



# 2022 Semiannual Groundwater Monitoring and Corrective Action Report

**Plant Yates – AP-1  
Permit 038-017D(CCR)  
Newnan, Georgia**

February 28, 2023



# 2022 Semiannual Groundwater Monitoring and Corrective Action Report

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**Permit 038-017D(CCR)**  
**Newnan, Georgia**

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## Summary

This summary of the 2022 Semiannual Groundwater Monitoring and Corrective Action Report provides the status of the groundwater monitoring and corrective action program from July 2022 through December 2022 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Pond (AP) AP-1 (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 material resulting from power generation have historically been transferred and stored at the site. The site is located on the northwestern portion of the Plant Yates property. AP-1 was closed by removal of CCR material. The GA EPD approved Closure Permit No. 038-017D(CCR) for Plant Yates AP-1 on January 6, 2022.

Groundwater at the site is monitored using a comprehensive monitoring system of wells installed to meet federal and state monitoring requirements of Solid Waste Permit (038-017D(CCR)). Routine sampling and reporting began in 2019 after the completion of eight background sampling events.

Based on groundwater conditions at the site, an assessment monitoring program was established on November 13, 2019. During this 2022 semiannual reporting period, the site remained in assessment monitoring.

During this reporting period, Arcadis conducted a groundwater sampling event in August 2022. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III<sup>2</sup> 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>.



*Plant Yates and the site*

<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	August 2022
Boron	YGWC-44, YGWC-45, YGWC-46A
Calcium	YGWC-45, YGWC-46A, YGWC-52
Chloride	YGWC-44, YGWC-46A
Sulfate	YGWC-45, YGWC-46A
Total Dissolved Solids	YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program, 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 Georgia Environmental Protection Division (GA EPD) semiannually.

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## Acronyms and Abbreviations

ACC	Atlantic Coast Consulting, Inc.
AP	Plant Yates Ash Ponds
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
EPD	Environmental Protection Division
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
ORP	oxidation-reduction potential
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 2022 Semiannual Groundwater Monitoring and Corrective Action Report for the Georgia Power Company Plant Yates AP-1 has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations 257 Subpart D) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management, and 40 CFR Part 258.50(g).

Arcadis U.S., Inc.



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02.28.23  
Date



# 1 Introduction

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-1 (the site) between July through December 2022. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rules are cited within this report.

Groundwater monitoring and reporting for CCR units is performed in accordance with the monitoring requirements §§ 257.90 through 257.95 of the Federal CCR Rule and the GAEPD Rule 391-3-4-10(6)(a)-(c). An assessment monitoring notification was placed in the operating record in November 2019 based on statistically significant increases (SSIs) documented in the 2019 Annual Groundwater Monitoring and Corrective Action Report. This report presents the results of the semiannual monitoring for Appendix III and IV of 40 CFR 257 constituents conducted in August 2022.

## 1.1 Site Description and Background

Plant Yates is located at 708 Dyer Road on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line. The site is approximately 8 miles northwest of the City of Newnan and 13 miles southeast of the City of Carrollton. Plant Yates occupies approximately 2,400 acres. **Figure 1** depicts the site location relative to the surrounding area.

AP-1 was closed by removal; the CCR material was removed from AP-1 to an on-site landfill. GAEPD provided an acknowledgement of removal of CCR in a letter dated November 3, 2020. A permit application to comply with GAEPD Rules was submitted in November 2018 and approved on January 6, 2022 (038-017D(CCR)). Semiannual reporting is completed pursuant to 391-3-4-.10(6)(c). Areas where CCR Removal Reports have been submitted to GAEPD are shown in **Figure 2**.

## 1.2 Site 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 2019).

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 conducted in 2017 (ACC 2021). 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 § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at Plant Yates' AP-1 CCR Unit. 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 compliance monitoring well network is summarized in **Table 1** along with a series of piezometers and non-network wells installed to supplement characterization and groundwater elevation measurements.

As typical of the Piedmont Physiographic Province, there is a degree of connectivity between the saprolite and partially weathered rock units. 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. 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 the second half of 2022 and presents the status of the monitoring program. Groundwater sampling was performed in accordance with 40 CFR § 257.93. Samples were collected from each well in the certified monitoring system shown on **Figure 3**.

**Table 2** summarizes groundwater sampling events conducted at the site from July through December 2022. During the August 2022 event, groundwater samples were collected for both 40 CFR 257 Appendix III and the Appendix IV constituents. Laboratory reports for the monitoring events are presented in **Appendix A**. Field sampling logs are provided in **Appendix B**.

## 2.1 Monitoring Well Installation and Maintenance

Monitoring well-related activities were limited to visual inspection well conditions before sampling, recording the site conditions, and performing exterior maintenance to provide safe access for sampling. 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 August 2022, monitoring wells were inspected, necessary corrective actions were identified and subsequently completed where necessary, as documented in **Appendix B**. There were no well maintenance issues during this period that required corrective actions.

## 2.2 Assessment Monitoring

SSIs of Appendix III constituents were identified in the initial detection monitoring event (March 2019). Pursuant to 40 CFR §§ 257.95(b) and 257.95(d)(1), groundwater samples collected in August 2022 from the CCR monitoring wells were analyzed for Appendix III and Appendix IV constituents.

# 3 Sampling Methodology and Analysis

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

## 3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water elevations were recorded from piezometers and wells in the well network at AP-1. Groundwater elevations recorded during the August 2022 monitoring event are summarized in **Table 3**. A sitewide potentiometric surface map is provided on **Figure 4**; a map for AP-1 is provided on **Figure 5**. The general direction of groundwater flow across the site is towards the west/southwest and is consistent with historical patterns.

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

Specifically:

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

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). Groundwater flow velocities have been calculated and are presented in **Table 4**. The calculated flow velocity is approximately 1.5 feet per day (548 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.

## 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). 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, temperature, oxidation-reduction potential [ORP], 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:

- $\pm 0.1$  standard units for pH;
- $\pm 5\%$  for specific conductance;
- Turbidity measurements less than 5 nephelometric turbidity units; and
- $\pm 10\%$  or  $\pm 0.2$  mg/L (whichever is greater) for DO where DO  $> 0.5$  mg/L. If DO  $< 0.5$  mg/L no stabilization criteria apply.

Once stabilization was achieved, samples were collected directly into laboratory-supplied 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 field calibration forms are included in **Appendix B**.

## 3.3 Laboratory Analysis

Groundwater samples collected during the August 2022 semiannual assessment event were analyzed for Appendix III parameters as well as Appendix IV parameters in accordance with 40 CFR §§ 257.95(b) and 257.95(d)(1). **Table 5** provides a summary of the constituents monitored during the event. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix A**.

Analytical data collected from the semiannual sampling for AP-1 and the upgradient wells are summarized in **Table 6a and Table 6b**, respectively. Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project. Laboratory reports and chain-of-custody records for the monitoring events are presented in **Appendix A**.

### 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 data validation report included in **Appendix A** 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 activities, quality control samples, and data associated with the chemical analytical results. The data are considered useable for meeting project objectives, and the results are considered valid. The complete results of the data quality evaluations are provided in **Appendix A**.

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 samples collected from the AP-1 groundwater monitoring network pursuant to § 257.93(f) in August 2022. 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 Constituents

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 semiannual

events were compared to the statistical limit to determine whether concentrations exceeded background levels. The statistical method incorporates an optional 1-of-2 verification resample plan. When an initial 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 Appendix IV Assessment Monitoring Statistics

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data for the wells identified in **Table 1** for Appendix IV parameters with a target of 95 percent confidence and 95 percent coverage.

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 §§ 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; and
- 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. Statistical evaluation for the Spring 2022 event was updated to reflect these changes.

GWPS have been established for statistical comparison of Appendix IV constituents at AP-1. **Table 7** summarizes the background levels established at each monitoring well for the August 2022 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. A well/constituent pair was considered to exceed its respective standard only when the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, an SSL exceedance was identified.

## 4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the site was performed to determine whether constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Analytical data from the semiannual assessment monitoring event (August 2022) was statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats Consulting 2019).

### 4.2.1 Appendix III Constituents

Based on review of the Appendix III statistical analysis presented in **Appendix C**, Appendix III constituent 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 C**.

### 4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the August 2022 Appendix IV data at AP-1 was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No Statistically Significant Levels (SSLs) were identified.

## 5 Monitoring Program Status

In accordance with 40 CFR § 257.94(e), an assessment monitoring program was implemented in November 2019. No statistical exceedance of a GWPS for Appendix IV parameters has been identified. Pursuant to 40 CFR § 257.96(b), groundwater will continue to be monitored at AP-1 in accordance with the assessment monitoring program regulations of 40 CFR § 257.95 due to SSIs for Appendix III parameters.

## 6 Conclusions and Future Actions

This 2022 Semiannual Groundwater Monitoring and Corrective Action Report was prepared to fulfill the requirements of USEPA's CCR Rule 40 CFR § 257.95 and GAEPD Rule 391-3-4-.10. Statistical evaluations of the groundwater monitoring data for the site identified no exceedance of a GWPS for an Appendix IV constituent.

The next assessment monitoring event is scheduled for February 2023. The February semiannual monitoring event will include sampling and analysis of all Appendix III and IV constituents.

## 7 References

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# Tables

**Table 1**  
**Monitoring Network Well Summary**  
**2022 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-1**



Well ID	Installation Date	Top of Casing Elevation (ft)	Bottom Depth (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	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>Downgradient Wells</b>							
YGWC-44	7/13/2016	758.35	89.85	665.65	78.35	680.00	Detection
YGWC-45	7/10/2016	719.36	72.86	643.64	62.86	656.50	Detection
YGWC-46A	6/1/2020	733.04	70.79	659.31	60.79	672.25	Detection
YGWC-52	5/28/2020	755.86	79.22	673.68	69.22	686.64	Detection
<b>Piezometers</b>							
PZ-53	11/18/2019	732.90	72.00	657.90	61.71	671.19	Water Levels
PZ-09S	5/19/2014	712.08	59.28	650.52	48.98	663.10	Water Levels
PZ-09I	5/19/2014	712.13	79.33	630.47	69.03	643.10	Water Levels
PZ-10S	5/19/2014	700.43	18.63	679.47	8.33	692.10	Water Levels
PZ-10I	5/19/2014	700.25	48.95	648.85	38.65	661.60	Water Levels

**Notes**

ft bTOC - feet below top of casing

Elevation in U.S. Survey Feet (NAVD88) based on June 2020 well survey

**Table 2**  
**Groundwater Sampling Event Summary**  
**2022 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-1**



Well ID	Hydraulic Location	Semiannual Assessment
		August 2022
YGWA-47	Upgradient	X
YGWC-44	Downgradient	X
YGWC-45	Downgradient	X
YGWC-46A	Downgradient	X
YGWC-52	Downgradient	X

**Notes**

1. All well analyzed for Appendix III and IV.

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

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

**Table 3**  
**Summary of Groundwater Elevations**  
**2022 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-1**



Well ID	Dated Measured	TOC (ft)	Depth-to-Water (ft bTOC)	Groundwater Elevation (ft)
YGWA-47	8/29/2022	758.22	28.16	730.06
YGWC-44	8/29/2022	758.35	49.77	708.58
YGWC-45	8/29/2022	719.36	22.28	697.08
YGWC-46A	8/29/2022	733.04	38.48	694.56
YGWC-52	8/29/2022	755.86	37.24	718.62
PZ-09S	8/29/2022	712.08	17.35	694.73
PZ-09I	8/29/2022	712.13	17.57	694.56
PZ-10S	8/29/2022	700.43	7.37	693.06
PZ-10I	8/29/2022	700.25	13.30	686.95
PZ-53	8/29/2022	732.90	38.36	694.54

**Notes**

ft bTOC - feet below top of casing

TOC - top of casing

Elevation in U.S. Survey Feet (NAVD88)

**Table 4**  
**Groundwater Flow Velocity Calculations**  
**2022 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-1**



**Equation**

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

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

**Values Used in Calculation**

Value		Source
K:	3.70E-03 cm/sec 10.5 ft/day	See note 1
i = 0.028	unitless	Hydraulic gradient from: YGWA-47 to YGWC-45 (Aug. 2022) Distance (ft): 1172 Elevations (ft): YGWA-47: 730.06 YGWC-45: 697.08
n <sub>e</sub> = 0.200	unitless	See note 2

**Average Linear Velocity**

Aug. 2022

$$V_{min} = \frac{(10.5) (0.028)}{0.2}$$

$$V_{min} = 1.5 \text{ ft/day, or } 548 \text{ ft/year}$$

**Notes**

1. Slug tests performed by Atlantic Coast Consulting, Inc. in 2017 (ACC 2021).
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1989).

**Table 5**  
**Summary of Groundwater Monitoring Parameters**  
**2022 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-1**



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  
 2022 Semiannual Groundwater Monitoring and Corrective Action Report  
 Georgia Power Company  
 Plant Yates AP-1



Analyte	Location	YGWC-44	YGWC-45	YGWC-46A	YGWC-52	
	Sample Date	8/31/2022	8/31/2022	8/31/2022	8/31/2022	
	Units					
Appendix III	pH	SU	5.77	6.56	6.87	5.58
	Boron	mg/l	0.54	0.33	2.1	< 0.040
	Calcium	mg/l	30.8	51.8	110	41.8
	Chloride	mg/l	14.5	5.4	29.9	3.4
	Fluoride	mg/l	0.055 J	0.1	0.12	0.59 J
	Sulfate	mg/l	130	177	459	122
	Total Dissolved Solids	mg/l	343	445	948	266
Appendix IV	Antimony	mg/l	< 0.0030	< 0.0030	< 0.0030	< 0.0030
	Arsenic	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	Barium	mg/l	0.073	0.052	0.036	0.017
	Beryllium	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	Cadmium	mg/l	< 0.00050	< 0.00050	< 0.00050	< 0.00050
	Chromium	mg/l	< 0.0050	< 0.0050	< 0.0050	< 0.0050
	Cobalt	mg/l	0.00099 J	0.00069 J	0.0017 J	0.00096 J
	Fluoride	mg/l	0.055 J	0.10	0.12	0.59 J
	Lead	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	Lithium	mg/l	0.013 J	0.012	0.015 J	0.0037 J
	Mercury	mg/l	< 0.00020	< 0.00020	< 0.00020	< 0.00020
	Molybdenum	mg/l	< 0.010	0.0011	0.0017 J	< 0.010
	Combined Radium - 226/228	pci/l	0.145 U	0.598 U	1.51	0.322 U
Thallium	mg/l	< 0.0010	< 0.0010	< 0.0010	< 0.0010	

**Notes:**

1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
2. Appendix III = Indicator parameters evaluated during Detection Monitoring.
3. Appendix IV = Parameters evaluated during Assessment Monitoring.

**Laboratory Qualifiers:**

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

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

	Analyte	Units	GWA-2	YGWA-1D	YGWA-1I	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-4I
			8/30/2022	8/30/2022	8/31/2022	8/30/2022	8/31/2022	8/31/2022	8/31/2022
Appendix III	pH	SU	5.39	7.2	5.64	7.04	7.49	7.65	5.50
	Boron	mg/l	< 0.0086	< 0.0086	< 0.043 D3	< 0.0086	< 0.0086	< 0.0086	< 0.0086
	Calcium	mg/l	23.5	14.9	1.9	25.4	23.5	28.7	8.9
	Chloride	mg/l	6.3	1.3	1.5	1.2	1.3	1.3	4.4
	Fluoride	mg/l	0.086 J	0.093 J	0.065 J	0.12	0.13	0.42	0.061 J
	Sulfate	mg/l	101	10.2	4.8	20.1	13.9	6.9	8.0
	Total Dissolved Solids	mg/l	244	105	57.0	153	137	141	92.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0024 J	< 0.0022	< 0.0022	0.0027 J	< 0.0022	0.0028 J	< 0.0022
	Barium	mg/l	0.031	0.0066	0.0074	0.0030 J	0.0030 J	0.0048 J	0.013
	Beryllium	mg/l	< 0.000054	< 0.000054	< 0.00027	< 0.000054	< 0.000054	< 0.000054	< 0.000054
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	0.0011 J	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	0.075	< 0.00039	0.00085 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	0.0025 J	0.013 J	< 0.0036	0.0044 J	0.022 J	0.021 J	0.013 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	< 0.00074	0.0094 J	0.0055 J	0.0068 J	0.0068 J	0.011	< 0.00074
	Combined Radium - 226/228	pCi/l	1.52	0.827	0.490 U	0.699 U	1.33	2.12	0.962
	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.

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



	Analyte	Units	YGWA-5D	YGWA-5I	YGWA-14S	YGWA-17S	YGWA-18I	YGWA-18S
			8/30/2022	8/30/2022	8/31/2022	8/30/2022	8/30/2022	8/30/2022
Appendix III	pH	SU	7.40	5.00	5.15	4.68	5.82	5.18
	Boron	mg/l	0.0098 J	< 0.0086	0.015 J	0.013 J	< 0.0086	0.014 J
	Calcium	mg/l	24.8	2.5	1.3	3.0	5.7	0.77 J
	Chloride	mg/l	3.5	4.4	4.6	12.0	7.9	7.0
	Fluoride	mg/l	0.085 J	< 0.050	0.053 J	< 0.050	< 0.050	< 0.050
	Sulfate	mg/l	5.7	2.4	5.8	4.7	0.78 J	1.3
	Total Dissolved Solids	mg/l	148	86.0	51.0	81.0	100	52.0
Appendix IV	Antimony	mg/l	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	0.0031 J	< 0.0022	< 0.0022	< 0.0022	< 0.0022	< 0.0022
	Barium	mg/l	0.0079	0.017	0.0075	0.017	0.017	0.012
	Beryllium	mg/l	< 0.000054	< 0.000054	0.00020 J	0.00010 J	< 0.000054	0.000082 J
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	0.0015 J
	Cobalt	mg/l	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039	< 0.00039
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	0.0068 J	0.0035 J	< 0.00073	< 0.00073	0.0036 J	0.0014 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
	Molybdenum	mg/l	0.00089 J	< 0.00074	< 0.00074	< 0.00074	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	5.34	0.720 U	0.421 U	1.08	1.01	0.611 U
	Selenium	mg/l	< 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

**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.

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

	Analyte	Units	YGWA-20S	YGWA-21I	YGWA-30I	YGWA-39	YGWA-40	YGWA-47
			8/31/2022	8/30/2022	8/31/2022	8/31/2022	8/31/2022	8/31/2022
Appendix III	pH	SU	5.38	6.58	5.87	5.30	4.53	5.32
	Boron	mg/l	< 0.043 D3	0.012 J	< 0.0086	0.14	0.062	0.0091 J
	Calcium	mg/l	2.4	7.3	1.3	16.3	6.2	9.6
	Chloride	mg/l	2.9	2.4	1.8	6.7	6.3	3.5
	Fluoride	mg/l	< 0.050	0.10	0.060 J	0.065 J	0.050 J	0.065 J
	Sulfate	mg/l	< 0.50	3.2	1.1	10.9	17.9	48.0
	Total Dissolved Solids	mg/l	62.0	122	33.0 D6	248	92.0	116
Appendix IV	Antimony	mg/l	< 0.00078	0.0046	< 0.00078	< 0.00078	< 0.00078	< 0.00078
	Arsenic	mg/l	< 0.0022	0.0022 J	< 0.0022	0.0029 J	< 0.0022	< 0.0022
	Barium	mg/l	0.011	0.0085	0.0068	0.035	0.035	0.029
	Beryllium	mg/l	< 0.00027	< 0.000054	< 0.000054	< 0.000054	0.00025 J	< 0.000054
	Cadmium	mg/l	< 0.00011	< 0.00011	< 0.00011	0.00044 J	< 0.00011	< 0.00011
	Chromium	mg/l	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	Cobalt	mg/l	< 0.00039	0.0066	0.0040 J	0.00085 J	< 0.00039	0.00096 J
	Lead	mg/l	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089	< 0.00089
	Lithium	mg/l	< 0.00073	0.0079 J	0.0012 J	0.0065 J	< 0.00073	0.0037 J
	Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	0.00064	< 0.00013
	Molybdenum	mg/l	< 0.00074	< 0.00074	< 0.00074	0.0036 J	< 0.00074	< 0.00074
	Combined Radium - 226/228	pCi/l	0.184 U	1.27	0.506 U	0.937	0.513 U	0.714 U
	Selenium	mg/l	< 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

**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.

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

**Table 7**  
**Summary of Background Levels and Groundwater Protection Standards**  
**2022 Semiannual Groundwater Monitoring and Corrective Action Report**  
**Georgia Power Company**  
**Plant Yates AP-1**



Constituent	Units	Background	GWPS
<b>August 2022</b>			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.071	2
Beryllium	mg/L	0.0005	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 <sup>1</sup>
Fluoride	mg/L	0.68	4
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.03	0.040
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.014	0.1
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>1</sup>

**Notes**

GWPS - Groundwater Protection Standard per 40 CFR §257.95(h).

