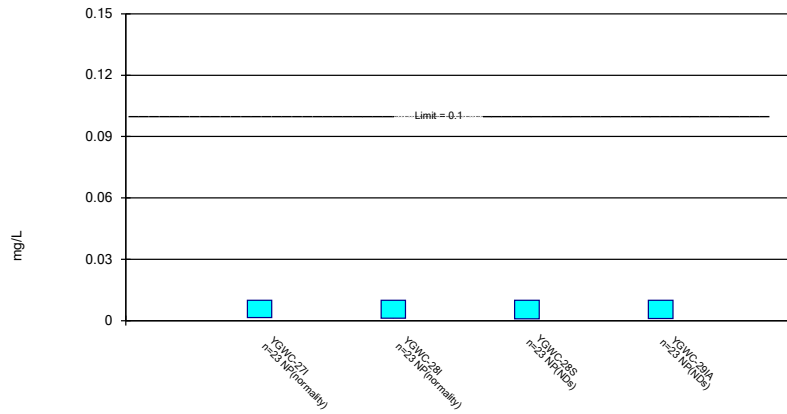


Constituent: Mercury Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



### Non-Parametric Confidence Interval

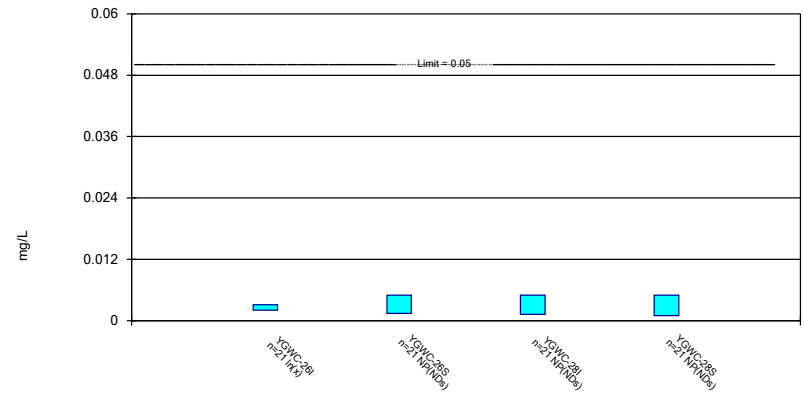
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Parametric and Non-Parametric (NP) Confidence Interval

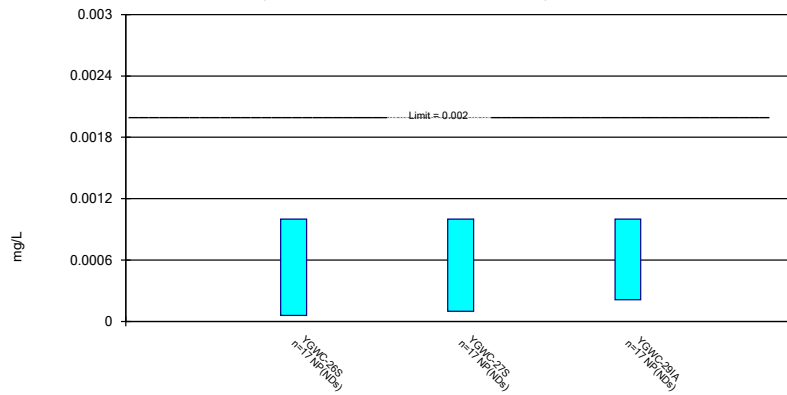
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 4/28/2023 6:31 AM View: Appendix IV  
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-29IA
6/8/2016	<0.003	<0.003	<0.003	<0.003	
6/9/2016					<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003	
8/2/2016					<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003	
9/21/2016					<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003	<0.003
1/18/2017	<0.003	<0.003	<0.003		
1/19/2017				<0.003	<0.003
2/21/2017	<0.003	<0.003			
2/22/2017				<0.003	<0.003
2/23/2017			<0.003		
5/3/2017		<0.003			
5/8/2017	<0.003		<0.003	<0.003	<0.003
6/30/2017			<0.003	<0.003	
7/5/2017					<0.003
7/10/2017	<0.003	<0.003			
3/29/2018			<0.003	<0.003	<0.003
3/30/2018	<0.003	<0.003			
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)	<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003	
2/12/2021					<0.003
3/2/2021		<0.003			
3/3/2021	<0.003		<0.003	<0.003	<0.003
8/19/2021		<0.003			
8/20/2021	<0.003		<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003		
8/31/2022	0.001 (J)	<0.003			
9/1/2022			<0.003	<0.003	<0.003
2/8/2023					<0.003
2/9/2023	<0.003	<0.003	0.0014 (J)	<0.003	
Mean	0.002637	0.002858	0.002775	0.002858	0.002911
Std. Dev.	0.0008647	0.000426	0.0006964	0.0006194	0.00039
Upper Lim.	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.001	0.0017	0.0014	0.0003	0.0013