Site background - Tolerance limits calculated from pooled upgradient well data.

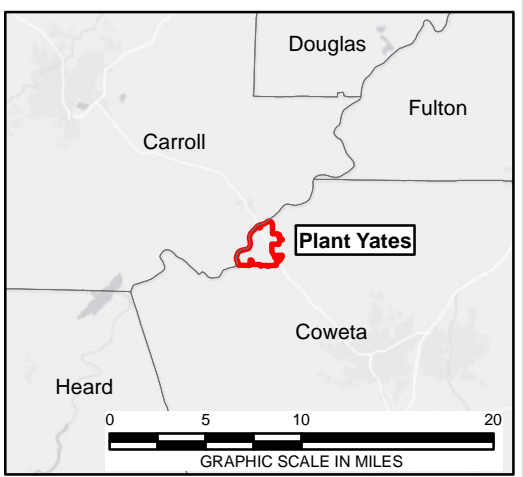
1. Background concentration is higher than the federally promulgated value (0.006 mg/L for Co). Background is higher than radium MCL (5 mg/L). Therefore background is the GWPS.

**Acronyms and Abbreviations:**

GWPS - Groundwater Protection Standard

pCi/L - picoCuries per liter

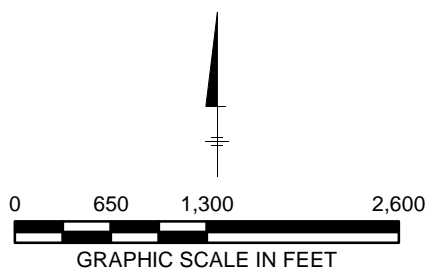
# Figures



**LEGEND**

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

**NOTE:**  
 AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

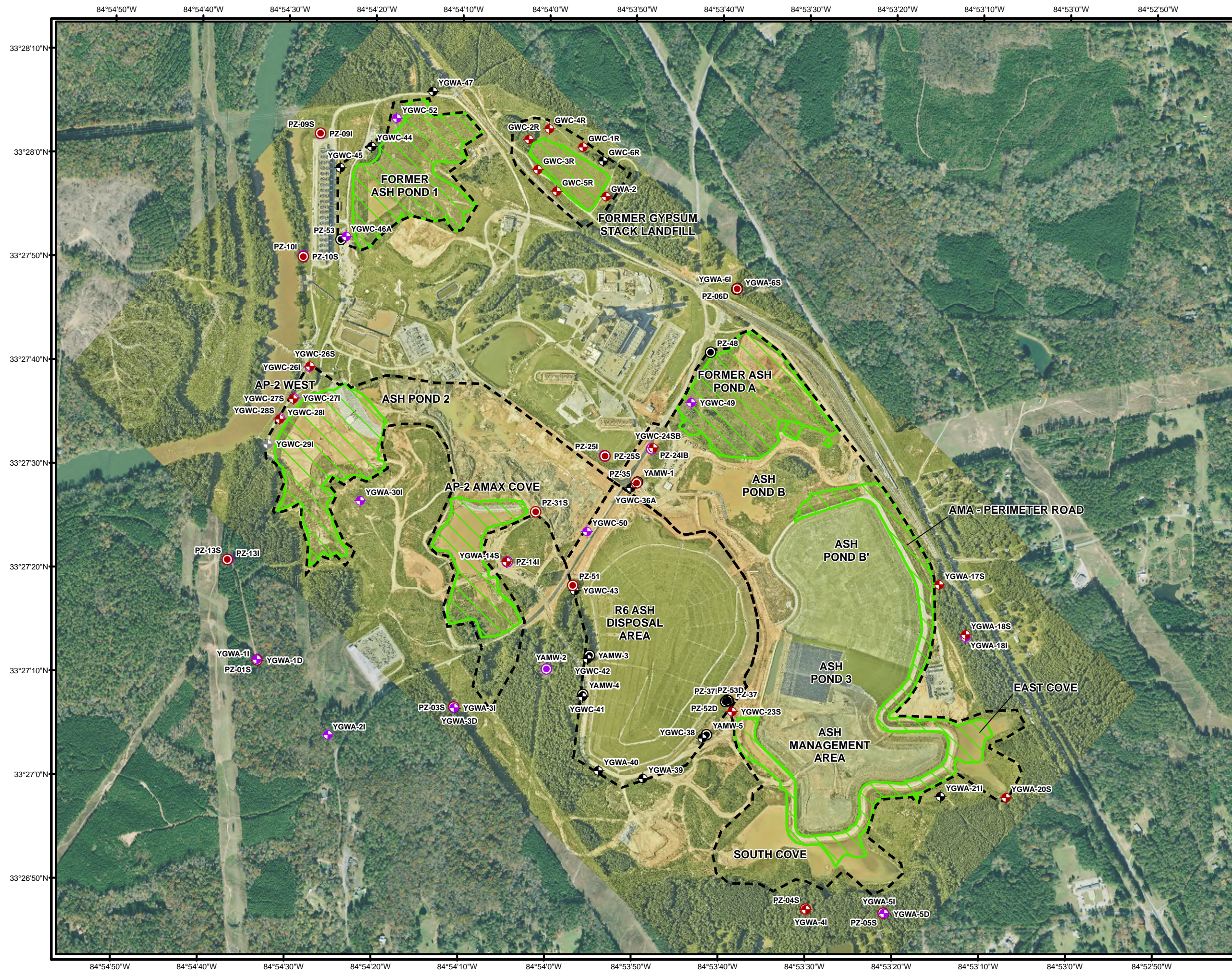


COORDINATE SYSTEM: NAD 1983 STATEPLANE  
 GEORGIA WEST FIPS 1002 FEET

**Georgia Power**  
 PLANT YATES AP-1  
 NEWNAN, GA  
 2022 SEMIANNUAL GROUNDWATER MONITORING  
 AND CORRECTIVE ACTION REPORT

**SITE LOCATION MAP**

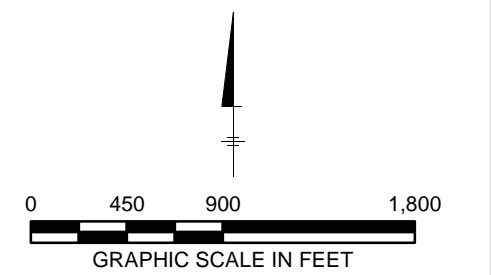
**ARCADIS** | FIGURE **1**



**LEGEND**

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/PIEZOMETER
- TRANSITION ASSESSMENT WELL/PIEZOMETER
- BEDROCK ASSESSMENT WELL/PIEZOMETER
- ABANDONED DETECTION MONITORING WELL LOCATION
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 1/31/2023

**NOTE:**  
 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-1  
 NEWNAN, GA  
 2022 SEMIANNUAL GROUNDWATER MONITORING  
 AND CORRECTIVE ACTION REPORT

**PLANT YATES CCR REMOVAL AREAS**

**ARCADIS** FIGURE  
**2**

84°54'30"W

84°54'20"W

84°54'10"W

33°28'0"N

33°27'50"N

84°54'30"W

84°54'20"W

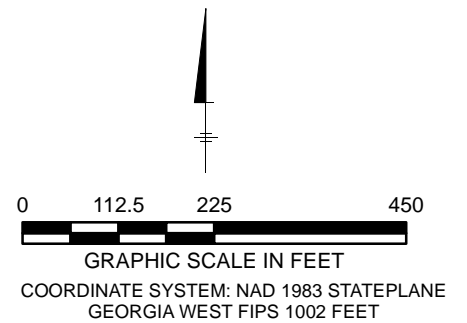
84°54'10"W



**LEGEND**

- 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

**NOTE:**  
 AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

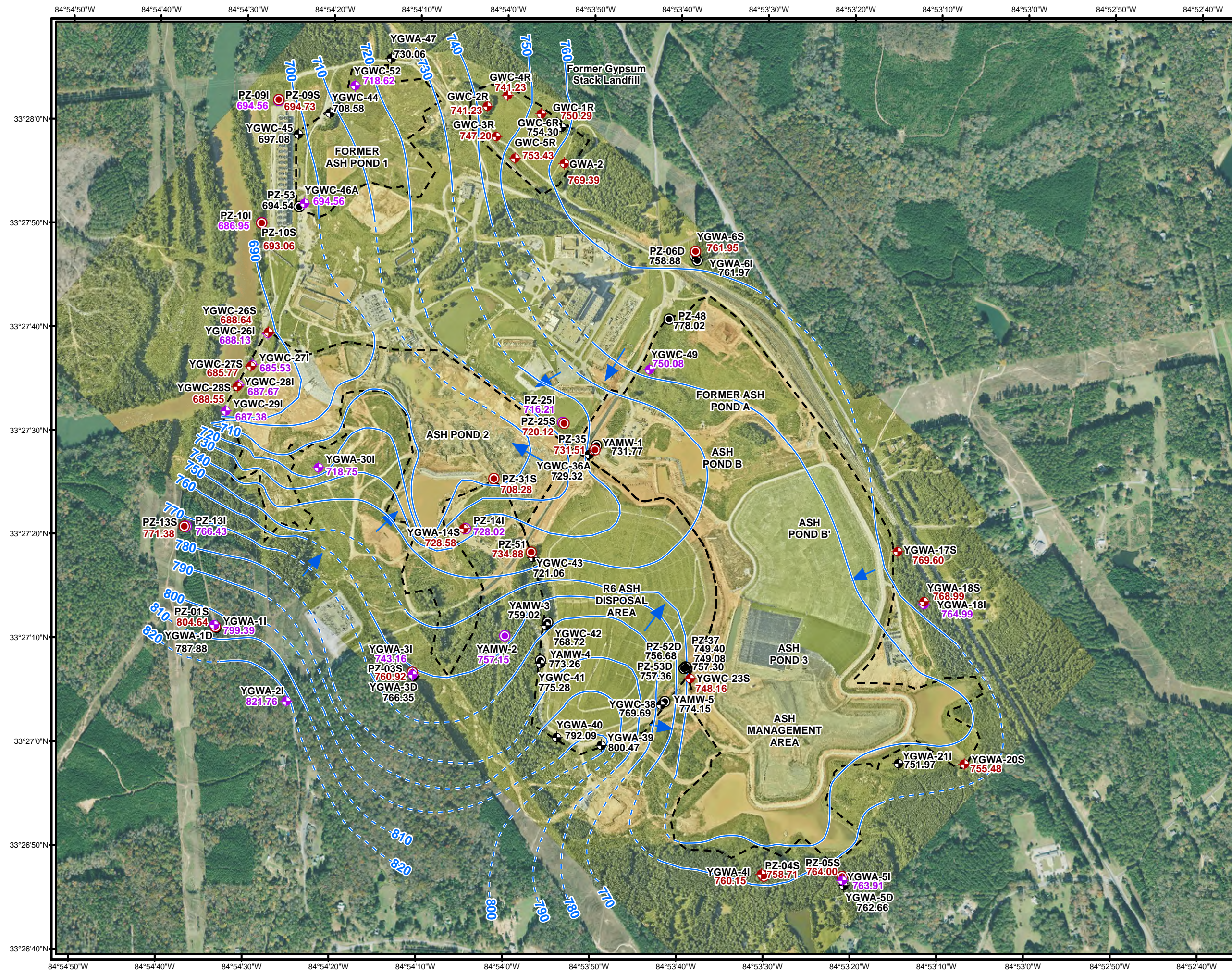


**Georgia Power**  
 PLANT YATES AP-1  
 NEWNAN, GA  
 2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

**WELL LOCATION MAP**

ARCADIS

FIGURE  
**3**

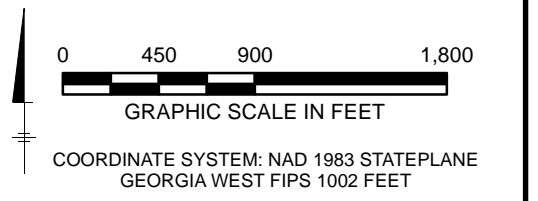



### LEGEND

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

**757.11 GROUNDWATER ELEVATION (FEET)**

- ### 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: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.
  5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
  6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 29, 2022.





**Georgia Power**  
PLANT YATES AP-1  
NEWNAN, GA

**2022 SEMIANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT**

**SITEWIDE GROUNDWATER ELEVATION MAP**  
**AUGUST 2022**




FIGURE  
**4**



84°54'30"W

84°54'20"W

84°54'10"W

33°28'0"N

33°27'50"N

84°54'30"W

84°54'20"W

84°54'10"W



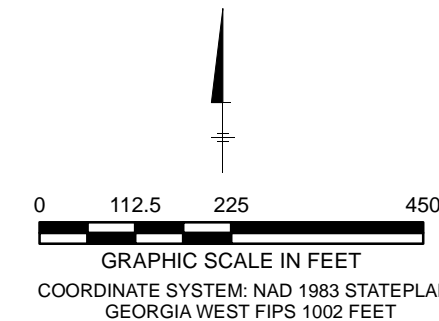
### LEGEND

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

708.94 GROUNDWATER ELEVATION (FEET)

### NOTES:

1. \* = GROUNDWATER ELEVATION WAS NOT USED FOR POTENTIOMETRIC CONTOURING.
2. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).
3. AERIAL IMAGE SOURCES: AUGUST 30, 2022 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.



**Georgia Power**  
 PLANT YATES AP-1  
 NEWNAN, GA  
 2022 SEMIANNUAL GROUNDWATER MONITORING  
 AND CORRECTIVE ACTION REPORT

**GROUNDWATER ELEVATION MAP,  
 AUGUST 2022**

**ARCADIS**

FIGURE  
**5**

# Appendix A

## Laboratory Analytical and Data Validation Reports

Georgia Power Co. – Plant Yates

# Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92623537 and 92623538

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #47078R

Review Level: Tier II

Project: 30143607.3A

## Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92623537 and 92623538 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
YGWC-52	92623537001 92623538001	Water	8/31/2022		X	X	X
YGWC-46A	92623537002 92623538002	Water	8/31/2022		X	X	X
AP-1-DUP-1	92623537003 92623538003	Water	8/31/2022	YGWC-46A	X	X	X
AP-1 EB-1	92623537004 92623538004	Water	8/31/2022		X	X	X
AP-1 FB-1	92623537005 92623538005	Water	8/31/2022		X	X	X
YGWC-44	92623537006 92623538006	Water	8/31/2022		X	X	X
YGWC-45	92623537007 92623538007	Water	8/31/2022		X	X	X

**Notes:**

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

## 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 and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

## Data Review Report

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

# Metals Analyses

## 1. Holding Times

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

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

**Note:**

s.u. = standard units

All samples were analyzed within the specified holding times.

## 2. Blank Contamination

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

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

Boron was detected in the associated equipment blank AP-1 EB-1; however, the associated sample results were greater than the BAL and/or were non-detect. 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 AP-DUP-1 in association with SW-846 6010D analysis, however the concentration of calcium in the unspiked sample was greater than four-times the spike concentration. The MS/MSD sample results were not evaluated.



MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6020B and 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. 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
YGWC-46A / AP-1-DUP-1	Calcium	110	105	4.7%
	Barium	0.036	0.037	2.7%
	Boron	2.1	2.1	0.0%
	Cobalt	0.0017 J	0.0019 J	AC
	Lithium	0.015 J	0.015 J	
	Molybdenum	0.0017 J	0.0018 J	

**Note:**

AC = Acceptable

The differences in the results between the parent sample YGWC-46A and field duplicate sample AP-1-DUP-1 were acceptable.

## 5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

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

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

## Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		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
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.

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

### 3.2 Laboratory Duplicate Analysis

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

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

### 4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-46A / AP-1-DUP-1	TDS	948	882	7.2%
	Chloride	29.9	30.0	0.3%
	Fluoride	0.12	0.12	AC
	Sulfate	459	454	1.1%

**Note:**

AC = Acceptable

The differences in the results between the parent sample YGWC-46A and field duplicate sample AP-1-DUP-1 were acceptable.

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

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

The LCS analysis exhibited recoveries within the control limits.

### 6. System Performance and Overall Assessment

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

## Data Validation Checklist for General Chemistry

General Chemistry: SM4500-H+ B, SM2540C, 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 ±3 sigma or standard deviation.

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

$x_1, x_2$  = two measured activity concentrations.

$u^2(x_1), u^2(x_2)$  = the combined standard uncertainty of each measurement squared.

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

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

### 4. Field Duplicate Analysis

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

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

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWC-46A / AP-1-DUP-1	Radium-226	0.737 ± 0.230	0.512 ± 0.201	AC
	Radium-228	0.787 ± 0.494	0.968 ± 0.522	
	Total Radium	1.51 ± 0.724	1.48 ± 0.723	

**Note:**

AC = Acceptable

The differences in the results between the parent sample YGWC-46A and field duplicate sample AP-DUP-1 were acceptable.