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023							<0.005
2/9/2023	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	<0.005	
Mean	0.004791	0.0048	0.003454	0.004865	0.004874	0.003466	0.004926
Std. Dev.	0.0006941	0.0006796	0.002085	0.0006464	0.0006047	0.002081	0.0003545
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
Lower Lim.	0.0028	0.0032	0.00069	0.0019	0.0021	0.0007	0.0033

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					
9/1/2022			0.076	0.049	0.068	0.2	0.057
2/8/2023							0.098
2/9/2023	0.058	0.028	0.076	0.049	0.07	0.22	
Mean	0.06379	0.02739	0.07067	0.09249	0.08496	0.2048	0.07294
Std. Dev.	0.003527	0.002204	0.00758	0.01787	0.007161	0.03598	0.03173
Upper Lim.	0.06563	0.02854	0.07463	0.102	0.08871	0.2208	0.0741

# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
Lower Lim.	0.06194	0.02623	0.0667	0.08549	0.08122	0.1972	0.057

# Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S
6/8/2016	<0.003	<0.003	<0.0005
8/1/2016	0.0002 (J)	<0.003	<0.0005
9/20/2016	0.0001 (J)	9E-05 (J)	<0.0005
11/7/2016	0.0001 (J)	0.0001 (J)	<0.0005
1/18/2017	0.0002 (J)	0.0002 (J)	
1/19/2017			<0.0005
2/21/2017	0.0002 (J)		
2/22/2017			<0.0005
2/23/2017		0.0002 (J)	
5/3/2017	0.0002 (J)		
5/8/2017		0.0002 (J)	<0.0005
6/30/2017		0.0002 (J)	<0.0005
7/10/2017	0.0002 (J)		
3/29/2018		<0.003	<0.0005
3/30/2018	<0.003		
2/27/2019	0.00018 (J)	0.00022 (J)	<0.0005
4/1/2019		0.00022 (J)	<0.0005
4/2/2019	0.00015 (J)		
9/25/2019	0.00011 (J)		
9/26/2019		0.0002 (J)	<0.0005
2/13/2020	0.00015 (J)	0.00021 (J)	<0.0005
3/19/2020	0.00012 (J)		
3/20/2020		0.00023 (J)	<0.0005
9/24/2020	8.5E-05 (J)	0.00019 (J)	<0.0005
2/10/2021	0.00013 (J)	0.00014 (J)	6.6E-05 (J)
3/2/2021	0.00016 (J)		
3/3/2021		0.00013 (J)	<0.0005
8/19/2021	8.2E-05 (J)		
8/20/2021		8.6E-05 (J)	0.00011 (J)
2/8/2022			<0.0005
2/10/2022	9.3E-05 (J)	0.00013 (J)	
8/31/2022	7.4E-05 (J)		
9/1/2022		0.00012 (J)	<0.0005
2/9/2023	6.8E-05 (J)	0.0001 (J)	<0.0005
Mean	0.0002668	0.0003555	0.0004608
Std. Dev.	0.0004126	0.0004811	0.0001241
Upper Lim.	0.0002	0.00022	0.0005
Lower Lim.	9.3E-05	0.00012	0.00011