## 5. Tracer or Carrier

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

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

## 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:

- YGWC-46A – Radium-228
- YGWC-45 – Radium-228 and total Radium
- YGWC-52, AP-1 EB-1, AP-1 FB-1, YGWC-44 – 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: November 8, 2022

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PEER REVIEW: Dennis Capria

DATE: November 9, 2022

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







SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92623537						No qualifiers assigned	
92623538						No qualifiers assigned	

September 26, 2022

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

RE: Project: Plant Yates AP-1 Rads  
Pace Project No.: 92623537

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo  
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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  
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 AP-1 Rads  
Pace Project No.: 92623537

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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 AP-1 Rads

Pace Project No.: 92623537

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623537001	YGWC-52	Water	08/31/22 11:20	09/01/22 09:05
92623537002	YGWC-46A	Water	08/31/22 14:50	09/01/22 09:05
92623537003	AP-DUP-1	Water	08/31/22 00:00	09/01/22 09:05
92623537004	AP-1 EB-1	Water	08/31/22 11:40	09/01/22 09:05
92623537005	AP-1 FB-1	Water	08/31/22 11:35	09/01/22 09:05
92623537006	YGWC-44	Water	08/31/22 11:25	09/01/22 09:05
92623537007	YGWC-45	Water	08/31/22 15:50	09/01/22 09:05

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-1 Rads  
Pace Project No.: 92623537

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623537001	YGWC-52	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623537002	YGWC-46A	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623537003	AP-DUP-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623537004	AP-1 EB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623537005	AP-1 FB-1	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623537006	YGWC-44	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623537007	YGWC-45	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Plant Yates AP-1 Rads  
Pace Project No.: 92623537

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92623537001</b>	<b>YGWC-52</b>					
EPA 9315	Radium-226	0.0374 ± 0.0816 (0.192)	pCi/L		09/26/22 08:41	
EPA 9320	Radium-228	C:92% T:NA 0.285 ± 0.431 (0.930)	pCi/L		09/21/22 18:23	
Total Radium Calculation	Total Radium	C:72% T:90% 0.322 ± 0.513 (1.12)	pCi/L		09/26/22 14:14	
<b>92623537002</b>	<b>YGWC-46A</b>					
EPA 9315	Radium-226	0.727 ± 0.230 (0.193)	pCi/L		09/26/22 08:41	
EPA 9320	Radium-228	C:83% T:NA 0.787 ± 0.494 (0.899)	pCi/L		09/21/22 18:23	
Total Radium Calculation	Total Radium	C:71% T:83% 1.51 ± 0.724 (1.09)	pCi/L		09/26/22 14:14	
<b>92623537003</b>	<b>AP-DUP-1</b>					
EPA 9315	Radium-226	0.512 ± 0.201 (0.232)	pCi/L		09/26/22 08:41	
EPA 9320	Radium-228	C:77% T:NA 0.968 ± 0.522 (0.905)	pCi/L		09/21/22 18:23	
Total Radium Calculation	Total Radium	C:69% T:86% 1.48 ± 0.723 (1.14)	pCi/L		09/26/22 14:14	
<b>92623537004</b>	<b>AP-1 EB-1</b>					
EPA 9315	Radium-226	0.148 ± 0.103 (0.161)	pCi/L		09/26/22 08:09	
EPA 9320	Radium-228	C:93% T:NA 0.244 ± 0.415 (0.905)	pCi/L		09/21/22 18:23	
Total Radium Calculation	Total Radium	C:76% T:87% 0.392 ± 0.518 (1.07)	pCi/L		09/26/22 14:14	

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### SUMMARY OF DETECTION

Project: Plant Yates AP-1 Rads  
Pace Project No.: 92623537

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92623537005</b>	<b>AP-1 FB-1</b>					
EPA 9315	Radium-226	0.0432 ± 0.0766 (0.173) C:97% T:NA	pCi/L		09/26/22 08:10	
EPA 9320	Radium-228	0.513 ± 0.547 (1.14) C:66% T:87%	pCi/L		09/21/22 18:24	
Total Radium Calculation	Total Radium	0.556 ± 0.624 (1.31)	pCi/L		09/26/22 14:14	
<b>92623537006</b>	<b>YGWC-44</b>					
EPA 9315	Radium-226	0.00597 ± 0.0750 (0.203) C:84% T:NA	pCi/L		09/26/22 08:10	
EPA 9320	Radium-228	0.139 ± 0.412 (0.927) C:71% T:92%	pCi/L		09/21/22 18:24	
Total Radium Calculation	Total Radium	0.145 ± 0.487 (1.13)	pCi/L		09/26/22 14:14	
<b>92623537007</b>	<b>YGWC-45</b>					
EPA 9315	Radium-226	0.448 ± 0.188 (0.226) C:84% T:NA	pCi/L		09/26/22 08:10	
EPA 9320	Radium-228	0.150 ± 0.395 (0.885) C:75% T:89%	pCi/L		09/21/22 18:24	
Total Radium Calculation	Total Radium	0.598 ± 0.583 (1.11)	pCi/L		09/26/22 14:14	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1 Rads

Pace Project No.: 92623537

**Sample: YGWC-52**      **Lab ID: 92623537001**      Collected: 08/31/22 11:20      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0374 ± 0.0816 (0.192)</b> <b>C:92% T:NA</b>	pCi/L	09/26/22 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.285 ± 0.431 (0.930)</b> <b>C:72% T:90%</b>	pCi/L	09/21/22 18:23	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.322 ± 0.513 (1.12)</b>	pCi/L	09/26/22 14:14	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1 Rads

Pace Project No.: 92623537

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YGWC-46A</b>						
<b>Lab ID: 92623537002</b>						
Collected: 08/31/22 14:50						
Received: 09/01/22 09:05						
Matrix: Water						
PWS:						
Site ID:						
Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.727 ± 0.230 (0.193)</b> <b>C:83% T:NA</b>	pCi/L	09/26/22 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.787 ± 0.494 (0.899)</b> <b>C:71% T:83%</b>	pCi/L	09/21/22 18:23	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.51 ± 0.724 (1.09)</b>	pCi/L	09/26/22 14:14	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1 Rads

Pace Project No.: 92623537

**Sample: AP-DUP-1**      **Lab ID: 92623537003**      Collected: 08/31/22 00:00      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.512 ± 0.201 (0.232)</b> <b>C:77% T:NA</b>	pCi/L	09/26/22 08:41	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.968 ± 0.522 (0.905)</b> <b>C:69% T:86%</b>	pCi/L	09/21/22 18:23	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.48 ± 0.723 (1.14)</b>	pCi/L	09/26/22 14:14	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1 Rads

Pace Project No.: 92623537

**Sample: AP-1 EB-1**      **Lab ID: 92623537004**      Collected: 08/31/22 11:40      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.148 ± 0.103 (0.161)</b> <b>C:93% T:NA</b>	pCi/L	09/26/22 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.244 ± 0.415 (0.905)</b> <b>C:76% T:87%</b>	pCi/L	09/21/22 18:23	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.392 ± 0.518 (1.07)</b>	pCi/L	09/26/22 14:14	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1 Rads

Pace Project No.: 92623537

**Sample: AP-1 FB-1**      **Lab ID: 92623537005**      Collected: 08/31/22 11:35      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.0432 ± 0.0766 (0.173)</b> <b>C:97% T:NA</b>	pCi/L	09/26/22 08:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.513 ± 0.547 (1.14)</b> <b>C:66% T:87%</b>	pCi/L	09/21/22 18:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.556 ± 0.624 (1.31)</b>	pCi/L	09/26/22 14:14	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1 Rads

Pace Project No.: 92623537

**Sample: YGWC-44**      **Lab ID: 92623537006**      Collected: 08/31/22 11:25      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.00597 ± 0.0750 (0.203)</b> <b>C:84% T:NA</b>	pCi/L	09/26/22 08:10	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.139 ± 0.412 (0.927)</b> <b>C:71% T:92%</b>	pCi/L	09/21/22 18:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.145 ± 0.487 (1.13)</b>	pCi/L	09/26/22 14:14	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates AP-1 Rads

Pace Project No.: 92623537

**Sample: YGWC-45**      **Lab ID: 92623537007**      Collected: 08/31/22 15:50      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.448 ± 0.188 (0.226)</b> <b>C:84% T:NA</b>	pCi/L	09/26/22 08:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.150 ± 0.395 (0.885)</b> <b>C:75% T:89%</b>	pCi/L	09/21/22 18:24	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.598 ± 0.583 (1.11)</b>	pCi/L	09/26/22 14:14	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-1 Rads

Pace Project No.: 92623537

QC Batch: 530875

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623537001, 92623537002, 92623537003, 92623537004, 92623537005, 92623537006, 92623537007

METHOD BLANK: 2574654

Matrix: Water

Associated Lab Samples: 92623537001, 92623537002, 92623537003, 92623537004, 92623537005, 92623537006, 92623537007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.601 ± 0.386 (0.738) C:78% T:91%	pCi/L	09/21/22 12:20	

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

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates AP-1 Rads

Pace Project No.: 92623537

QC Batch: 530876

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623537001, 92623537002, 92623537003, 92623537004, 92623537005, 92623537006, 92623537007

METHOD BLANK: 2574656

Matrix: Water

Associated Lab Samples: 92623537001, 92623537002, 92623537003, 92623537004, 92623537005, 92623537006, 92623537007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0122 ± 0.0618 (0.163) C:93% T:NA	pCi/L	09/26/22 09:16	

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 AP-1 Rads

Pace Project No.: 92623537

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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-1 Rads  
Pace Project No.: 92623537

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623537001	YGWC-52	EPA 9315	530876		
92623537002	YGWC-46A	EPA 9315	530876		
92623537003	AP-DUP-1	EPA 9315	530876		
92623537004	AP-1 EB-1	EPA 9315	530876		
92623537005	AP-1 FB-1	EPA 9315	530876		
92623537006	YGWC-44	EPA 9315	530876		
92623537007	YGWC-45	EPA 9315	530876		
92623537001	YGWC-52	EPA 9320	530875		
92623537002	YGWC-46A	EPA 9320	530875		
92623537003	AP-DUP-1	EPA 9320	530875		
92623537004	AP-1 EB-1	EPA 9320	530875		
92623537005	AP-1 FB-1	EPA 9320	530875		
92623537006	YGWC-44	EPA 9320	530875		
92623537007	YGWC-45	EPA 9320	530875		
92623537001	YGWC-52	Total Radium Calculation	535440		
92623537002	YGWC-46A	Total Radium Calculation	535440		
92623537003	AP-DUP-1	Total Radium Calculation	535440		
92623537004	AP-1 EB-1	Total Radium Calculation	535440		
92623537005	AP-1 FB-1	Total Radium Calculation	535440		
92623537006	YGWC-44	Total Radium Calculation	535440		
92623537007	YGWC-45	Total Radium Calculation	535440		

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DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #

WO#: 92623537

Courier:  Fed Ex  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/1/22 [initials]

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID:

230

Type of Ice:

Wet  Blue  None

Cooler Temp:

2.5

Correction Factor:

Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C):

2.5

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 checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers.

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

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

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

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



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

**WO#: 92623537**

\*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 #

PM: NMG

Due Date: 09/23/22

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)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)	
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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.

**Section A** Requested Client Information: Company: GA Power, Address: Atlanta, GA

**Section B** Requested Project Information: Request To: SCS Contacts, Copy To: Arcadis Contacts

**Section C** Invoice Information: Jurisdiction: Southern Co., Company Name: Southern Co., Address: P.O. Box 10940, P.O. Box 10940, P.O. Box 10940

Regulatory Agency: State of Georgia, State / Location: Georgia

Page: 1 of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . / ) Samples IDs must be unique	ANALYST Drawing Notes Water Wastewater Sediment Sludge Soil Air Other	CODE SW MW CW WW AW SW MW CW WW AW	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES					ANALYSES TEST	Y/N	DATE	TIME	DATE	TIME	SAMPLE CONDITION
						START DATE	END DATE		# OF CONTAINERS	H2SO4	HNO3	HCl	NaOH							
1	YGWC-82			WC	G				Unpreserved											
2	YGWC-44			WC	G	9/12/12			Unpreserved											
3	YGWC-45			WC	G	9/12/12			Unpreserved											
4	YGWC-46A			WC	G	9/12/12			Unpreserved											
5	AP-1-DUP-1			WC	G				Unpreserved											
6	AP-1-EB-1			WC	G				Unpreserved											
7	AP-1-FB-1			WC	G				Unpreserved											
8				WC	G				Unpreserved											
9				WC	G				Unpreserved											
10				WC	G				Unpreserved											
11				WC	G				Unpreserved											
12				WC	G				Unpreserved											

**ADDITIONAL COMMENTS**

AP-1-EB-1: 9/12/12 0855  
 AP-1-FB-1: 9/12/12 1055

**ANALYST SIGNATURE AND SIGNATURE**

ANALYST: [Signature] DATE: 9/12/12

REQUESTED BY / APPROVAL: [Signature] DATE: 9/12/12

TEMP nC: [ ]

Received on [ ] (Y/N)

Uniquely Sealed Color [ ] (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>		<b>Section B</b>		<b>Section C</b>	
<b>Required Client Information:</b>		<b>Required Project Information:</b>		<b>Intros Information:</b>	
Company: GA Power	Request To: SCS Contacts	Attention: Southern Co.	Company Name:	Address:	Regulatory Agency:
Address: Atlanta, GA	Copy To: Arcadis Contacts	Project Name: Plant Yates AP-1	Address:	State / Location:	Consent:
Phone: 478-622-6131	Project Number:	Project Order #:	Plant Order #:	Project Order #:	Project Order #:
Facility Name: Yates	Project Name: Plant Yates AP-1	Project Order #:	Plant Order #:	Project Order #:	Project Order #:
Facility Address:	Project Name: Plant Yates AP-1	Project Order #:	Plant Order #:	Project Order #:	Project Order #:
Facility Phone:	Project Name: Plant Yates AP-1	Project Order #:	Plant Order #:	Project Order #:	Project Order #:

ITEM #	MATRIX	CODE	SAMPLE TYPE (Q=Grab C=Comp)	COLLECTED		DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITION
				START	END								
1	YGWC-52	WG G											
2	YGWC-44	WG G											
3	YGWC-45	WG G											
4	YGWC-48A	WG G											
5	AP-1-DUP-1	WE G											
6	AP-1-EB-1	WG G											
7	AP-1-FB-1	WG G											
8		WG G											
9		WG G											
10		WG G											
11		WG G											
12		WG G											

<b>ADDITIONAL COMMENTS</b>		<b>REQUISITIONED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>		<b>ACCEPTED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>			
Arizona State 300 0 (Cl. F. Sullivan)		David W. Jones		9/12/05		1055		David W. Jones		9/12/05		1055			
App III Metals: Boron (BO), Calcium (Ca), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn)		App IV Metals: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Copper (Cu), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn)		App V Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn)		App VI Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn)		App VII Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn)		App VIII Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn)		App IX Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn)		App X Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn)	
<b>SAMPLER NAME AND SIGNATURE</b>		<b>PRINT Name of SAMPLER:</b>		<b>SIGNATURE of SAMPLER:</b>		<b>DATE Signed:</b>		<b>DATE Signed:</b>		<b>DATE Signed:</b>		<b>DATE Signed:</b>			
David W. Jones		David W. Jones		David W. Jones		9/12/05		David W. Jones		9/12/05		9/12/05			

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

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

Section A	Section B	Section C
Required Client Information:	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:	Purchase Order #:	Address:
Phone:	Project Name: Plant Yates AP-1	Pace Quote:
Requested Due Date:	Project Number:	Pace Project Manager: Nicole D'Onofrio
		Pace Profile #: 10840
		State / Location: Georgia
		Regulatory Agency:
		Page: <u>1</u> of <u>1</u>

ITEM #	MATRIX	CODE	START DATE	END DATE	SAMPLE TYPE (G=GRAB C=COMP)	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	ANALYSES TEST	Y/N	Requested Analysis Filtered (Y/N)										TEMP in C	Received on	Ice	Sealed	Custody	(Y/N)							
														Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl F SO4							TDS (2540C)	RAD 9315/9320	Residual Chlorine (Y/N)				
1	YGWC-52	WT G	8/31 1120	-	G	J. Williams / Arcadis	9/11/22	0800	J. Williams / Arcadis	9/11/22	0800	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	YGWC-44	WT G	-	-	G	L. Williams / Arcadis	-	-	L. Williams / Arcadis	-	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
3	YGWC-45	WT G	-	-	G	L. Williams / Arcadis	-	-	L. Williams / Arcadis	-	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
4	YGWC-46A	WT G	8/31 1450	-	G	L. Williams / Arcadis	9/11/22	1053	L. Williams / Arcadis	9/11/22	1053	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
5	AP-1-DUP-1	WT G	8/31	-	G	L. Williams / Arcadis	-	-	L. Williams / Arcadis	-	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
6	AP-1-EB-1	WT G	8/31 1140	-	G	L. Williams / Arcadis	9/11/22	-	L. Williams / Arcadis	9/11/22	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
7	AP-1-FB-1	WT G	8/31 1155	-	G	L. Williams / Arcadis	9/11/22	-	L. Williams / Arcadis	9/11/22	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
8		WT G	-	-	G	L. Williams / Arcadis	-	-	L. Williams / Arcadis	-	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
9		WT G	-	-	G	L. Williams / Arcadis	-	-	L. Williams / Arcadis	-	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
10		WT G	-	-	G	L. Williams / Arcadis	-	-	L. Williams / Arcadis	-	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
11		WT G	-	-	G	L. Williams / Arcadis	-	-	L. Williams / Arcadis	-	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
12		WT G	-	-	G	L. Williams / Arcadis	-	-	L. Williams / Arcadis	-	-	X X X X X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
ADDITIONAL COMMENTS:														Requester: [Signature]																						
Antons Suite 300.0 (Cl F Sulfate)														J. Williams / Arcadis																						
App III Metals: Boron 6020B, Ca 6010D														L. Williams / Arcadis																						
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)														L. Williams / Arcadis																						
SAMPLER NAME AND SIGNATURE: J. Williams														J. Williams																						
PRINT Name of SAMPLER: J. Williams														J. Williams																						
SIGNATURE of SAMPLER: [Signature]														[Signature]																						
DATE Signed: 9/11/22														9/11/22																						





September 20, 2022

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

RE: Project: Plant Yates AP-1  
Pace Project No.: 92623538

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory on September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



Nicole D'Oleo  
nicole.d'oleo@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  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
Kelley Sharpe, ARCADIS - Atlanta  
Alex Simpson, Arcadis  
Michael Smilley, Georgia Power  
Becky Steever, Arcadis

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-1  
Pace Project No.: 92623538

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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

---

### **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-1

Pace Project No.: 92623538

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623538001	YGWC-52	Water	08/31/22 11:20	09/01/22 09:05
92623538002	YGWC-46A	Water	08/31/22 14:50	09/01/22 09:05
92623538003	AP-1-DUP-1	Water	08/31/22 00:00	09/01/22 09:05
92623538004	AP-1 EB-1	Water	08/31/22 11:40	09/01/22 09:05
92623538005	AP-1 FB-1	Water	08/31/22 11:35	09/01/22 09:05
92623538006	YGWC-44	Water	08/31/22 11:25	09/01/22 09:05
92623538007	YGWC-45	Water	08/31/22 15:50	09/01/22 09:05

## REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.

### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-1  
Pace Project No.: 92623538

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623538001	YGWC-52	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623538002	YGWC-46A	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623538003	AP-1-DUP-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623538004	AP-1 EB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623538005	AP-1 FB-1	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623538006	YGWC-44	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623538007	YGWC-45	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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### SAMPLE ANALYTE COUNT

Project: Plant Yates AP-1

Pace Project No.: 92623538

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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

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### SUMMARY OF DETECTION

Project: Plant Yates AP-1

Pace Project No.: 92623538

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92623538001</b>	<b>YGWC-52</b>					
	Performed by	Customer			09/02/22 09:56	
	pH	5.58	Std. Units		09/02/22 09:56	
EPA 6010D	Calcium	41.8	mg/L	1.0	09/15/22 22:31	
EPA 6020B	Barium	0.017	mg/L	0.0050	09/17/22 20:45	
EPA 6020B	Cobalt	0.00096J	mg/L	0.0050	09/17/22 20:45	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	09/17/22 20:45	
SM 2540C-2015	Total Dissolved Solids	266	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	09/09/22 00:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	09/09/22 00:32	
EPA 300.0 Rev 2.1 1993	Sulfate	122	mg/L	3.0	09/09/22 07:06	
<b>92623538002</b>	<b>YGWC-46A</b>					
	Performed by	Customer			09/02/22 09:56	
	pH	6.87	Std. Units		09/02/22 09:56	
EPA 6010D	Calcium	110	mg/L	1.0	09/15/22 22:36	
EPA 6020B	Barium	0.036	mg/L	0.0050	09/17/22 20:51	
EPA 6020B	Boron	2.1	mg/L	0.040	09/17/22 20:51	
EPA 6020B	Cobalt	0.0017J	mg/L	0.0050	09/17/22 20:51	
EPA 6020B	Lithium	0.015J	mg/L	0.030	09/17/22 20:51	
EPA 6020B	Molybdenum	0.0017J	mg/L	0.010	09/17/22 20:51	
SM 2540C-2015	Total Dissolved Solids	948	mg/L	50.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	29.9	mg/L	1.0	09/09/22 00:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/09/22 00:46	
EPA 300.0 Rev 2.1 1993	Sulfate	459	mg/L	9.0	09/09/22 07:47	
<b>92623538003</b>	<b>AP-1-DUP-1</b>					
EPA 6010D	Calcium	105	mg/L	1.0	09/15/22 17:59	M1
EPA 6020B	Barium	0.037	mg/L	0.0050	09/17/22 20:57	
EPA 6020B	Boron	2.1	mg/L	0.040	09/17/22 20:57	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	09/17/22 20:57	
EPA 6020B	Lithium	0.015J	mg/L	0.030	09/17/22 20:57	
EPA 6020B	Molybdenum	0.0018J	mg/L	0.010	09/17/22 20:57	
SM 2540C-2015	Total Dissolved Solids	882	mg/L	50.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	30.0	mg/L	1.0	09/09/22 01:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/09/22 01:00	
EPA 300.0 Rev 2.1 1993	Sulfate	454	mg/L	9.0	09/09/22 08:01	
<b>92623538004</b>	<b>AP-1 EB-1</b>					
EPA 6020B	Boron	0.021J	mg/L	0.040	09/17/22 21:03	
<b>92623538006</b>	<b>YGWC-44</b>					
	Performed by	Customer			09/02/22 09:52	
	pH	5.77	Std. Units		09/02/22 09:52	
EPA 6010D	Calcium	30.8	mg/L	1.0	09/15/22 18:43	
EPA 6020B	Barium	0.073	mg/L	0.0050	09/17/22 21:21	
EPA 6020B	Boron	0.54	mg/L	0.040	09/17/22 21:21	
EPA 6020B	Cobalt	0.00099J	mg/L	0.0050	09/17/22 21:21	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/17/22 21:21	
SM 2540C-2015	Total Dissolved Solids	343	mg/L	25.0	09/05/22 13:05	