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IA
6/9/2016	0.00055 (J)	<0.0005	<0.0025
8/2/2016	0.0001 (J)	<0.0005	0.0001 (J)
9/21/2016	0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016		<0.0005	0.0002 (J)
11/8/2016	9E-05 (J)		
1/18/2017	9E-05 (J)	<0.0005	
1/19/2017			0.0001 (J)
2/21/2017		<0.0005	
2/22/2017	0.0001 (J)		0.0001 (J)
5/5/2017	9E-05 (J)	<0.0005	
5/8/2017			0.0002 (J)
7/5/2017	0.0002 (J)		0.0002 (J)
7/7/2017		<0.0005	
3/29/2018			<0.0025
3/30/2018	<0.0005	<0.0005	
2/27/2019	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	0.00043 (J)		0.00022 (J)
4/2/2019		<0.0005	
9/25/2019			0.00024 (J)
9/26/2019	<0.0005	<0.0005	
2/13/2020	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0.00016 (J)	<0.0005	
3/20/2020			0.00022 (J)
9/24/2020	0.00027 (J)	<0.0005	0.00033 (J)
2/11/2021	0.00052 (J)		
2/12/2021		0.00048 (J)	<0.0025
3/3/2021	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	0.00033 (J)	<0.0005	0.00019 (J)
9/1/2022	0.00017 (J)	<0.0005	0.0002 (J)
2/8/2023			0.00028 (J)
2/9/2023	<0.0005	<0.0005	
Mean	0.0002205	0.000499	0.0003586
Std. Dev.	0.0001386	4.364E-06	0.0003776
Upper Lim.	0.0002765	0.0005	0.00029
Lower Lim.	0.00014	0.00048	0.00019



# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023							<0.005
2/9/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	
Mean	0.003545	0.002809	0.005333	0.004688	0.004353	0.004285	0.004786
Std. Dev.	0.002101	0.001791	0.001528	0.002859	0.001624	0.001609	0.000982
Upper Lim.	0.005	0.002057	0.012	0.005	0.005	0.005	0.005
Lower Lim.	0.00067	0.001062	0.005	0.0041	0.0005	0.0034	0.0005

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
6/8/2016	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016				0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016				<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016				<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016				<0.005		
1/18/2017	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017			0.0024 (J)			<0.005
2/21/2017	0.0022 (J)				0.0011 (J)	
2/22/2017			0.0023 (J)	<0.005		<0.005
2/23/2017		0.002 (J)				
5/3/2017	0.002 (J)					
5/5/2017				<0.005	0.0012 (J)	
5/8/2017		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017		0.0044 (J)	0.0022 (J)			
7/5/2017				<0.005		0.0003 (J)
7/7/2017					0.0012 (J)	
7/10/2017	0.002 (J)					
3/29/2018		0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005			<0.005	<0.005	
6/11/2018						<0.005
6/12/2018			0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	0.0017 (J)	0.092				
10/2/2018	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018				<0.005	0.0013 (J)	
2/27/2019	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019		0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	0.0022 (J)				0.0011 (J)	
9/25/2019	0.0033 (J)					<0.005
9/26/2019		0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020	0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020		0.014	0.0022 (J)			<0.005
9/24/2020	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021				<0.005		
2/12/2021					<0.005	0.00094 (J)
3/2/2021	0.0021 (J)					
3/3/2021		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021	0.0017 (J)					
8/20/2021		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022			0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	0.0026 (J)	0.0051				
8/31/2022	0.0026 (J)					
9/1/2022		0.0096	0.0015 (J)	<0.005	0.00071 (J)	<0.005
2/8/2023						0.0053
2/9/2023	0.0017 (J)	0.0083	0.0015 (J)	<0.005	0.00074 (J)	
Mean	0.002217	0.01653	0.002257	0.004801	0.001104	0.004059
Std. Dev.	0.0005507	0.02472	0.0003488	0.000955	0.0004649	0.001861
Upper Lim.	0.002505	0.014	0.002443	0.005	0.0011	0.005