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### SUMMARY OF DETECTION

Project: Plant Yates AP-1

Pace Project No.: 92623538

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92623538006</b>	<b>YGWC-44</b>					
EPA 300.0 Rev 2.1 1993	Chloride	14.5	mg/L	1.0	09/09/22 02:51	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	09/09/22 02:51	
EPA 300.0 Rev 2.1 1993	Sulfate	130	mg/L	3.0	09/09/22 08:57	
<b>92623538007</b>	<b>YGWC-45</b>					
	Performed by	Customer			09/02/22 09:52	
	pH	6.56	Std. Units		09/02/22 09:52	
EPA 6010D	Calcium	51.8	mg/L	1.0	09/15/22 18:47	
EPA 6020B	Barium	0.052	mg/L	0.0050	09/17/22 21:39	
EPA 6020B	Boron	0.33	mg/L	0.040	09/17/22 21:39	
EPA 6020B	Cobalt	0.00069J	mg/L	0.0050	09/17/22 21:39	
EPA 6020B	Lithium	0.012J	mg/L	0.030	09/17/22 21:39	
EPA 6020B	Molybdenum	0.0011J	mg/L	0.010	09/17/22 21:39	
SM 2540C-2015	Total Dissolved Solids	445	mg/L	25.0	09/05/22 13:05	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	09/09/22 03:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	09/09/22 03:05	
EPA 300.0 Rev 2.1 1993	Sulfate	177	mg/L	4.0	09/09/22 09:11	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1  
Pace Project No.: 92623538

Sample: YGWC-52		Lab ID: 92623538001		Collected: 08/31/22 11:20		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 09:56		
pH	<b>5.58</b>	Std. Units			1		09/02/22 09:56		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>41.8</b>	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:31	7440-70-2	
<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	09/16/22 11:43	09/17/22 20:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:45	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:45	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:45	7440-47-3	
Cobalt	<b>0.00096J</b>	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:45	7439-92-1	
Lithium	<b>0.0037J</b>	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:45	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:45	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	09/16/22 08:15	09/16/22 13:00	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>266</b>	mg/L	25.0	10.0	1		09/05/22 13:01		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>3.4</b>	mg/L	1.0	0.60	1		09/09/22 00:32	16887-00-6	
Fluoride	<b>0.059J</b>	mg/L	0.10	0.050	1		09/09/22 00:32	16984-48-8	
Sulfate	<b>122</b>	mg/L	3.0	1.5	3		09/09/22 07:06	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1  
Pace Project No.: 92623538

Sample: YGWC-46A		Lab ID: 92623538002		Collected: 08/31/22 14:50		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 09:56		
pH	<b>6.87</b>	Std. Units			1		09/02/22 09:56		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>110</b>	mg/L	1.0	0.12	1	09/15/22 15:08	09/15/22 22:36	7440-70-2	
<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	09/16/22 11:43	09/17/22 20:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:51	7440-38-2	
Barium	<b>0.036</b>	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:51	7440-41-7	
Boron	<b>2.1</b>	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:51	7440-47-3	
Cobalt	<b>0.0017J</b>	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:51	7439-92-1	
Lithium	<b>0.015J</b>	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:51	7439-93-2	
Molybdenum	<b>0.0017J</b>	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:51	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	09/16/22 08:15	09/16/22 13:03	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>948</b>	mg/L	50.0	20.0	1		09/05/22 13:01		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>29.9</b>	mg/L	1.0	0.60	1		09/09/22 00:46	16887-00-6	
Fluoride	<b>0.12</b>	mg/L	0.10	0.050	1		09/09/22 00:46	16984-48-8	
Sulfate	<b>459</b>	mg/L	9.0	4.5	9		09/09/22 07:47	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1  
Pace Project No.: 92623538

Sample: AP-1-DUP-1		Lab ID: 92623538003		Collected: 08/31/22 00:00		Received: 09/01/22 09:05		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									
Calcium	105	mg/L	1.0	0.12	1	09/15/22 14:54	09/15/22 17:59	7440-70-2	M1
<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	09/16/22 11:43	09/17/22 20:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 20:57	7440-38-2	
Barium	0.037	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 20:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 20:57	7440-41-7	
Boron	2.1	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 20:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 20:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 20:57	7440-47-3	
Cobalt	0.0019J	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 20:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 20:57	7439-92-1	
Lithium	0.015J	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 20:57	7439-93-2	
Molybdenum	0.0018J	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 20:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 20:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 20:57	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	09/16/22 08:15	09/16/22 13:06	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	882	mg/L	50.0	20.0	1		09/05/22 13:01		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	30.0	mg/L	1.0	0.60	1		09/09/22 01:00	16887-00-6	
Fluoride	0.12	mg/L	0.10	0.050	1		09/09/22 01:00	16984-48-8	
Sulfate	454	mg/L	9.0	4.5	9		09/09/22 08:01	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1  
Pace Project No.: 92623538

Sample: AP-1 EB-1		Lab ID: 92623538004		Collected: 08/31/22 11:40		Received: 09/01/22 09:05		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								
Calcium	ND	mg/L	1.0	0.12	1	09/15/22 14:54	09/15/22 18:19	7440-70-2		
<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	09/16/22 11:43	09/17/22 21:03	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 21:03	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 21:03	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 21:03	7440-41-7		
Boron	<b>0.021J</b>	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 21:03	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 21:03	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 21:03	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 21:03	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 21:03	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 21:03	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 21:03	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 21:03	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 21:03	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	09/16/22 08:15	09/16/22 13:08	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	10.0	1		09/05/22 13:01			
<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		09/09/22 01:14	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 01:14	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 01:14	14808-79-8		

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1  
Pace Project No.: 92623538

Sample: AP-1 FB-1		Lab ID: 92623538005		Collected: 08/31/22 11:35		Received: 09/01/22 09:05		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								
Calcium	ND	mg/L	1.0	0.12	1	09/15/22 14:54	09/15/22 18:24	7440-70-2		
<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	09/16/22 11:43	09/17/22 21:09	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 21:09	7440-38-2		
Barium	ND	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 21:09	7440-39-3		
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 21:09	7440-41-7		
Boron	ND	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 21:09	7440-42-8		
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 21:09	7440-43-9		
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 21:09	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 21:09	7440-48-4		
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 21:09	7439-92-1		
Lithium	ND	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 21:09	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 21:09	7439-98-7		
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 21:09	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 21:09	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	09/16/22 08:15	09/16/22 13:11	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	10.0	1		09/05/22 13:01			
<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		09/09/22 01:28	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/09/22 01:28	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/09/22 01:28	14808-79-8		

### REPORT OF LABORATORY ANALYSIS

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1  
Pace Project No.: 92623538

Sample: YGWC-44		Lab ID: 92623538006		Collected: 08/31/22 11:25		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 09:52		
pH	<b>5.77</b>	Std. Units			1		09/02/22 09:52		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>30.8</b>	mg/L	1.0	0.12	1	09/15/22 14:54	09/15/22 18:43	7440-70-2	
<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	09/16/22 11:43	09/17/22 21:21	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 21:21	7440-38-2	
Barium	<b>0.073</b>	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 21:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 21:21	7440-41-7	
Boron	<b>0.54</b>	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 21:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 21:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 21:21	7440-47-3	
Cobalt	<b>0.00099J</b>	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 21:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 21:21	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 21:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 21:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 21:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 21:21	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	09/16/22 08:15	09/16/22 13:14	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>343</b>	mg/L	25.0	10.0	1		09/05/22 13:05		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>14.5</b>	mg/L	1.0	0.60	1		09/09/22 02:51	16887-00-6	
Fluoride	<b>0.055J</b>	mg/L	0.10	0.050	1		09/09/22 02:51	16984-48-8	
Sulfate	<b>130</b>	mg/L	3.0	1.5	3		09/09/22 08:57	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates AP-1  
Pace Project No.: 92623538

Sample: YGWC-45		Lab ID: 92623538007		Collected: 08/31/22 15:50		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 09:52		
pH	<b>6.56</b>	Std. Units			1		09/02/22 09:52		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>51.8</b>	mg/L	1.0	0.12	1	09/15/22 14:54	09/15/22 18:47	7440-70-2	
<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	09/16/22 11:43	09/17/22 21:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/16/22 11:43	09/17/22 21:39	7440-38-2	
Barium	<b>0.052</b>	mg/L	0.0050	0.00067	1	09/16/22 11:43	09/17/22 21:39	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/16/22 11:43	09/17/22 21:39	7440-41-7	
Boron	<b>0.33</b>	mg/L	0.040	0.0086	1	09/16/22 11:43	09/17/22 21:39	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/16/22 11:43	09/17/22 21:39	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/16/22 11:43	09/17/22 21:39	7440-47-3	
Cobalt	<b>0.00069J</b>	mg/L	0.0050	0.00039	1	09/16/22 11:43	09/17/22 21:39	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/16/22 11:43	09/17/22 21:39	7439-92-1	
Lithium	<b>0.012J</b>	mg/L	0.030	0.00073	1	09/16/22 11:43	09/17/22 21:39	7439-93-2	
Molybdenum	<b>0.0011J</b>	mg/L	0.010	0.00074	1	09/16/22 11:43	09/17/22 21:39	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/16/22 11:43	09/17/22 21:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/16/22 11:43	09/17/22 21:39	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	09/16/22 08:15	09/16/22 13:16	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>445</b>	mg/L	25.0	10.0	1		09/05/22 13:05		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>5.4</b>	mg/L	1.0	0.60	1		09/09/22 03:05	16887-00-6	
Fluoride	<b>0.10</b>	mg/L	0.10	0.050	1		09/09/22 03:05	16984-48-8	
Sulfate	<b>177</b>	mg/L	4.0	2.0	4		09/09/22 09:11	14808-79-8	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Yates AP-1

Pace Project No.: 92623538

QC Batch:	723576	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623538001, 92623538002

METHOD BLANK: 3770129 Matrix: Water

Associated Lab Samples: 92623538001, 92623538002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/22 20:13	

LABORATORY CONTROL SAMPLE: 3770130

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770131 3770132

Parameter	Units	3770131		3770132		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623294001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	40.6	1	1	40.6	40.8	1	25	75-125	1	20 M1

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### QUALITY CONTROL DATA

Project: Plant Yates AP-1  
Pace Project No.: 92623538

QC Batch: 723581 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

METHOD BLANK: 3770156 Matrix: Water  
Associated Lab Samples: 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/15/22 17:50	

LABORATORY CONTROL SAMPLE: 3770157

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.98J	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3770158 3770159

Parameter	Units	3770158		3770159		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623538003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	105	1	1	104	104	-111	-62	75-125	0	20 M1

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### QUALITY CONTROL DATA

Project: Plant Yates AP-1  
Pace Project No.: 92623538

QC Batch: 723784 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92623538001, 92623538002, 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

METHOD BLANK: 3771287 Matrix: Water  
Associated Lab Samples: 92623538001, 92623538002, 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/17/22 19:16	
Arsenic	mg/L	ND	0.0050	0.0022	09/17/22 19:16	
Barium	mg/L	ND	0.0050	0.00067	09/17/22 19:16	
Beryllium	mg/L	ND	0.00050	0.000054	09/17/22 19:16	
Boron	mg/L	ND	0.040	0.0086	09/17/22 19:16	
Cadmium	mg/L	ND	0.00050	0.00011	09/17/22 19:16	
Chromium	mg/L	ND	0.0050	0.0011	09/17/22 19:16	
Cobalt	mg/L	ND	0.0050	0.00039	09/17/22 19:16	
Lead	mg/L	ND	0.0010	0.00089	09/17/22 19:16	
Lithium	mg/L	ND	0.030	0.00073	09/17/22 19:16	
Molybdenum	mg/L	ND	0.010	0.00074	09/17/22 19:16	
Selenium	mg/L	ND	0.0050	0.0014	09/17/22 19:16	
Thallium	mg/L	ND	0.0010	0.00018	09/17/22 19:16	

LABORATORY CONTROL SAMPLE: 3771288

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	0.096	96	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.090	90	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.098	98	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	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3771521 3771522

Parameter	Units	92623294002 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	0.10	0.10	105	102	75-125	2	20	
Arsenic	mg/L	0.0035J	0.1	0.1	0.10	0.10	100	100	75-125	0	20	

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### QUALITY CONTROL DATA

Project: Plant Yates AP-1

Pace Project No.: 92623538

Parameter	Units	92623294002		3771521		3771522		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec							
Barium	mg/L	0.058	0.1	0.1	0.16	0.16	98	100	75-125	1	20			
Beryllium	mg/L	0.00037J	0.1	0.1	0.093	0.090	93	90	75-125	3	20			
Boron	mg/L	0.015J	1	1	0.92	0.91	91	89	75-125	2	20			
Cadmium	mg/L	0.00026J	0.1	0.1	0.10	0.099	100	98	75-125	1	20			
Chromium	mg/L	0.0015J	0.1	0.1	0.097	0.093	95	92	75-125	4	20			
Cobalt	mg/L	0.00087J	0.1	0.1	0.096	0.092	96	91	75-125	5	20			
Lead	mg/L	ND	0.1	0.1	0.095	0.092	95	92	75-125	3	20			
Lithium	mg/L	0.0019J	0.1	0.1	0.099	0.096	97	94	75-125	3	20			
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	105	102	75-125	3	20			
Selenium	mg/L	0.030	0.1	0.1	0.13	0.13	99	102	75-125	2	20			
Thallium	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	4	20			

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### QUALITY CONTROL DATA

Project: Plant Yates AP-1  
Pace Project No.: 92623538

QC Batch:	723555	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623538001, 92623538002, 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

METHOD BLANK: 3769985 Matrix: Water  
Associated Lab Samples: 92623538001, 92623538002, 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/16/22 12:15	

LABORATORY CONTROL SAMPLE: 3769986

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769987 3769988

Parameter	Units	92623294001		3769987		3769988		% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.	MS Result	MSD Spike Conc.				
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0022	90	88	75-125	2	20

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### QUALITY CONTROL DATA

Project: Plant Yates AP-1  
Pace Project No.: 92623538

QC Batch: 721455      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: 92623538001, 92623538002, 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

METHOD BLANK: 3759030      Matrix: Water  
Associated Lab Samples: 92623538001, 92623538002, 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 12:59	

LABORATORY CONTROL SAMPLE: 3759031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3759032

Parameter	Units	92623226010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33.0	44.0	29	25	D6

SAMPLE DUPLICATE: 3759033

Parameter	Units	92623533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	204	1	25	

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### QUALITY CONTROL DATA

Project: Plant Yates AP-1  
Pace Project No.: 92623538

QC Batch: 722008 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: 92623538001, 92623538002, 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

METHOD BLANK: 3761879 Matrix: Water  
Associated Lab Samples: 92623538001, 92623538002, 92623538003, 92623538004, 92623538005, 92623538006, 92623538007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 21:58	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 21:58	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 21:58	

LABORATORY CONTROL SAMPLE: 3761880

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.2	100	90-110	
Fluoride	mg/L	2.5	2.4	94	90-110	
Sulfate	mg/L	50	50.1	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761881 3761882

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623532006	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	5.5	50	50	57.4	57.9	104	105	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	98	90-110	2	10		
Sulfate	mg/L	67.9	50	50	117	117	99	99	90-110	0	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761883 3761884

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623294009	Result	Spike Conc.	Spike Conc.								
Chloride	mg/L	14.5	50	50	66.1	66.6	103	104	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	94	95	90-110	0	10		
Sulfate	mg/L	280	50	50	326	329	93	100	90-110	1	10		

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

### REPORT OF LABORATORY ANALYSIS

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## QUALIFIERS

Project: Plant Yates AP-1  
Pace Project No.: 92623538

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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-1  
Pace Project No.: 92623538

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623538001	YGWC-52				
92623538002	YGWC-46A				
92623538006	YGWC-44				
92623538007	YGWC-45				
92623538001	YGWC-52	EPA 3010A	723576	EPA 6010D	723671
92623538002	YGWC-46A	EPA 3010A	723576	EPA 6010D	723671
92623538003	AP-1-DUP-1	EPA 3010A	723581	EPA 6010D	723670
92623538004	AP-1 EB-1	EPA 3010A	723581	EPA 6010D	723670
92623538005	AP-1 FB-1	EPA 3010A	723581	EPA 6010D	723670
92623538006	YGWC-44	EPA 3010A	723581	EPA 6010D	723670
92623538007	YGWC-45	EPA 3010A	723581	EPA 6010D	723670
92623538001	YGWC-52	EPA 3005A	723784	EPA 6020B	723868
92623538002	YGWC-46A	EPA 3005A	723784	EPA 6020B	723868
92623538003	AP-1-DUP-1	EPA 3005A	723784	EPA 6020B	723868
92623538004	AP-1 EB-1	EPA 3005A	723784	EPA 6020B	723868
92623538005	AP-1 FB-1	EPA 3005A	723784	EPA 6020B	723868
92623538006	YGWC-44	EPA 3005A	723784	EPA 6020B	723868
92623538007	YGWC-45	EPA 3005A	723784	EPA 6020B	723868
92623538001	YGWC-52	EPA 7470A	723555	EPA 7470A	723745
92623538002	YGWC-46A	EPA 7470A	723555	EPA 7470A	723745
92623538003	AP-1-DUP-1	EPA 7470A	723555	EPA 7470A	723745
92623538004	AP-1 EB-1	EPA 7470A	723555	EPA 7470A	723745
92623538005	AP-1 FB-1	EPA 7470A	723555	EPA 7470A	723745
92623538006	YGWC-44	EPA 7470A	723555	EPA 7470A	723745
92623538007	YGWC-45	EPA 7470A	723555	EPA 7470A	723745
92623538001	YGWC-52	SM 2540C-2015	721455		
92623538002	YGWC-46A	SM 2540C-2015	721455		
92623538003	AP-1-DUP-1	SM 2540C-2015	721455		
92623538004	AP-1 EB-1	SM 2540C-2015	721455		
92623538005	AP-1 FB-1	SM 2540C-2015	721455		
92623538006	YGWC-44	SM 2540C-2015	721455		
92623538007	YGWC-45	SM 2540C-2015	721455		
92623538001	YGWC-52	EPA 300.0 Rev 2.1 1993	722008		
92623538002	YGWC-46A	EPA 300.0 Rev 2.1 1993	722008		
92623538003	AP-1-DUP-1	EPA 300.0 Rev 2.1 1993	722008		
92623538004	AP-1 EB-1	EPA 300.0 Rev 2.1 1993	722008		
92623538005	AP-1 FB-1	EPA 300.0 Rev 2.1 1993	722008		
92623538006	YGWC-44	EPA 300.0 Rev 2.1 1993	722008		
92623538007	YGWC-45	EPA 300.0 Rev 2.1 1993	722008		