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
Lower Lim.	0.001929	0.003676	0.002109	0.00042	0.00085	0.00094

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.53	<1.9	3.42	1.49	<2.15	<1.86	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	0.445 (U)
2/8/2023							0.963 (U)
2/9/2023	1.05 (U)	0.46 (U)	2.56	0.348 (U)	0.164 (U)	0.733 (U)	
Mean	0.7528	0.6781	3.17	0.798	0.6377	0.7138	0.8577
Std. Dev.	0.5056	0.2775	1.173	0.3729	0.3543	0.3728	0.3935
Upper Lim.	1.024	0.8233	3.783	0.993	0.948	0.9088	1.064

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
Lower Lim.	0.4815	0.533	2.556	0.603	0.261	0.5189	0.6519

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.3	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.3 (*)	<0.1 (*)		0.27 (J)	<0.3 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.3 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.3 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.3 (*)		<0.3 (*)
2/23/2017			<0.3 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.3 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.3 (*)		<0.3 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.3 (*)			<0.3 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.3	0.49			<0.3
3/30/2018	<0.1	0.35			<0.3	<0.3	
6/11/2018							<0.3
6/12/2018				0.037 (J)	<0.3	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.3				
10/2/2018	<0.1	<0.1	<0.3	<0.1			<0.3
10/3/2018					<0.3	0.31	
2/27/2019	<0.1	<0.1	<0.3	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.3	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.3	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					
9/1/2022			0.1	0.12	0.11	0.16	0.091 (J)
2/8/2023							0.092 (J)

# Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV  
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
2/9/2023	0.088 (J)	0.07 (J)	0.1	0.12	0.14	0.18	
Mean	0.08417	0.1254	0.1913	0.1544	0.165	0.2054	0.1445
Std. Dev.	0.01976	0.09215	0.1134	0.0975	0.1031	0.09014	0.1057
Upper Lim.	0.1	0.16	0.3	0.1761	0.29	0.2412	0.17
Lower Lim.	0.064	0.076	0.07	0.09377	0.078	0.1576	0.059

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28S	YGWC-29IA
6/8/2016	<0.001	<0.001	<0.001 (*)		
6/9/2016				<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001		
8/2/2016				<0.001	<0.001
9/20/2016	<0.001	<0.001	0.0002 (J)		
9/21/2016				<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001		<0.001	
1/19/2017			<0.001		<0.001
2/21/2017	<0.001	<0.001		<0.001	
2/22/2017			<0.001		<0.001
5/3/2017		<0.001 (*)			
5/5/2017				<0.001 (*)	
5/8/2017	<0.001		<0.001		<0.001
6/30/2017			<0.001		
7/5/2017					<0.001
7/7/2017				7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)			
3/29/2018			<0.001		<0.001
3/30/2018	<0.001	<0.001		<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	6.2E-05 (J)	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)		7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		8.5E-05 (J)		<0.001
9/24/2020	<0.001	6.4E-05 (J)	0.00037 (J)	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	0.00072 (J)		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)			
3/3/2021	<0.001		<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001			
8/20/2021	<0.001		0.00096 (J)	<0.001	<0.001
2/8/2022			<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001			
8/31/2022	<0.001	<0.001			
9/1/2022			<0.001	<0.001	<0.001
2/8/2023					<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	
Mean	0.0009005	0.0007553	0.0008104	0.0007534	0.000859
Std. Dev.	0.000298	0.0004209	0.0003457	0.000424	0.0003349
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	8E-05	0.00037	7E-05	0.00016



# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
6/8/2016	0.007	0.0067	<0.03			
6/9/2016				0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	0.008 (J)	<0.03			
8/2/2016				0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	0.0111 (J)	<0.03			
9/21/2016				0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016				0.0072 (J)		
1/18/2017	0.0066 (J)	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017			<0.03			0.0055 (J)
2/21/2017	0.0067 (J)				<0.03	
2/22/2017			<0.03	0.0064 (J)		0.0063 (J)
2/23/2017		0.0099 (J)				
5/5/2017				0.007 (J)	<0.03	
5/8/2017	0.007 (J)	0.0086 (J)	<0.03			0.0066 (J)
6/30/2017		0.0108 (J)	<0.03			
7/5/2017				0.0072 (J)		0.0058 (J)
7/7/2017					<0.03	
7/10/2017	0.0064 (J)					
3/29/2018		0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)			0.007 (J)	<0.03	
6/11/2018						0.0064 (J)
6/12/2018			<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	0.014 (J)				
10/2/2018	0.0064 (J)	0.012 (J)	<0.03			0.006 (J)
10/3/2018				0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019		0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)				<0.03	
9/25/2019	0.0073 (J)					0.0057 (J)
9/26/2019		0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020				0.007 (J)	<0.03	
3/20/2020	0.0072 (J)	0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.0067 (J)	0.00081 (J)			
2/11/2021				0.007 (J)		
2/12/2021					0.0053 (J)	<0.03
3/3/2021	0.0077 (J)	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0079 (J)	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022			<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	0.0072 (J)				
8/31/2022	0.0074 (J)					
9/1/2022		0.0069 (J)	<0.03	0.0066 (J)	<0.03	0.0051 (J)
2/8/2023						0.012 (J)
2/9/2023	0.0075 (J)	0.0069 (J)	<0.03	0.0066 (J)	<0.03	
Mean	0.007	0.008804	0.02748	0.006865	0.02893	0.006583
Std. Dev.	0.0006216	0.002013	0.008339	0.0003725	0.00515	0.002369
Upper Lim.	0.007325	0.009857	0.03	0.00706	0.03	0.0066
Lower Lim.	0.006675	0.007752	0.0013	0.00667	0.0053	0.0053

# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IA
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	<0.0002
2/8/2023							<0.0002
2/9/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
Mean	0.0001825	0.0001832	0.0001823	0.0001812	0.0001911	0.0001913	0.0001815
Std. Dev.	4.948E-05	4.742E-05	5.001E-05	5.133E-05	3.687E-05	3.59E-05	5.216E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	0.00019	4.8E-05	5.2E-05	4.7E-05

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29IA
6/8/2016	0.0011 (J)			
6/9/2016		0.0011 (J)	<0.01	<0.01
8/1/2016	0.0018 (J)			
8/2/2016		0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01			
9/21/2016		<0.01	<0.01	<0.01
11/7/2016	<0.01		<0.01	<0.01
11/8/2016		<0.01		
1/18/2017	<0.01	<0.01	<0.01	
1/19/2017				<0.01
2/21/2017			<0.01	
2/22/2017		<0.01		<0.01
2/23/2017	<0.01			
5/5/2017		0.0014 (J)	0.0007 (J)	
5/8/2017	0.0011 (J)			<0.01
6/30/2017	<0.01			
7/5/2017		0.0014 (J)		<0.01
7/7/2017			<0.01	
3/29/2018	<0.01			<0.01
3/30/2018		<0.01	<0.01	
6/11/2018				<0.01
6/12/2018		<0.01	<0.01	
6/13/2018	<0.01			
10/2/2018	<0.01			<0.01
10/3/2018		<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01
4/1/2019	<0.01	<0.01		<0.01
4/2/2019			<0.01	
9/25/2019				<0.01
9/26/2019	0.0013 (J)	0.0013 (J)	<0.01	
2/13/2020	0.0014 (J)	0.0013 (J)	<0.01	<0.01
3/19/2020		0.0014 (J)	<0.01	
3/20/2020	0.0014 (J)			<0.01
9/24/2020	0.0015 (J)	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	0.0016 (J)			
2/11/2021		0.0012 (J)		
2/12/2021			<0.01	0.00083 (J)
3/3/2021	0.0017 (J)	0.0011 (J)	0.00083 (J)	<0.01
8/20/2021	0.0042 (J)	0.001 (J)	<0.01	<0.01
2/8/2022		0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	0.0018 (J)			
9/1/2022	0.0016 (J)	0.001 (J)	<0.01	<0.01
2/8/2023				0.00099 (J)
2/9/2023	0.0019 (J)	0.0014 (J)	0.00083 (J)	
Mean	0.005322	0.004665	0.007588	0.00921
Std. Dev.	0.004235	0.004375	0.004151	0.002619
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.0015	0.0012	0.00083	0.00099

# Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-28I	YGWC-28S
6/8/2016	0.0016	0.0003 (J)		
6/9/2016			<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)		
8/2/2016			<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005		
9/21/2016			<0.005	0.001 (J)
11/7/2016	0.0017 (J)	<0.005		<0.005
11/8/2016			<0.005	
1/18/2017	0.002 (J)	0.0012 (J)	<0.005	<0.005
2/21/2017	0.0018 (J)	0.0014 (J)		<0.005
2/22/2017			0.0012 (J)	
5/3/2017		<0.005		
5/5/2017			<0.005	<0.005
5/8/2017	<0.01			
7/5/2017			<0.005	
7/7/2017				<0.005
7/10/2017	0.002 (J)	<0.005		
3/30/2018	<0.01	<0.005	<0.005	<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005
4/1/2019			<0.005	
4/2/2019	0.0017 (J)	<0.005		<0.005
9/25/2019	0.0019 (J)	<0.005		
9/26/2019			<0.005	<0.005
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005	<0.005
3/20/2020	0.0019 (J)			
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005		
2/11/2021			<0.005	
2/12/2021				<0.005
3/2/2021		<0.005		
3/3/2021	0.0034 (J)		<0.005	<0.005
8/19/2021		<0.005		
8/20/2021	0.0026 (J)		<0.005	<0.005
2/8/2022			<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005		
8/31/2022	0.0036 (J)	<0.005		
9/1/2022			<0.005	<0.005
2/9/2023	0.0042 (J)	<0.005	<0.005	<0.005
Mean	0.0027	0.004252	0.004819	0.00481
Std. Dev.	0.001104	0.001592	0.0008292	0.0008729
Upper Lim.	0.003091	0.005	0.005	0.005
Lower Lim.	0.002049	0.0014	0.0012	0.001

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 4/28/2023 6:32 AM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27S	YGWC-29IA
6/8/2016	<0.001	0.00012 (J)	
6/9/2016			<0.001
8/1/2016	<0.001	0.0001 (J)	
8/2/2016			<0.001
9/20/2016	<0.001	<0.001	
9/21/2016			<0.001
11/7/2016	<0.001	<0.001	<0.001
1/18/2017	<0.001		
1/19/2017		<0.001	<0.001
2/21/2017	<0.001		
2/22/2017		<0.001	<0.001
5/3/2017	<0.001		
5/8/2017		0.0001 (J)	<0.001
6/30/2017		0.0001 (J)	
7/5/2017			<0.001
7/10/2017	<0.001		
3/29/2018		<0.001	<0.001
3/30/2018	<0.001		
2/27/2019	<0.001	<0.001	<0.001
2/13/2020	5.7E-05 (J)	0.0001 (J)	<0.001
3/19/2020	5.5E-05 (J)		
3/20/2020		0.00011 (J)	<0.001
9/24/2020	<0.001	<0.001	<0.001
2/10/2021	<0.001	<0.001	
2/12/2021			<0.001
2/8/2022		<0.001	<0.001
2/10/2022	<0.001		
8/31/2022	<0.001		
9/1/2022		<0.001	<0.001
2/8/2023			0.00021 (J)
2/9/2023	<0.001	<0.001	
Mean	0.0008889	0.0006841	0.0009535
Std. Dev.	0.0003135	0.0004409	0.0001916
Upper Lim.	0.001	0.001	0.001
Lower Lim.	5.7E-05	0.0001	0.00021

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