### REPORT OF LABORATORY ANALYSIS

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DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta

Sample Condition Upon Receipt

Client Name: GA Power

Project

WO#: 92623538

Courier:  Commercial  Pace  Fed Ex  UPS  USPS  Other:  Client



Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/1/22

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 230

Type of Ice:  Wet  Blue  None

Cooler Temp: 2.5

Correction Factor: Add/Subtract (°C) 0.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.5

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 checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

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

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

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





DC#\_ Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

**WO# : 92623538**

PM: NMG

Due Date: 09/16/22

CLIENT: GA-GA Power

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

Exceptions: VOA, Coliform, TQC, 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

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)	DG94-250 mL Amber NH4Cl (N/A) (Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (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 (9.3-9.1)	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																												
3																												
4																												
5																												
6																												
7																												
8																												
9																												
10																												
11																												
12																												

**pH Adjustment Log for Preserved Samples**

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

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

# CHAIN-OF-CUSTODY / Analytical Request Document

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

<b>Section A</b> Required Client Information:		<b>Section B</b> Required Project Information:	
Company GA Power	Reason To SCS Contacts	Client Information: Mission Southern Co.	Invoice Information: Company Name Southern Co.
Address Atlanta, GA	Copy To Arcadis Contacts	Address Plant Yates AP-1	Address Plant Yates AP-1
Email To B.UGER@ga.gov	Requester Name B.UGER	Project Name Plant Yates AP-1	Project Number 10940
Phone 478.623.1210	Requested Date 1/11/12	Plant Project Manager Nicola D'Ono	Plant Project # 10940
Requested Date 1/11/12	Requested Date 1/11/12	Plant Project # 10940	Plant Project # 10940

ITEM #	MATRIX CODE (see code to left)	SAMPLE TYPE (Q=QTA/C=COM)	COLLECTED		DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	DATE	TIME	RECEIVED ON	TEMP IN C	SAMPLE CONDITION						
			START	END													DATE	TIME	DATE	TIME	DATE	TIME
			DATE	TIME													DATE	TIME	DATE	TIME	DATE	TIME
1	YGWC-52	WG G																				
2	YGWC-44	WG G	1/11/12		11:25																	
3	YGWC-46	WG G	1/11/12		15:50																	
4	YGWC-48A	WG G																				
5	AP-1-DUP-1	WG G																				
6	AP-1-EB-1	WG G																				
7	AP-1-FB-1	WG G																				
8		WG G																				
9		WG G																				
10		WG G																				
11		WG G																				
12		WG G																				

<b>ADDITIONAL COMMENTS</b>		<b>RECEIVED BY / AFFILIATION</b>		<b>DATE</b>		<b>TIME</b>	
Arcadis Suite 300 0 (Cl. F. Sullivan)		B.UGER		1/11/12		11:25	
App III Metals 3000 Ca 60500		B.UGER		1/11/12		15:50	
App IV Metals 90206: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl)		B.UGER		1/11/12		15:50	

<b>SAMPLER NAME AND SIGNATURE</b>		<b>DATE SIGNED</b>	
David Young		1/11/12	
<b>PRINT NAME OF SAMPLER</b>		<b>DATE SIGNED</b>	
David Young		1/11/12	
<b>SIGNATURE OF SAMPLER</b>		<b>DATE SIGNED</b>	
[Signature]		1/11/12	





# Upgradient Wells

August 2022

Georgia Power Co. – Plant Yates

# Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92623226 and 92623277

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina

Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #47077R

Review Level: Tier II

Project: 30143607.3A

## Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92623226 and 92623277 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
YGWA-17S	92623226001 92623277001	Water	8/30/2022		X	X	X
YGWA-18S	92623226002 92623277002	Water	8/30/2022		X	X	X
YGWA-18I	92623226003 92623277003	Water	8/30/2022		X	X	X
GWA-2	92623226004 92623277004	Water	8/30/2022		X	X	X
YGWA-5I	92623226005 92623277005	Water	8/30/2022		X	X	X
YGWA-5D	92623226006 92623277006	Water	8/30/2022		X	X	X
YGWA-21I	92623226007 92623277007	Water	8/30/2022		X	X	X
YGWA-1D	92623226008 92623277008	Water	8/30/2022		X	X	X
YGWA-2I	92623226009 92623277009	Water	8/30/2022		X	X	X
YGWA-30I	92623226010 92623277010	Water	8/31/2022		X	X	X
YGWA-14S	92623226011 92623277011	Water	8/31/2022		X	X	X
YGWA-1L	92623226012 92623277012	Water	8/31/2022		X	X	X

Data Review Report

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YGWA-47	92623226013 92623277013	Water	8/31/2022		X	X	X
YGWA-4I	92623226014 92623277014	Water	8/31/2022		X	X	X
YGWA-20S	92623226015 92623277015	Water	8/31/2022		X	X	X
YGWA-3I	92623226016 92623277018	Water	8/31/2022		X	X	X
YGWA-3D	92623226017 92623277019	Water	8/31/2022		X	X	X
YGWA-39	92623226018 92623277016	Water	8/31/2022		X	X	X
YGWA-40	92623226019 92623277017	Water	8/31/2022		X	X	X

**Notes:**

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



## 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 and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the USEPA National Functional Guidelines for Inorganic Superfund Methods Data Review, EPA 542-R-20-006, November 2020 (with reference to the historical USEPA Contract Laboratory Program National Functional Guidelines for Inorganic Data Review, OSWER 9240.1-45, October 2004, as appropriate).

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

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

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

## Data Review Report

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

## Metals Analyses

### 1. Holding Times

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

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

**Note:**

s.u. = standard units

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
GWA-2	Vanadium (MB)	Detected sample results <RL and <BAL	“UB” at the RL

**Notes:**

MB = Method blank

RL = Reporting limit

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

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

### 3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample YWGA-17S in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWA-18S in association with SW-846 6020B and SW-846 7470A analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed on sample location YGWA-5I in association with SW-846 6010D analysis exhibited recoveries outside of the acceptance limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YGWA-5I	Calcium	73%	AC (85%)

**Note:**

AC = Acceptable

The criteria used to evaluate MS/MSD recoveries are presented in the following table. In the case of an MS/MSD deviation, the sample results are qualified. The qualifications are applied to all sample results associated with the sample preparation batch.

Control limit	Sample Result	Qualification
MS/MSD percent recovery 30% to 74%	Non-detect	UJ
	Detect	J
MS/MSD percent recovery <30%	Non-detect	R
	Detect	J
MS/MSD percent recovery >125%	Non-detect	No Action
	Detect	J

### 3.2 Laboratory Duplicate Analysis

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

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.

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
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

### 2. Blank Contamination

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

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

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

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

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

#### 3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using samples YGWA-18I and YGWA-20S 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 YGWA-17S, YGWA-5D, and YGWA-30I in association with TDS analysis exhibited an RPD or difference in the results within the control limit.

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

### **4. Field Duplicate Analysis**

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

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, 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 YGWA-17S, YGWA-18S, YGWA-18I, GWA-2, YGWA-5I, YGWA-21I, YGWA-1D, YGWA-2I, and YGWA-3D were qualified as “J” since the NAD were less than 1.96. The Radium-228 results in sample YGWA-5D was qualified as “J” since the NAD was between 1.96 and 2.58. No qualifiers were assigned to the Radium-228 results in samples YGWA-30I, YGWA-14S, YGWA-1I, YGWA-47, YGWA-4I, YGWA-39, YGWA-40, and YGWA-3I 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:

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

Where:

$x_1$ ,  $x_2$  = two measured activity concentrations.

$u^2(x_1)$ ,  $u^2(x_2)$  = the combined standard uncertainty of each measurement squared.

Duplicate sample performance is acceptable when the numerical performance indicator calculation yields a value between  $\pm 3$  sigma. Warning limits have been established as  $\pm 2$  sigma.

The laboratory duplicate analysis performed on sample location YGWA-39 in association with SW-846 9315 analysis exhibited acceptable difference between the results.

The laboratory duplicate analysis performed on sample location YGWA-5D in association with SW-846 9320 analysis exhibited acceptable difference between the results.

## 4. Field Duplicate Analysis

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

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

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:

- YGWA-17S, YGWA-18I, GWA-2 – Radium-226
- YGWA-41, YGWA-39, YGWA-3I – Radium-228

- YGWA-18S, YGWA-5I, YGWA-2I – Radium-226 and total Radium
- YGWA-47 – Radium-228 and total Radium
- YGWA-30I, YGWA-14S, YGWA-1I, YGWA-20S, YGWA-40 – 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: November 8, 2022

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PEER REVIEW: Dennis Capria

DATE: November 9, 2022

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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:

**Section B**

**Required Project Information:**  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Purchase Order #:  
 Project Name: Plant Yates Pooled Upgradient  
 Project Number:

**Section C**

**Invoice Information:**  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 Pace Quote:  
 Pace Project Manager: Nicole D'Oleo  
 Pace Profile #: 10840

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

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / . -) Sample ids must be unique</small>	MATRIX <small>Drinking Water DW Water WT Waste Water WW Product P Semi-Solid SL Oil CL Wipe WP Air AR Other OT Tissue TS</small>	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives							Y/N	Requested Analytes Filtered (Y/N)							Residual Chlorine (Y/N)					
						DATE	TIME	DATE	TIME		# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3		Methanol	Other	Analytes Test	App III/IV Metals	Cl. F. SO4	TDS (2540C)	RAO 9315/9320		App I / II (gypsum only)				
1	YGWA-47	WG	G								5	2	3					X	X	X	X										pH:
2	GWA-2	WG	G								5	2	3					X	X	X	X										pH:
3	YGWA-4I	WG	G								5	2	3					X	X	X	X										pH:
4	YGWA-5I	WG	G								5	2	3					X	X	X	X										pH:
5	YGWA-5D	WG	G								5	2	3					X	X	X											pH:
6	YGWA-17S	WG	G	8/30	1540						5	2	3					X	X	X	X										pH: 4.68
7	YGWA-18S	WG	G	8/30	1035						5	2	3					X	X	X	X										pH: 5.18
8	YGWA-18I	WG	G	8/30	1335						5	2	3					X	X	X	X										pH: 5.82
9	YGWA-20S	WG	G								5	2	3					X	X	X	X										pH:
10	YGWA-21I	WG	G								5	2	3					X	X	X	X										pH:
11	YGWA-30I	WG	G								5	2	3					X	X	X	X										pH:
12	YGWA-14S	WG	G								5	2	3					X	X	X	X										pH:

Sample # 11010 23

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	8/31/22	0750	<i>Jessica Ware</i> / Pace	9/1/22	1005	
App III Metals: Boron 6020B, Ca 6010D;	<i>W. Williams</i>	8/31/22	1002	<i>Lyan Williams</i> / Pace	9/2/22	1103	
App VII 6020B: Zn, Ag, Ni, V	<i>Lyan Williams</i> / Pace	8/31/22	1153	<i>Jessica Ware</i>	9/3/22	1153	
App IV Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: <i>Jessica Ware</i>					
SIGNATURE of SAMPLER: <i>Jessica Ware</i>	DATE Signed: <i>8/31/22</i>				

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

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

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**Section A**  
**Required Client Information:**

Company: **GA Power**  
Address: **Allantla, 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**  
Purchase Order #:   
Project Name: **Plant Yates Pooled Upgradient**  
Project Number:

**Section C**  
**Invoice Information:**

Attention: **Southern Co.**  
Company Name:  
Address:  
Pace Quote:  
Pace Project Manager: **Nicole D'Oleo**  
Pace Profile #: **10840**

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

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / . -) Sample ids must be unique</small>	MATRIX CODE <small>(see valid codes to left)</small>	SAMPLE TYPE <small>(G=GRAB C=COMP)</small>	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives								Y/N	Requested Analysis Filtered (Y/N)						Residual Chlorine (Y/N)				
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol		Other	App III/IV Metals	Cl. F. SO4	TDS (2540C)	RAD 9315/9320	App I /II (gypsum only)					
				DATE	TIME	DATE	TIME																					
1	YGWA-47	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
2	GWA-2	WG	G	8/30	1005	-	-	5	2	3							X	X	X	X	X							pH: 5.39
3	YGWA-4I	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
4	YGWA-5I	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
5	YGWA-5D	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
6	YGWA-17S	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
7	YGWA-18S	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
8	YGWA-18I	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
9	YGWA-20S	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
10	YGWA-21I	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
11	YGWA-30I	WG	G	-	-	-	-	5	2	3							X	X	X	X								pH:
12	YGWA-14S	WG	G	-	-	-	-	5	2	3							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)	[Signature] /Arcadis	8/31/22	800	[Signature] /Arcadis	8/31/22	0800	
App III Metals: Boron 6020B, Ca 6010D;	[Signature] /Aus	8/31/22	1003	[Signature] /Pac	9/1/22	1003	
App III 6020B: Zn, Ag, Ni, V	[Signature] /Pac	8/31/22	1153	[Signature] /Pac	8/31/22	1153	
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)							

<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: <b>Jane Swanson</b>					
SIGNATURE of SAMPLER: <b>[Signature]</b>	DATE Signed: <b>8/31/22</b>				



# 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		Report To: SCS Contacts		Attention: Southern Co.			
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name:			
Email To: laucoker@southemco.com		Purchase Order #:		Address:		Regulatory Agency	
Phone: 470.620.6176 Fax:		Project Name: Plant Yates Pooled Upgradient		Face Project Manager: Nicole D'Oleo		State / Location	
Requested Due Date:		Project Number:		Face Profile #: 10840		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										Y/N	Requested Analysis Filtered (Y/N)										Residual Chlorine (Y/N)							
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methano	Other	Analysis Test		App III / V Metals	Cl, F, SO4	TDS (2540C)	RAD 93159320	App I / II (gypsum only)													
				DATE	TIME	DATE	TIME																														
1	YGWA-39	WG	G						5	2	3																										pH:
2	YGWA-40	WG	G						5	2	3																										pH:
3	YGWA-1I	WG	G						5	2	3																										pH:
4	YGWA-1D	WG	G	8/30	1350				5	2	3																										pH: 7.2
5	YGWA-2I	WG	G	8-30	1000				5	2	3																									pH: 7.04	
6	YGWA-3I	WG	G						5	2	3																										pH:
7	YGWA-3D	WG	G						5	2	3																										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)	Whealy Carson / Arcadis	8/31/22	800	J. Williams / Arc	8/31/22	800	
App III Metals: Boron 6020B, Ca 6010D; App VII 6020B: Zn, Ag, Ni, V	Whealy Carson / Arcadis	8/31/22	1803	Ryan Williams / Pace	8/31/22	1803	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Ryan Williams / Pace	8/31/22	1853	J. Williams / Pace	8/31/22	1853	

<b>SAMPLER NAME AND SIGNATURE</b>		<b>TEMP in C</b>	Received on log (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:					
		DATE Signed:			









# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

**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**  
 Purchase Order #:  
 Project Name: **Plant Yates Pooled Upgradient**  
 Project Number:

**Section C**

**Invoice Information:**

Attention: **Southern Co.**  
 Company Name:  
 Address:  
 Pace Quota:  
 Pace Project Manager: **Nicole D'Oleo**  
 Pace Profile #: **10840**

Page : 1 of 2

Regulatory Agency

State / Location

Georgia

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / , -) Sample ids must be unique</small>	MATRIX <small>Drinking Water DW Water WT Waste Water WW Product P Semi-Solid SI Sludge OL Wipe WF Air AR Other OT Tissue TS</small>	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives										Y/N	Requested Analysis Filtered (Y/N)					Residual Chlorine (Y/N)	pH:	
						DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III/IV Metals	Cl, F, SO4		TDS (2540C)	RAD 9315/9320	App I/II (ppysium only)					
1	YGWA-47			WG	G			--	--		5	2		3								X	X	X	X				pH:	
2	GWA-2			WG	G			--	--		5	2		3								X	X	X	X	X				pH:
3	YGWA-4I			WG	G	8/31	1537	--	--		5	2		3								X	X	X	X				pH: 5.50	
4	YGWA-5I			WG	G			--	--		5	2		3								X	X	X	X				pH:	
5	YGWA-5D			WG	G			--	--		5	2		3								X	X	X	X				pH:	
6	YGWA-17S			WG	G			--	--		5	2		3								X	X	X	X				pH:	
7	YGWA-18S			WG	G			--	--		5	2		3								X	X	X	X				pH:	
8	YGWA-18I			WG	G			--	--		5	2		3								X	X	X	X				pH:	
9	YGWA-20S			WG	G	8/31	1258	--	--		5	2		3								X	X	X	X				pH: 5.38	
10	YGWA-21I			WG	G			--	--		5	2		3								X	X	X	X				pH:	
11	YGWA-30I			WG	G			--	--		5	2		3								X	X	X	X				pH:	
12	YGWA-14S			WG	G			--	--		5	2		3								X	X	X	X				pH:	

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Jessica Ware / Arcadis	8/1/22	0800	Wm... / Arc	8/1/22	0800	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	M... / Arc	8/1/22		Bryan Williams / Pace	9/1/22	0905	
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)	Bryan Williams / Pace	8/1/22	1055				

**SAMPLER NAME AND SIGNATURE**

PRINT Name of SAMPLER:  
*Jessica Ware*  
 SIGNATURE of SAMPLER: *Jessica Ware*

DATE Signed: *9/1/22*

TEMP in C

Received on Ice (Y/N)

CHECKED: Sealed Cooler (Y/N)

Samples intact (Y/N)

4 32107  
3726

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

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

Page : 4 of 2

Section A

Section B

Section C

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@southernco.com	Purchase Order #:	Address:
Phone: 470.620.6176 Fax	Project Name: Plant Yates Pooled Upgradient	Pace Quote:
Requested Due Date:	Project Number:	Pace Project Manager: Nicole D'Oleo
		Pace Profile #: 10840

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										ANALYSES TEST	Requested Analysis (Filtered (Y/N))	Residual Chlorine (Y/N)									
				START		END			# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals				Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (arsenium only)					
				DATE	TIME	DATE	TIME																							
1	YGWA-39	WG	G			-	-		5	2	3																			pH:
2	YGWA-40	WG	G			-	-		5	2	3																			pH:
3	YGWA-11	WG	G			-	-		5	2	3																			pH:
4	YGWA-1D	WG	G			-	-		5	2	3																			pH:
5	YGWA-2I	WG	G			-	-		5	2	3																			pH:
6	YGWA-3I	WG	G	8/31	1054	-	-		5	2	3																			pH: 7.49
7	YGWA-3D	WG	G	8/31	0930	-	-		5	2	3																			pH: 7.65
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)	Jessica Ware / Arcadis	9/11/22	0200	Kyan Williams / Pace	9/11/22	0300	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	Kyan Williams / Pace	9/1/22		Kyan Williams / Pace	9/1/22	0905	
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)	Kyan Williams / Pace	9/1/22	1055				

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on Ice (Y/N)	COOLING Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: JESSICA WARE	SIGNATURE of SAMPLER: <i>Jessica Ware</i>				
DATE Signed: 9/11/22					

## 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:

**Section B**

**Required Project Information:**

Report To: **SCS Contacts**  
 Copy To: **Arcadis Contacts**  
 Purchase Order #:  
 Project Name: **Plant Yates Pooled Upgradient**  
 Project Number:

**Section C**

**Invoice Information:**

Attention: **Southern Co.**  
 Company Name:  
 Address:  
 Pace Quota:  
 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)	CODE Drinking Water DW Water WT Waste Water WW Product P Sol/Solid SL Oil OL Wipe WP Air AR Other OT Tissue TS	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	Methanol	Other		Analytes Test	App III / IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320		App I / II (ppysum only)		
				DATE	TIME	DATE	TIME																				
1	YGWA-39	WG	G	8/31/22	1350	-	-	5	2	3								X	X	X	X						pH: 5.30
2	YGWA-40	WG	G	8/31/22	1640	-	-	5	2	3								X	X	X	X						pH: 4.53
3	YGWA-11	WG	G	-	-	-	-	5	2	3								X	X	X	X						pH:
4	YGWA-1D	WG	G	-	-	-	-	5	2	3								X	X	X	X						pH:
5	YGWA-2I	WG	G	-	-	-	-	5	2	3								X	X	X	X						pH:
6	YGWA-3I	WG	G	-	-	-	-	5	2	3								X	X	X	X						pH:
7	YGWA-3D	WG	G	-	-	-	-	5	2	3								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>[Signature]</i> / Arcadis	9/1/22		Ryan Williams / Pace	9/1/22	0905	
App III Metals: Boron 6020B, Ca 6010D. App VII 6020B: Zn, Ag, Ni, V	Ryan Williams / Pace	9/1/22	1055				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se) 7040A: Mercury (Hg)							

SAMPLER NAME AND SIGNATURE		TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples intact (Y/N)
PRINT Name of SAMPLER: Mark Chest					
SIGNATURE of SAMPLER: <i>[Signature]</i>	DATE Signed: 9/1/22				

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92623226	GWA-2	SW846 6020B	Vanadium	0.010	mg/L	UB	Blank contamination
	YGWA-5I	SW846 6010D	Calcium	2.5	mg/L	J	MS %R < LCL
	YGWA-5D	SW846 6010D	Calcium	24.8	mg/L	J	MS %R < LCL
	YGWA-21I	SW846 6010D	Calcium	7.3	mg/L	J	MS %R < LCL
	YGWA-1D	SW846 6010D	Calcium	14.9	mg/L	J	MS %R < LCL
	YGWA-2I	SW846 6010D	Calcium	25.4	mg/L	J	MS %R < LCL
	YGWA-30I	SW846 6010D	Calcium	1.3	mg/L	J	MS %R < LCL
	YGWA-14S	SW846 6010D	Calcium	1.3	mg/L	J	MS %R < LCL
	YGWA-1L	SW846 6010D	Calcium	1.9	mg/L	J	MS %R < LCL
	YGWA-47	SW846 6010D	Calcium	9.6	mg/L	J	MS %R < LCL
	YGWA-4I	SW846 6010D	Calcium	8.9	mg/L	J	MS %R < LCL
	YGWA-20S	SW846 6010D	Calcium	2.4	mg/L	J	MS %R < LCL
	YGWA-3I	SW846 6010D	Calcium	23.5	mg/L	J	MS %R < LCL
	YGWA-3D	SW846 6010D	Calcium	28.7	mg/L	J	MS %R < LCL
	YGWA-39	SW846 6010D	Calcium	16.3	mg/L	J	MS %R < LCL
YGWA-40	SW846 6010D	Calcium	6.2	mg/L	J	MS %R < LCL	
92623277	YGWA-17S	SW846 9320	Radium-228	0.964 +/- 0.357	pCi/L	J	Blank contamination
	YGWA-18S	SW846 9320	Radium-228	0.542 +/- 0.287	pCi/L	J	Blank contamination
	YGWA-18I	SW846 9320	Radium-228	0.961 +/- 0.372	pCi/L	J	Blank contamination
	GWA-2	SW846 9320	Radium-228	1.34 +/- 0.454	pCi/L	J	Blank contamination
	YGWA-5I	SW846 9320	Radium-228	0.644 +/- 0.326	pCi/L	J	Blank contamination
	YGWA-5D	SW846 9320	Radium-228	2.21 +/- 0.587	pCi/L	J	Blank contamination
	YGWA-21I	SW846 9320	Radium-228	0.959 +/- 0.367	pCi/L	J	Blank contamination
	YGWA-1D	SW846 9320	Radium-228	0.579 +/- 0.293	pCi/L	J	Blank contamination
	YGWA-2I	SW846 9320	Radium-228	0.612 +/- 0.309	pCi/L	J	Blank contamination
	YGWA-3D	SW846 9320	Radium-228	0.927 +/- 0.394	pCi/L	J	Blank contamination

**Abbreviations:**

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

**Qualifiers:**

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

September 21, 2022

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

RE: Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



Nicole D'Oleo  
nicole.d'oleo@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  
Kristen Jurinko  
Laura Midkiff, Georgia Power  
Kelley Sharpe, ARCADIS - Atlanta  
Alex Simpson, Arcadis  
Michael Smilley, Georgia Power

Becky Steever, Arcadis  
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.: 92623226

---

### **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,  
without the written consent of Pace Analytical Services, LLC.

## SAMPLE SUMMARY

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623226001	YGWA-17S	Water	08/30/22 15:40	08/31/22 11:03
92623226002	YGWA-18S	Water	08/30/22 10:10	08/31/22 11:03
92623226003	YGWA-18I	Water	08/30/22 13:35	08/31/22 11:03
92623226004	GWA-2	Water	08/30/22 10:05	08/31/22 11:03
92623226005	YGWA-5I	Water	08/30/22 10:52	08/31/22 11:03
92623226006	YGWA-5D	Water	08/30/22 12:05	08/31/22 11:03
92623226007	YGWA-21I	Water	08/30/22 14:30	08/31/22 11:03
92623226008	YGWA-1D	Water	08/30/22 13:50	08/31/22 11:03
92623226009	YGWA-2I	Water	08/30/22 10:00	08/31/22 11:03
92623226010	YGWA-30I	Water	08/31/22 11:30	09/01/22 09:05
92623226011	YGWA-14S	Water	08/31/22 14:15	09/01/22 09:05
92623226012	YGWA-1L	Water	08/31/22 09:10	09/01/22 09:05
92623226013	YGWA-47	Water	08/31/22 09:15	09/01/22 09:05
92623226014	YGWA-4I	Water	08/31/22 15:37	09/01/22 09:05
92623226015	YGWA-20S	Water	08/31/22 12:57	09/01/22 09:05
92623226016	YGWA-3I	Water	08/31/22 10:54	09/01/22 09:05
92623226017	YGWA-3D	Water	08/31/22 09:30	09/01/22 09:05
92623226018	YGWA-39	Water	08/31/22 13:50	09/01/22 09:05
92623226019	YGWA-40	Water	08/31/22 16:40	09/01/22 09:05

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226001	YGWA-17S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226002	YGWA-18S	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226003	YGWA-18I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226004	GWA-2	EPA 6010D	KH	1
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226005	YGWA-5I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226006	YGWA-5D	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226007	YGWA-21I	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226008	YGWA-1D	EPA 6010D	KH	1
		EPA 6020B	CW1	13

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226009	YGWA-2I	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92623226010	YGWA-30I	SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226011	YGWA-14S	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92623226012	YGWA-1L	EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
92623226013	YGWA-47	EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
92623226014	YGWA-4I	EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
92623226015	YGWA-20S	SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92623226016	YGWA-3I	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226017	YGWA-3D	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226018	YGWA-39	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
92623226019	YGWA-40	EPA 300.0 Rev 2.1 1993	CDC	3
		EPA 6010D	KH	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	BTS	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92623226001</b>	<b>YGWA-17S</b>					
	Performed by	Customer			08/31/22 15:58	
	pH	4.68	Std. Units		08/31/22 15:58	
EPA 6010D	Calcium	3.0	mg/L	1.0	09/12/22 21:17	
EPA 6020B	Barium	0.017	mg/L	0.0050	09/13/22 20:15	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	09/13/22 20:15	
EPA 6020B	Boron	0.013J	mg/L	0.040	09/13/22 20:15	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	12.0	mg/L	1.0	09/08/22 01:38	
EPA 300.0 Rev 2.1 1993	Sulfate	4.7	mg/L	1.0	09/08/22 01:38	
<b>92623226002</b>	<b>YGWA-18S</b>					
	Performed by	Customer			08/31/22 15:58	
	pH	5.18	Std. Units		08/31/22 15:58	
EPA 6010D	Calcium	0.77J	mg/L	1.0	09/12/22 21:36	
EPA 6020B	Barium	0.012	mg/L	0.0050	09/16/22 15:01	
EPA 6020B	Beryllium	0.000082J	mg/L	0.00050	09/15/22 20:19	
EPA 6020B	Boron	0.014J	mg/L	0.040	09/15/22 20:19	
EPA 6020B	Chromium	0.0015J	mg/L	0.0050	09/15/22 20:19	
EPA 6020B	Lithium	0.0014J	mg/L	0.030	09/15/22 20:19	
SM 2540C-2015	Total Dissolved Solids	52.0	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	7.0	mg/L	1.0	09/08/22 01:52	
EPA 300.0 Rev 2.1 1993	Sulfate	1.3	mg/L	1.0	09/08/22 01:52	
<b>92623226003</b>	<b>YGWA-18I</b>					
	Performed by	Customer			08/31/22 15:59	
	pH	5.82	Std. Units		08/31/22 15:59	
EPA 6010D	Calcium	5.7	mg/L	1.0	09/12/22 21:41	
EPA 6020B	Barium	0.017	mg/L	0.0050	09/15/22 20:43	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	09/15/22 20:43	
SM 2540C-2015	Total Dissolved Solids	100	mg/L	25.0	09/02/22 11:11	
EPA 300.0 Rev 2.1 1993	Chloride	7.9	mg/L	1.0	09/08/22 02:06	
EPA 300.0 Rev 2.1 1993	Sulfate	0.78J	mg/L	1.0	09/08/22 02:06	
<b>92623226004</b>	<b>GWA-2</b>					
	Performed by	Customer			08/31/22 15:59	
	pH	5.39	Std. Units		08/31/22 15:59	
EPA 6010D	Calcium	23.5	mg/L	1.0	09/12/22 21:55	
EPA 6020B	Arsenic	0.0024J	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Barium	0.031	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Cobalt	0.075	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Lithium	0.0025J	mg/L	0.030	09/15/22 20:49	
EPA 6020B	Nickel	0.015	mg/L	0.0050	09/15/22 20:49	
EPA 6020B	Vanadium	0.0026J	mg/L	0.010	09/15/22 20:49	B
EPA 6020B	Zinc	0.011	mg/L	0.010	09/15/22 20:49	
SM 2540C-2015	Total Dissolved Solids	244	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/08/22 02:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	09/08/22 02:48	
EPA 300.0 Rev 2.1 1993	Sulfate	101	mg/L	2.0	09/08/22 07:36	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92623226005</b>	<b>YGWA-5I</b>					
	Performed by	Customer			08/31/22 16:00	
	pH	5.00	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	2.5	mg/L	1.0	09/14/22 18:34	M1
EPA 6020B	Barium	0.017	mg/L	0.0050	09/15/22 20:55	
EPA 6020B	Lithium	0.0035J	mg/L	0.030	09/15/22 20:55	
SM 2540C-2015	Total Dissolved Solids	86.0	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/08/22 03:02	
EPA 300.0 Rev 2.1 1993	Sulfate	2.4	mg/L	1.0	09/08/22 03:02	
<b>92623226006</b>	<b>YGWA-5D</b>					
	Performed by	Customer			08/31/22 16:00	
	pH	7.40	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	24.8	mg/L	1.0	09/14/22 18:53	
EPA 6020B	Arsenic	0.0031J	mg/L	0.0050	09/15/22 21:01	
EPA 6020B	Barium	0.0079	mg/L	0.0050	09/15/22 21:01	
EPA 6020B	Boron	0.0098J	mg/L	0.040	09/15/22 21:01	
EPA 6020B	Lithium	0.0068J	mg/L	0.030	09/15/22 21:01	
EPA 6020B	Molybdenum	0.00089J	mg/L	0.010	09/15/22 21:01	
SM 2540C-2015	Total Dissolved Solids	148	mg/L	25.0	09/06/22 14:51	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/08/22 03:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	09/08/22 03:44	
EPA 300.0 Rev 2.1 1993	Sulfate	5.7	mg/L	1.0	09/08/22 03:44	
<b>92623226007</b>	<b>YGWA-21I</b>					
	Performed by	Customer			08/31/22 16:00	
	pH	6.58	Std. Units		08/31/22 16:00	
EPA 6010D	Calcium	7.3	mg/L	1.0	09/14/22 18:58	
EPA 6020B	Antimony	0.0046	mg/L	0.0030	09/15/22 21:19	
EPA 6020B	Arsenic	0.0022J	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Barium	0.0085	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Boron	0.012J	mg/L	0.040	09/15/22 21:19	
EPA 6020B	Cobalt	0.0066	mg/L	0.0050	09/15/22 21:19	
EPA 6020B	Lithium	0.0079J	mg/L	0.030	09/15/22 21:19	
SM 2540C-2015	Total Dissolved Solids	122	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	2.4	mg/L	1.0	09/08/22 03:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	09/08/22 03:58	
EPA 300.0 Rev 2.1 1993	Sulfate	3.2	mg/L	1.0	09/08/22 03:58	
<b>92623226008</b>	<b>YGWA-1D</b>					
	Performed by	Customer			08/31/22 16:01	
	pH	7.2	Std. Units		08/31/22 16:01	
EPA 6010D	Calcium	14.9	mg/L	1.0	09/14/22 19:12	
EPA 6020B	Barium	0.0066	mg/L	0.0050	09/15/22 21:25	
EPA 6020B	Chromium	0.0011J	mg/L	0.0050	09/15/22 21:25	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/15/22 21:25	
EPA 6020B	Molybdenum	0.0094J	mg/L	0.010	09/15/22 21:25	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 04:12	
EPA 300.0 Rev 2.1 1993	Fluoride	0.093J	mg/L	0.10	09/08/22 04:12	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92623226008</b>	<b>YGWA-1D</b>					
EPA 300.0 Rev 2.1 1993	Sulfate	10.2	mg/L	1.0	09/08/22 04:12	
<b>92623226009</b>	<b>YGWA-2I</b>					
	Performed by	Customer			08/31/22 16:01	
	pH	7.04	Std. Units		08/31/22 16:01	
EPA 6010D	Calcium	25.4	mg/L	1.0	09/14/22 19:17	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	09/15/22 21:31	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/15/22 21:31	
EPA 6020B	Lithium	0.0044J	mg/L	0.030	09/15/22 21:31	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	09/15/22 21:31	
SM 2540C-2015	Total Dissolved Solids	153	mg/L	25.0	09/02/22 11:12	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	09/08/22 04:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	09/08/22 04:26	
EPA 300.0 Rev 2.1 1993	Sulfate	20.1	mg/L	1.0	09/08/22 04:26	
<b>92623226010</b>	<b>YGWA-30I</b>					
	Performed by	Customer			09/02/22 10:43	
	pH	5.87	Std. Units		09/02/22 10:43	
EPA 6010D	Calcium	1.3	mg/L	1.0	09/14/22 19:22	
EPA 6020B	Barium	0.0068	mg/L	0.0050	09/15/22 21:37	
EPA 6020B	Cobalt	0.0040J	mg/L	0.0050	09/15/22 21:37	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	09/15/22 21:37	
SM 2540C-2015	Total Dissolved Solids	33.0	mg/L	25.0	09/05/22 13:00	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	09/08/22 17:05	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	09/08/22 17:05	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	09/08/22 17:05	
<b>92623226011</b>	<b>YGWA-14S</b>					
	Performed by	Customer			09/02/22 10:45	
	pH	5.15	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	1.3	mg/L	1.0	09/14/22 19:27	
EPA 6020B	Barium	0.0075	mg/L	0.0050	09/16/22 15:19	
EPA 6020B	Beryllium	0.00020J	mg/L	0.00050	09/16/22 15:19	
EPA 6020B	Boron	0.015J	mg/L	0.040	09/16/22 15:19	
SM 2540C-2015	Total Dissolved Solids	51.0	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	09/08/22 17:47	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	09/08/22 17:47	
EPA 300.0 Rev 2.1 1993	Sulfate	5.8	mg/L	1.0	09/08/22 17:47	
<b>92623226012</b>	<b>YGWA-1L</b>					
	Performed by	Customer			09/02/22 10:45	
	pH	5.64	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	1.9	mg/L	1.0	09/14/22 19:31	
EPA 6020B	Barium	0.0074	mg/L	0.0050	09/16/22 15:25	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	09/16/22 15:25	
EPA 6020B	Molybdenum	0.0055J	mg/L	0.010	09/16/22 15:25	
SM 2540C-2015	Total Dissolved Solids	46.0	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	09/08/22 18:01	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 18:01	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92623226012</b>	<b>YGWA-1L</b>					
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	09/08/22 18:01	
<b>92623226013</b>	<b>YGWA-47</b>					
	Performed by	Customer			09/02/22 10:45	
	pH	5.32	Std. Units		09/02/22 10:45	
EPA 6010D	Calcium	9.6	mg/L	1.0	09/14/22 19:36	
EPA 6020B	Barium	0.029	mg/L	0.0050	09/16/22 15:30	
EPA 6020B	Boron	0.0091J	mg/L	0.040	09/16/22 15:30	
EPA 6020B	Cobalt	0.00096J	mg/L	0.0050	09/16/22 15:30	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	09/16/22 15:30	
SM 2540C-2015	Total Dissolved Solids	116	mg/L	25.0	09/05/22 13:00	
EPA 300.0 Rev 2.1 1993	Chloride	3.5	mg/L	1.0	09/08/22 18:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 18:15	
EPA 300.0 Rev 2.1 1993	Sulfate	48.0	mg/L	1.0	09/08/22 18:15	
<b>92623226014</b>	<b>YGWA-4I</b>					
	Performed by	Customer			09/02/22 10:46	
	pH	5.50	Std. Units		09/02/22 10:46	
EPA 6010D	Calcium	8.9	mg/L	1.0	09/14/22 19:41	
EPA 6020B	Barium	0.013	mg/L	0.0050	09/16/22 15:36	
EPA 6020B	Lithium	0.013J	mg/L	0.030	09/16/22 15:36	
SM 2540C-2015	Total Dissolved Solids	92.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	4.4	mg/L	1.0	09/08/22 18:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.10	09/08/22 18:29	
EPA 300.0 Rev 2.1 1993	Sulfate	8.0	mg/L	1.0	09/08/22 18:29	
<b>92623226015</b>	<b>YGWA-20S</b>					
	Performed by	Customer			09/02/22 10:46	
	pH	5.38	Std. Units		09/02/22 10:46	
EPA 6010D	Calcium	2.4	mg/L	1.0	09/14/22 19:46	
EPA 6020B	Barium	0.011	mg/L	0.0050	09/15/22 22:07	
SM 2540C-2015	Total Dissolved Solids	62.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	09/08/22 18:43	
<b>92623226016</b>	<b>YGWA-3I</b>					
	Performed by	Customer			09/02/22 10:47	
	pH	7.49	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	23.5	mg/L	1.0	09/14/22 19:50	
EPA 6020B	Barium	0.0030J	mg/L	0.0050	09/15/22 22:12	
EPA 6020B	Lithium	0.022J	mg/L	0.030	09/16/22 15:48	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	09/15/22 22:12	
SM 2540C-2015	Total Dissolved Solids	137	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 19:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.13	mg/L	0.10	09/08/22 19:24	
EPA 300.0 Rev 2.1 1993	Sulfate	13.9	mg/L	1.0	09/08/22 19:24	
<b>92623226017</b>	<b>YGWA-3D</b>					
	Performed by	Customer			09/02/22 10:47	
	pH	7.65	Std. Units		09/02/22 10:47	

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### SUMMARY OF DETECTION

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
<b>92623226017</b>	<b>YGWA-3D</b>					
EPA 6010D	Calcium	28.7	mg/L	1.0	09/14/22 20:05	
EPA 6020B	Arsenic	0.0028J	mg/L	0.0050	09/15/22 22:30	
EPA 6020B	Barium	0.0048J	mg/L	0.0050	09/15/22 22:30	
EPA 6020B	Lithium	0.021J	mg/L	0.030	09/15/22 22:30	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	09/15/22 22:30	
SM 2540C-2015	Total Dissolved Solids	141	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	09/08/22 19:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.42	mg/L	0.10	09/08/22 19:38	
EPA 300.0 Rev 2.1 1993	Sulfate	6.9	mg/L	1.0	09/08/22 19:38	
<b>92623226018</b>	<b>YGWA-39</b>					
	Performed by	Customer			09/02/22 10:47	
	pH	5.30	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	16.3	mg/L	1.0	09/14/22 20:09	
EPA 6020B	Arsenic	0.0029J	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Boron	0.14	mg/L	0.040	09/15/22 22:36	
EPA 6020B	Cadmium	0.00044J	mg/L	0.00050	09/15/22 22:36	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	09/15/22 22:36	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	09/15/22 22:36	
EPA 6020B	Molybdenum	0.0036J	mg/L	0.010	09/15/22 22:36	
SM 2540C-2015	Total Dissolved Solids	242	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	09/08/22 19:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.065J	mg/L	0.10	09/08/22 19:52	
EPA 300.0 Rev 2.1 1993	Sulfate	10.9	mg/L	1.0	09/08/22 19:52	
<b>92623226019</b>	<b>YGWA-40</b>					
	Performed by	Customer			09/02/22 10:47	
	pH	4.53	Std. Units		09/02/22 10:47	
EPA 6010D	Calcium	6.2	mg/L	1.0	09/14/22 20:14	
EPA 6020B	Barium	0.035	mg/L	0.0050	09/15/22 22:42	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	09/15/22 22:42	
EPA 6020B	Boron	0.062	mg/L	0.040	09/15/22 22:42	
EPA 7470A	Mercury	0.00064	mg/L	0.00020	09/16/22 12:13	
SM 2540C-2015	Total Dissolved Solids	92.0	mg/L	25.0	09/05/22 13:01	
EPA 300.0 Rev 2.1 1993	Chloride	6.3	mg/L	1.0	09/08/22 20:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.050J	mg/L	0.10	09/08/22 20:34	
EPA 300.0 Rev 2.1 1993	Sulfate	17.9	mg/L	1.0	09/08/22 20:34	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-17S		Lab ID: 92623226001		Collected: 08/30/22 15:40		Received: 08/31/22 11:03		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>Customer</b>				1		08/31/22 15:58		
pH	<b>4.68</b>	Std. Units			1		08/31/22 15:58		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>3.0</b>	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:17	7440-70-2	
<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	09/12/22 18:08	09/13/22 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/12/22 18:08	09/13/22 20:15	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	09/12/22 18:08	09/13/22 20:15	7440-39-3	
Beryllium	<b>0.00010J</b>	mg/L	0.00050	0.000054	1	09/12/22 18:08	09/13/22 20:15	7440-41-7	
Boron	<b>0.013J</b>	mg/L	0.040	0.0086	1	09/12/22 18:08	09/13/22 20:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/12/22 18:08	09/13/22 20:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/12/22 18:08	09/13/22 20:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/12/22 18:08	09/13/22 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/12/22 18:08	09/13/22 20:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/12/22 18:08	09/13/22 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/12/22 18:08	09/13/22 20:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/12/22 18:08	09/13/22 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/12/22 18:08	09/13/22 20:15	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	09/15/22 16:00	09/16/22 11:06	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>81.0</b>	mg/L	25.0	10.0	1		09/02/22 11:11		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>12.0</b>	mg/L	1.0	0.60	1		09/08/22 01:38	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 01:38	16984-48-8	
Sulfate	<b>4.7</b>	mg/L	1.0	0.50	1		09/08/22 01:38	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-18S		Lab ID: 92623226002		Collected: 08/30/22 10:10		Received: 08/31/22 11:03		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>Customer</b>				1		08/31/22 15:58		
pH	<b>5.18</b>	Std. Units			1		08/31/22 15:58		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>0.77J</b>	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:36	7440-70-2	
<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	09/13/22 18:29	09/16/22 15:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:19	7440-38-2	
Barium	<b>0.012</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:01	7440-39-3	
Beryllium	<b>0.00082J</b>	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:19	7440-41-7	
Boron	<b>0.014J</b>	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:19	7440-43-9	
Chromium	<b>0.0015J</b>	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:19	7439-92-1	
Lithium	<b>0.0014J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:19	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	09/15/22 16:00	09/16/22 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>52.0</b>	mg/L	25.0	10.0	1		09/02/22 11:11		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>7.0</b>	mg/L	1.0	0.60	1		09/08/22 01:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 01:52	16984-48-8	
Sulfate	<b>1.3</b>	mg/L	1.0	0.50	1		09/08/22 01:52	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-181		Lab ID: 92623226003		Collected: 08/30/22 13:35		Received: 08/31/22 11:03		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>Customer</b>				1		08/31/22 15:59		
pH	<b>5.82</b>	Std. Units			1		08/31/22 15:59		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>5.7</b>	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:41	7440-70-2	
<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	09/13/22 18:29	09/15/22 20:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:07	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:07	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:43	7439-92-1	
Lithium	<b>0.0036J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:43	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	09/15/22 16:00	09/16/22 11:20	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>100</b>	mg/L	25.0	10.0	1		09/02/22 11:11		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>7.9</b>	mg/L	1.0	0.60	1		09/08/22 02:06	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 02:06	16984-48-8	
Sulfate	<b>0.78J</b>	mg/L	1.0	0.50	1		09/08/22 02:06	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: GWA-2		Lab ID: 92623226004		Collected: 08/30/22 10:05		Received: 08/31/22 11:03		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>Customer</b>				1		08/31/22 15:59		
pH	<b>5.39</b>	Std. Units			1		08/31/22 15:59		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>23.5</b>	mg/L	1.0	0.12	1	09/12/22 16:20	09/12/22 21:55	7440-70-2	
<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	09/13/22 18:29	09/15/22 20:49	7440-36-0	
Arsenic	<b>0.0024J</b>	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:49	7440-38-2	
Barium	<b>0.031</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 20:49	7440-47-3	
Cobalt	<b>0.075</b>	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 20:49	7440-48-4	
Copper	ND	mg/L	0.0050	0.0010	1	09/13/22 18:29	09/15/22 20:49	7440-50-8	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:49	7439-92-1	
Lithium	<b>0.0025J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:49	7439-98-7	
Nickel	<b>0.015</b>	mg/L	0.0050	0.00071	1	09/13/22 18:29	09/15/22 20:49	7440-02-0	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:49	7782-49-2	
Silver	ND	mg/L	0.0050	0.00044	1	09/13/22 18:29	09/15/22 20:49	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:49	7440-28-0	
Vanadium	<b>0.0026J</b>	mg/L	0.010	0.0019	1	09/13/22 18:29	09/15/22 20:49	7440-62-2	B
Zinc	<b>0.011</b>	mg/L	0.010	0.0070	1	09/13/22 18:29	09/15/22 20:49	7440-66-6	
<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	09/15/22 16:00	09/16/22 11:23	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>244</b>	mg/L	25.0	10.0	1		09/02/22 11:12		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>6.3</b>	mg/L	1.0	0.60	1		09/08/22 02:48	16887-00-6	
Fluoride	<b>0.086J</b>	mg/L	0.10	0.050	1		09/08/22 02:48	16984-48-8	
Sulfate	<b>101</b>	mg/L	2.0	1.0	2		09/08/22 07:36	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-5I		Lab ID: 92623226005		Collected: 08/30/22 10:52		Received: 08/31/22 11:03		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>Customer</b>				1		08/31/22 16:00		
pH	<b>5.00</b>	Std. Units			1		08/31/22 16:00		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>2.5</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:34	7440-70-2	M1
<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	09/13/22 18:29	09/15/22 20:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 20:55	7440-38-2	
Barium	<b>0.017</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 20:55	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 20:55	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 20:55	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 20:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 20:55	7439-92-1	
Lithium	<b>0.0035J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 20:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 20:55	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 20:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 20:55	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	09/15/22 16:00	09/16/22 11:31	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>86.0</b>	mg/L	25.0	10.0	1		09/02/22 11:12		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>4.4</b>	mg/L	1.0	0.60	1		09/08/22 03:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 03:02	16984-48-8	
Sulfate	<b>2.4</b>	mg/L	1.0	0.50	1		09/08/22 03:02	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-5D		Lab ID: 92623226006		Collected: 08/30/22 12:05		Received: 08/31/22 11:03		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>Customer</b>				1		08/31/22 16:00		
pH	<b>7.40</b>	Std. Units			1		08/31/22 16:00		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>24.8</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:53	7440-70-2	
<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	09/13/22 18:29	09/15/22 21:01	7440-36-0	
Arsenic	<b>0.0031J</b>	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:01	7440-38-2	
Barium	<b>0.0079</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:01	7440-41-7	
Boron	<b>0.0098J</b>	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:01	7439-92-1	
Lithium	<b>0.0068J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:01	7439-93-2	
Molybdenum	<b>0.00089J</b>	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:01	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	09/15/22 16:00	09/16/22 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>148</b>	mg/L	25.0	10.0	1		09/06/22 14:51		
<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		09/08/22 03:44	16887-00-6	
Fluoride	<b>0.085J</b>	mg/L	0.10	0.050	1		09/08/22 03:44	16984-48-8	
Sulfate	<b>5.7</b>	mg/L	1.0	0.50	1		09/08/22 03:44	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-211		Lab ID: 92623226007		Collected: 08/30/22 14:30		Received: 08/31/22 11:03		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>Customer</b>				1		08/31/22 16:00		
pH	<b>6.58</b>	Std. Units			1		08/31/22 16:00		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>7.3</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 18:58	7440-70-2	
<b>6020 MET ICPMS</b>									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	<b>0.0046</b>	mg/L	0.0030	0.00078	1	09/13/22 18:29	09/15/22 21:19	7440-36-0	
Arsenic	<b>0.0022J</b>	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:19	7440-38-2	
Barium	<b>0.0085</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:19	7440-41-7	
Boron	<b>0.012J</b>	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:19	7440-47-3	
Cobalt	<b>0.0066</b>	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:19	7439-92-1	
Lithium	<b>0.0079J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:19	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	09/15/22 16:00	09/16/22 11:36	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>122</b>	mg/L	25.0	10.0	1		09/02/22 11:12		
<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		09/08/22 03:58	16887-00-6	
Fluoride	<b>0.10</b>	mg/L	0.10	0.050	1		09/08/22 03:58	16984-48-8	
Sulfate	<b>3.2</b>	mg/L	1.0	0.50	1		09/08/22 03:58	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-1D		Lab ID: 92623226008		Collected: 08/30/22 13:50		Received: 08/31/22 11:03		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>Customer</b>				1		08/31/22 16:01		
pH	<b>7.2</b>	Std. Units			1		08/31/22 16:01		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>14.9</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:12	7440-70-2	
<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	09/13/22 18:29	09/15/22 21:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:25	7440-38-2	
Barium	<b>0.0066</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:25	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:25	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:25	7440-43-9	
Chromium	<b>0.0011J</b>	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:25	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:25	7439-93-2	
Molybdenum	<b>0.0094J</b>	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:25	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	09/15/22 16:00	09/16/22 11:39	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	10.0	1		09/02/22 11:12		
<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		09/08/22 04:12	16887-00-6	
Fluoride	<b>0.093J</b>	mg/L	0.10	0.050	1		09/08/22 04:12	16984-48-8	
Sulfate	<b>10.2</b>	mg/L	1.0	0.50	1		09/08/22 04:12	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-2I		Lab ID: 92623226009		Collected: 08/30/22 10:00		Received: 08/31/22 11:03		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>Customer</b>				1		08/31/22 16:01		
pH	<b>7.04</b>	Std. Units			1		08/31/22 16:01		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>25.4</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:17	7440-70-2	
<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	09/13/22 18:29	09/15/22 21:31	7440-36-0	
Arsenic	<b>0.0027J</b>	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:31	7440-38-2	
Barium	<b>0.0030J</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:31	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:31	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:31	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:31	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:31	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:31	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:31	7439-92-1	
Lithium	<b>0.0044J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:31	7439-93-2	
Molybdenum	<b>0.0068J</b>	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:31	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:31	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:31	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	09/15/22 16:00	09/16/22 11:41	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>153</b>	mg/L	25.0	10.0	1		09/02/22 11:12		
<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		09/08/22 04:26	16887-00-6	
Fluoride	<b>0.12</b>	mg/L	0.10	0.050	1		09/08/22 04:26	16984-48-8	
Sulfate	<b>20.1</b>	mg/L	1.0	0.50	1		09/08/22 04:26	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-30I		Lab ID: 92623226010		Collected: 08/31/22 11:30		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:43		
pH	<b>5.87</b>	Std. Units			1		09/02/22 10:43		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>1.3</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:22	7440-70-2	
<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	09/13/22 18:29	09/15/22 21:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:37	7440-38-2	
Barium	<b>0.0068</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 21:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 21:37	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 21:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 21:37	7440-47-3	
Cobalt	<b>0.0040J</b>	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 21:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:37	7439-92-1	
Lithium	<b>0.0012J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 21:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 21:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:37	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	09/15/22 16:00	09/16/22 11:44	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>33.0</b>	mg/L	25.0	10.0	1		09/05/22 13:00		D6
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>1.8</b>	mg/L	1.0	0.60	1		09/08/22 17:05	16887-00-6	
Fluoride	<b>0.060J</b>	mg/L	0.10	0.050	1		09/08/22 17:05	16984-48-8	
Sulfate	<b>1.1</b>	mg/L	1.0	0.50	1		09/08/22 17:05	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-14S		Lab ID: 92623226011		Collected: 08/31/22 14:15		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:45		
pH	<b>5.15</b>	Std. Units			1		09/02/22 10:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>1.3</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:27	7440-70-2	
<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	09/13/22 18:29	09/16/22 15:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 21:43	7440-38-2	
Barium	<b>0.0075</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:19	7440-39-3	
Beryllium	<b>0.00020J</b>	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:19	7440-41-7	
Boron	<b>0.015J</b>	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:19	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 21:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:43	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	09/15/22 16:00	09/16/22 11:46	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>51.0</b>	mg/L	25.0	10.0	1		09/05/22 13:00		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>4.6</b>	mg/L	1.0	0.60	1		09/08/22 17:47	16887-00-6	
Fluoride	<b>0.053J</b>	mg/L	0.10	0.050	1		09/08/22 17:47	16984-48-8	
Sulfate	<b>5.8</b>	mg/L	1.0	0.50	1		09/08/22 17:47	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-1L		Lab ID: 92623226012		Collected: 08/31/22 09:10		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:45		
pH	<b>5.64</b>	Std. Units			1		09/02/22 10:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>1.9</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:31	7440-70-2	
<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	09/13/22 18:29	09/16/22 15:25	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:25	7440-38-2	
Barium	<b>0.0074</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:25	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	09/13/22 18:29	09/17/22 03:08	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	09/13/22 18:29	09/17/22 03:08	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:25	7440-47-3	
Cobalt	<b>0.00085J</b>	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:49	7439-92-1	
Lithium	ND	mg/L	0.15	0.0036	5	09/13/22 18:29	09/17/22 03:08	7439-93-2	
Molybdenum	<b>0.0055J</b>	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:49	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	09/15/22 16:00	09/16/22 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>46.0</b>	mg/L	25.0	10.0	1		09/05/22 13:00		
<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		09/08/22 18:01	16887-00-6	
Fluoride	<b>0.065J</b>	mg/L	0.10	0.050	1		09/08/22 18:01	16984-48-8	
Sulfate	<b>4.8</b>	mg/L	1.0	0.50	1		09/08/22 18:01	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-47		Lab ID: 92623226013		Collected: 08/31/22 09:15		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:45		
pH	<b>5.32</b>	Std. Units			1		09/02/22 10:45		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>9.6</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:36	7440-70-2	
<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	09/13/22 18:29	09/16/22 15:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:30	7440-38-2	
Barium	<b>0.029</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:30	7440-41-7	
Boron	<b>0.0091J</b>	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 21:55	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:30	7440-47-3	
Cobalt	<b>0.00096J</b>	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 21:55	7439-92-1	
Lithium	<b>0.0037J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 21:55	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	09/15/22 16:00	09/16/22 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>116</b>	mg/L	25.0	10.0	1		09/05/22 13:00		
<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		09/08/22 18:15	16887-00-6	
Fluoride	<b>0.065J</b>	mg/L	0.10	0.050	1		09/08/22 18:15	16984-48-8	
Sulfate	<b>48.0</b>	mg/L	1.0	0.50	1		09/08/22 18:15	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-4I		Lab ID: 92623226014		Collected: 08/31/22 15:37		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:46		
pH	<b>5.50</b>	Std. Units			1		09/02/22 10:46		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>8.9</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:41	7440-70-2	
<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	09/13/22 18:29	09/16/22 15:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:36	7440-38-2	
Barium	<b>0.013</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/16/22 15:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:36	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:36	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:01	7439-92-1	
Lithium	<b>0.013J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:36	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:01	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	09/15/22 16:00	09/16/22 12:00	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>92.0</b>	mg/L	25.0	10.0	1		09/05/22 13:01		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	<b>4.4</b>	mg/L	1.0	0.60	1		09/08/22 18:29	16887-00-6	
Fluoride	<b>0.061J</b>	mg/L	0.10	0.050	1		09/08/22 18:29	16984-48-8	
Sulfate	<b>8.0</b>	mg/L	1.0	0.50	1		09/08/22 18:29	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-20S		Lab ID: 92623226015		Collected: 08/31/22 12:57		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:46		
pH	<b>5.38</b>	Std. Units			1		09/02/22 10:46		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>2.4</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:46	7440-70-2	
<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	09/13/22 18:29	09/16/22 15:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/16/22 15:42	7440-38-2	
Barium	<b>0.011</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:07	7440-39-3	
Beryllium	ND	mg/L	0.0025	0.00027	5	09/13/22 18:29	09/17/22 03:14	7440-41-7	D3
Boron	ND	mg/L	0.20	0.043	5	09/13/22 18:29	09/17/22 03:14	7440-42-8	D3
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/16/22 15:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/16/22 15:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/16/22 15:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/16/22 15:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/16/22 15:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/16/22 15:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:07	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	09/15/22 16:00	09/16/22 12:02	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>62.0</b>	mg/L	25.0	10.0	1		09/05/22 13:01		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>2.9</b>	mg/L	1.0	0.60	1		09/08/22 18:43	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/08/22 18:43	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/08/22 18:43	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-3I		Lab ID: 92623226016		Collected: 08/31/22 10:54		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:47		
pH	<b>7.49</b>	Std. Units			1		09/02/22 10:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>23.5</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 19:50	7440-70-2	
<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	09/13/22 18:29	09/15/22 22:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:12	7440-38-2	
Barium	<b>0.0030J</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/16/22 15:48	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/16/22 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:12	7439-92-1	
Lithium	<b>0.022J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/16/22 15:48	7439-93-2	
Molybdenum	<b>0.0068J</b>	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:12	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	09/15/22 16:00	09/16/22 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>137</b>	mg/L	25.0	10.0	1		09/05/22 13:01		
<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		09/08/22 19:24	16887-00-6	
Fluoride	<b>0.13</b>	mg/L	0.10	0.050	1		09/08/22 19:24	16984-48-8	
Sulfate	<b>13.9</b>	mg/L	1.0	0.50	1		09/08/22 19:24	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-3D		Lab ID: 92623226017		Collected: 08/31/22 09:30		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:47		
pH	<b>7.65</b>	Std. Units			1		09/02/22 10:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>28.7</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:05	7440-70-2	
<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	09/13/22 18:29	09/15/22 22:30	7440-36-0	
Arsenic	<b>0.0028J</b>	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:30	7440-38-2	
Barium	<b>0.0048J</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:30	7440-41-7	
Boron	ND	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:30	7439-92-1	
Lithium	<b>0.021J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:30	7439-93-2	
Molybdenum	<b>0.011</b>	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:30	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	09/15/22 16:00	09/16/22 12:07	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>141</b>	mg/L	25.0	10.0	1		09/05/22 13:01		
<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		09/08/22 19:38	16887-00-6	
Fluoride	<b>0.42</b>	mg/L	0.10	0.050	1		09/08/22 19:38	16984-48-8	
Sulfate	<b>6.9</b>	mg/L	1.0	0.50	1		09/08/22 19:38	14808-79-8	

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## ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-39		Lab ID: 92623226018		Collected: 08/31/22 13:50		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:47		
pH	<b>5.30</b>	Std. Units			1		09/02/22 10:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>16.3</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:09	7440-70-2	
<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	09/13/22 18:29	09/15/22 22:36	7440-36-0	
Arsenic	<b>0.0029J</b>	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:36	7440-38-2	
Barium	<b>0.035</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:36	7440-41-7	
Boron	<b>0.14</b>	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:36	7440-42-8	
Cadmium	<b>0.00044J</b>	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:36	7440-47-3	
Cobalt	<b>0.00085J</b>	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:36	7439-92-1	
Lithium	<b>0.0065J</b>	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:36	7439-93-2	
Molybdenum	<b>0.0036J</b>	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:36	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	09/15/22 16:00	09/16/22 12:10	7439-97-6	
<b>2540C Total Dissolved Solids</b>									
Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	<b>242</b>	mg/L	25.0	10.0	1		09/05/22 13:01		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>6.7</b>	mg/L	1.0	0.60	1		09/08/22 19:52	16887-00-6	
Fluoride	<b>0.065J</b>	mg/L	0.10	0.050	1		09/08/22 19:52	16984-48-8	
Sulfate	<b>10.9</b>	mg/L	1.0	0.50	1		09/08/22 19:52	14808-79-8	

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### ANALYTICAL RESULTS

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Sample: YGWA-40		Lab ID: 92623226019		Collected: 08/31/22 16:40		Received: 09/01/22 09:05		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>Customer</b>				1		09/02/22 10:47		
pH	<b>4.53</b>	Std. Units			1		09/02/22 10:47		
<b>6010D ATL ICP</b>									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	<b>6.2</b>	mg/L	1.0	0.12	1	09/14/22 10:55	09/14/22 20:14	7440-70-2	
<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	09/13/22 18:29	09/15/22 22:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.0022	1	09/13/22 18:29	09/15/22 22:42	7440-38-2	
Barium	<b>0.035</b>	mg/L	0.0050	0.00067	1	09/13/22 18:29	09/15/22 22:42	7440-39-3	
Beryllium	<b>0.00025J</b>	mg/L	0.00050	0.000054	1	09/13/22 18:29	09/15/22 22:42	7440-41-7	
Boron	<b>0.062</b>	mg/L	0.040	0.0086	1	09/13/22 18:29	09/15/22 22:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00011	1	09/13/22 18:29	09/15/22 22:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0011	1	09/13/22 18:29	09/15/22 22:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00039	1	09/13/22 18:29	09/15/22 22:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00089	1	09/13/22 18:29	09/15/22 22:42	7439-92-1	
Lithium	ND	mg/L	0.030	0.00073	1	09/13/22 18:29	09/15/22 22:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00074	1	09/13/22 18:29	09/15/22 22:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.0014	1	09/13/22 18:29	09/15/22 22:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00018	1	09/13/22 18:29	09/15/22 22:42	7440-28-0	
<b>7470 Mercury</b>									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA									
Mercury	<b>0.00064</b>	mg/L	0.00020	0.00013	1	09/15/22 16:00	09/16/22 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>92.0</b>	mg/L	25.0	10.0	1		09/05/22 13:01		
<b>300.0 IC Anions 28 Days</b>									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	<b>6.3</b>	mg/L	1.0	0.60	1		09/08/22 20:34	16887-00-6	
Fluoride	<b>0.050J</b>	mg/L	0.10	0.050	1		09/08/22 20:34	16984-48-8	
Sulfate	<b>17.9</b>	mg/L	1.0	0.50	1		09/08/22 20:34	14808-79-8	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

QC Batch:	722758	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004

METHOD BLANK: 3765944 Matrix: Water  
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/12/22 21:07	

LABORATORY CONTROL SAMPLE: 3765945

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765946 3765947

Parameter	Units	3765946		3765947		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623226001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	3.0	1	1	4.0	4.1	96	107	75-125	3	20

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

QC Batch: 723071 Analysis Method: EPA 6010D  
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3767576 Matrix: Water  
Associated Lab Samples: 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	09/14/22 18:24	

LABORATORY CONTROL SAMPLE: 3767577

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767578 3767579

Parameter	Units	92623226005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	2.5	1	1	3.3	3.4	73	85	75-125	4	20	M1

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

QC Batch: 722711 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226001

METHOD BLANK: 3765581 Matrix: Water  
Associated Lab Samples: 92623226001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00086J	0.0030	0.00078	09/13/22 18:33	
Arsenic	mg/L	ND	0.0050	0.0022	09/13/22 18:33	
Barium	mg/L	ND	0.0050	0.00067	09/13/22 18:33	
Beryllium	mg/L	ND	0.00050	0.000054	09/13/22 18:33	
Boron	mg/L	ND	0.040	0.0086	09/13/22 18:33	
Cadmium	mg/L	ND	0.00050	0.00011	09/13/22 18:33	
Chromium	mg/L	ND	0.0050	0.0011	09/13/22 18:33	
Cobalt	mg/L	ND	0.0050	0.00039	09/13/22 18:33	
Lead	mg/L	ND	0.0010	0.00089	09/13/22 18:33	
Lithium	mg/L	ND	0.030	0.00073	09/13/22 18:33	
Molybdenum	mg/L	ND	0.010	0.00074	09/13/22 18:33	
Selenium	mg/L	ND	0.0050	0.0014	09/13/22 18:33	
Thallium	mg/L	ND	0.0010	0.00018	09/13/22 18:33	

LABORATORY CONTROL SAMPLE: 3765582

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	111	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.11	106	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584

Parameter	Units	92622406019 Result	MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	111	109	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3765583 3765584												
Parameter	Units	92622406019		MS	MSD	MS		MSD		% Rec Limits	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec			
Barium	mg/L	0.064	0.1	0.1	0.17	0.17	108	103	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.097	96	97	75-125	1	20	
Boron	mg/L	0.18	1	1	1.2	1.2	101	99	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.099	98	99	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	1	20	
Cobalt	mg/L	0.0012J	0.1	0.1	0.099	0.099	98	97	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Lithium	mg/L	0.0013J	0.1	0.1	0.096	0.099	94	97	75-125	3	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	2	20	
Selenium	mg/L	ND	0.1	0.1	0.097	0.097	97	96	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

QC Batch: 723035 Analysis Method: EPA 6020B  
QC Batch Method: EPA 3005A Analysis Description: 6020 MET  
Laboratory: Pace Analytical Services - Peachtree Corners, GA  
Associated Lab Samples: 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3767331 Matrix: Water  
Associated Lab Samples: 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	09/15/22 20:07	
Arsenic	mg/L	ND	0.0050	0.0022	09/15/22 20:07	
Barium	mg/L	ND	0.0050	0.00067	09/15/22 20:07	
Beryllium	mg/L	ND	0.00050	0.000054	09/15/22 20:07	
Boron	mg/L	ND	0.040	0.0086	09/15/22 20:07	
Cadmium	mg/L	ND	0.00050	0.00011	09/15/22 20:07	
Chromium	mg/L	ND	0.0050	0.0011	09/15/22 20:07	
Cobalt	mg/L	ND	0.0050	0.00039	09/15/22 20:07	
Copper	mg/L	ND	0.0050	0.0010	09/15/22 20:07	
Lead	mg/L	ND	0.0010	0.00089	09/15/22 20:07	
Lithium	mg/L	ND	0.030	0.00073	09/15/22 20:07	
Molybdenum	mg/L	ND	0.010	0.00074	09/15/22 20:07	
Nickel	mg/L	ND	0.0050	0.00071	09/15/22 20:07	
Selenium	mg/L	ND	0.0050	0.0014	09/15/22 20:07	
Silver	mg/L	ND	0.0050	0.00044	09/15/22 20:07	
Thallium	mg/L	ND	0.0010	0.00018	09/15/22 20:07	
Vanadium	mg/L	0.0021J	0.010	0.0019	09/15/22 20:07	
Zinc	mg/L	ND	0.010	0.0070	09/15/22 20:07	

LABORATORY CONTROL SAMPLE: 3767332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	104	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.096	96	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Copper	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.096	96	80-120	
Nickel	mg/L	0.1	0.097	97	80-120	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

LABORATORY CONTROL SAMPLE: 3767332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.094	94	80-120	
Silver	mg/L	0.1	0.094	94	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	
Vanadium	mg/L	0.1	0.10	105	80-120	
Zinc	mg/L	0.1	0.10	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3767333 3767334

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92623226002 Result	Spike Conc.	Spike Conc.	MS Result						
Antimony	mg/L	ND	0.1	0.1	0.093	0.10	92	100	75-125	8	20
Arsenic	mg/L	ND	0.1	0.1	0.096	0.098	95	97	75-125	3	20
Barium	mg/L	0.012	0.1	0.1	0.097	0.11	85	94	75-125	9	20
Beryllium	mg/L	0.000082J	0.1	0.1	0.095	0.095	95	95	75-125	0	20
Boron	mg/L	0.014J	1	1	0.96	0.98	94	96	75-125	2	20
Cadmium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20
Chromium	mg/L	0.0015J	0.1	0.1	0.097	0.096	95	94	75-125	1	20
Cobalt	mg/L	ND	0.1	0.1	0.094	0.093	94	93	75-125	1	20
Copper	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20
Lithium	mg/L	0.0014J	0.1	0.1	0.097	0.10	96	98	75-125	3	20
Molybdenum	mg/L	ND	0.1	0.1	0.087	0.094	87	94	75-125	8	20
Nickel	mg/L	ND	0.1	0.1	0.096	0.093	96	93	75-125	3	20
Selenium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	3	20
Silver	mg/L	ND	0.1	0.1	0.084	0.091	84	91	75-125	8	20
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	2	20
Vanadium	mg/L	ND	0.1	0.1	0.10	0.10	99	99	75-125	0	20
Zinc	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

QC Batch:	723525	Analysis Method:	EPA 7470A
QC Batch Method:	EPA 7470A	Analysis Description:	7470 Mercury
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3769763 Matrix: Water

Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009, 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/16/22 11:01	

LABORATORY CONTROL SAMPLE: 3769764

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3769765 3769766

Parameter	Units	92623226002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0023	96	90	75-125	7	20	

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### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA**

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

QC Batch: 721194

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: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226007, 92623226008, 92623226009

METHOD BLANK: 3757806

Matrix: Water

Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226007, 92623226008, 92623226009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/02/22 11:11	

LABORATORY CONTROL SAMPLE: 3757807

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	381	95	80-120	

SAMPLE DUPLICATE: 3757808

Parameter	Units	92623226001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	78.0	4	25	

SAMPLE DUPLICATE: 3757809

Parameter	Units	92623294003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	628	638	2	25	

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**REPORT OF LABORATORY ANALYSIS**

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

QC Batch: 721455 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: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3759030 Matrix: Water  
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/05/22 12:59	

LABORATORY CONTROL SAMPLE: 3759031

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	389	97	80-120	

SAMPLE DUPLICATE: 3759032

Parameter	Units	92623226010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	33.0	44.0	29	25	D6

SAMPLE DUPLICATE: 3759033

Parameter	Units	92623533001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	206	204	1	25	

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

QC Batch: 721563      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: 92623226006

METHOD BLANK: 3759489      Matrix: Water  
Associated Lab Samples: 92623226006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	10.0	09/06/22 14:51	

LABORATORY CONTROL SAMPLE: 3759490

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	387	97	80-120	

SAMPLE DUPLICATE: 3759491

Parameter	Units	92623226006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	148	139	6	25	

SAMPLE DUPLICATE: 3759492

Parameter	Units	92623533010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	128	119	7	25	

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### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

QC Batch: 721661 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: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009

METHOD BLANK: 3760039 Matrix: Water  
Associated Lab Samples: 92623226001, 92623226002, 92623226003, 92623226004, 92623226005, 92623226006, 92623226007, 92623226008, 92623226009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/07/22 22:22	
Fluoride	mg/L	ND	0.10	0.050	09/07/22 22:22	
Sulfate	mg/L	ND	1.0	0.50	09/07/22 22:22	

LABORATORY CONTROL SAMPLE: 3760040

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	2.3	91	90-110	
Sulfate	mg/L	50	49.6	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760041 3760042

Parameter	Units	92622406016		3760041		3760042		% Rec	% Rec	% Rec	% Rec	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	4.1	50	50	57.1	56.7	106	105	90-110	1	10		
Fluoride	mg/L	0.056J	2.5	2.5	2.4	2.4	93	93	90-110	0	10		
Sulfate	mg/L	47.3	50	50	98.1	99.8	101	105	90-110	2	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3760043 3760044

Parameter	Units	92623226003		3760043		3760044		% Rec	% Rec	% Rec	% Rec	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec						
Chloride	mg/L	7.9	50	50	61.5	61.2	107	107	90-110	1	10		
Fluoride	mg/L	ND	2.5	2.5	2.4	2.4	96	95	90-110	1	10		
Sulfate	mg/L	0.78J	50	50	54.0	53.6	106	106	90-110	1	10		

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### QUALITY CONTROL DATA

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

QC Batch:	722003	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: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

METHOD BLANK: 3761858 Matrix: Water  
Associated Lab Samples: 92623226010, 92623226011, 92623226012, 92623226013, 92623226014, 92623226015, 92623226016, 92623226017, 92623226018, 92623226019

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/08/22 14:59	
Fluoride	mg/L	ND	0.10	0.050	09/08/22 14:59	
Sulfate	mg/L	ND	1.0	0.50	09/08/22 14:59	

LABORATORY CONTROL SAMPLE: 3761859

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	49.9	100	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761860 3761861

Parameter	Units	92623832001		3761861		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	47.2	50	50	98.7	98.6	103	103	90-110	0	10
Fluoride	mg/L	6.9	2.5	2.5	8.5	8.4	62	60	90-110	1	10 M1
Sulfate	mg/L	833	50	50	878	879	91	93	90-110	0	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3761862 3761863

Parameter	Units	92623226015		3761863		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Chloride	mg/L	2.9	50	50	55.6	56.1	105	106	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.5	96	97	90-110	1	10
Sulfate	mg/L	ND	50	50	52.5	53.0	104	105	90-110	1	10

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## QUALIFIERS

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

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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

B Analyte was detected in the associated method blank.

D3 Sample was diluted due to the presence of high levels of non-target analytes or other matrix interference.

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 Pooled Upgradient  
Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226001	YGWA-17S				
92623226002	YGWA-18S				
92623226003	YGWA-18I				
92623226004	GWA-2				
92623226005	YGWA-5I				
92623226006	YGWA-5D				
92623226007	YGWA-21I				
92623226008	YGWA-1D				
92623226009	YGWA-2I				
92623226010	YGWA-30I				
92623226011	YGWA-14S				
92623226012	YGWA-1L				
92623226013	YGWA-47				
92623226014	YGWA-4I				
92623226015	YGWA-20S				
92623226016	YGWA-3I				
92623226017	YGWA-3D				
92623226018	YGWA-39				
92623226019	YGWA-40				
92623226001	YGWA-17S	EPA 3010A	722758	EPA 6010D	722798
92623226002	YGWA-18S	EPA 3010A	722758	EPA 6010D	722798
92623226003	YGWA-18I	EPA 3010A	722758	EPA 6010D	722798
92623226004	GWA-2	EPA 3010A	722758	EPA 6010D	722798
92623226005	YGWA-5I	EPA 3010A	723071	EPA 6010D	723278
92623226006	YGWA-5D	EPA 3010A	723071	EPA 6010D	723278
92623226007	YGWA-21I	EPA 3010A	723071	EPA 6010D	723278
92623226008	YGWA-1D	EPA 3010A	723071	EPA 6010D	723278
92623226009	YGWA-2I	EPA 3010A	723071	EPA 6010D	723278
92623226010	YGWA-30I	EPA 3010A	723071	EPA 6010D	723278
92623226011	YGWA-14S	EPA 3010A	723071	EPA 6010D	723278
92623226012	YGWA-1L	EPA 3010A	723071	EPA 6010D	723278
92623226013	YGWA-47	EPA 3010A	723071	EPA 6010D	723278
92623226014	YGWA-4I	EPA 3010A	723071	EPA 6010D	723278
92623226015	YGWA-20S	EPA 3010A	723071	EPA 6010D	723278
92623226016	YGWA-3I	EPA 3010A	723071	EPA 6010D	723278
92623226017	YGWA-3D	EPA 3010A	723071	EPA 6010D	723278
92623226018	YGWA-39	EPA 3010A	723071	EPA 6010D	723278
92623226019	YGWA-40	EPA 3010A	723071	EPA 6010D	723278
92623226001	YGWA-17S	EPA 3005A	722711	EPA 6020B	722836
92623226002	YGWA-18S	EPA 3005A	723035	EPA 6020B	723160
92623226003	YGWA-18I	EPA 3005A	723035	EPA 6020B	723160
92623226004	GWA-2	EPA 3005A	723035	EPA 6020B	723160
92623226005	YGWA-5I	EPA 3005A	723035	EPA 6020B	723160
92623226006	YGWA-5D	EPA 3005A	723035	EPA 6020B	723160
92623226007	YGWA-21I	EPA 3005A	723035	EPA 6020B	723160
92623226008	YGWA-1D	EPA 3005A	723035	EPA 6020B	723160
92623226009	YGWA-2I	EPA 3005A	723035	EPA 6020B	723160

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient  
Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226010	YGWA-30I	EPA 3005A	723035	EPA 6020B	723160
92623226011	YGWA-14S	EPA 3005A	723035	EPA 6020B	723160
92623226012	YGWA-1L	EPA 3005A	723035	EPA 6020B	723160
92623226013	YGWA-47	EPA 3005A	723035	EPA 6020B	723160
92623226014	YGWA-4I	EPA 3005A	723035	EPA 6020B	723160
92623226015	YGWA-20S	EPA 3005A	723035	EPA 6020B	723160
92623226016	YGWA-3I	EPA 3005A	723035	EPA 6020B	723160
92623226017	YGWA-3D	EPA 3005A	723035	EPA 6020B	723160
92623226018	YGWA-39	EPA 3005A	723035	EPA 6020B	723160
92623226019	YGWA-40	EPA 3005A	723035	EPA 6020B	723160
92623226001	YGWA-17S	EPA 7470A	723525	EPA 7470A	723743
92623226002	YGWA-18S	EPA 7470A	723525	EPA 7470A	723743
92623226003	YGWA-18I	EPA 7470A	723525	EPA 7470A	723743
92623226004	GWA-2	EPA 7470A	723525	EPA 7470A	723743
92623226005	YGWA-5I	EPA 7470A	723525	EPA 7470A	723743
92623226006	YGWA-5D	EPA 7470A	723525	EPA 7470A	723743
92623226007	YGWA-21I	EPA 7470A	723525	EPA 7470A	723743
92623226008	YGWA-1D	EPA 7470A	723525	EPA 7470A	723743
92623226009	YGWA-2I	EPA 7470A	723525	EPA 7470A	723743
92623226010	YGWA-30I	EPA 7470A	723525	EPA 7470A	723743
92623226011	YGWA-14S	EPA 7470A	723525	EPA 7470A	723743
92623226012	YGWA-1L	EPA 7470A	723525	EPA 7470A	723743
92623226013	YGWA-47	EPA 7470A	723525	EPA 7470A	723743
92623226014	YGWA-4I	EPA 7470A	723525	EPA 7470A	723743
92623226015	YGWA-20S	EPA 7470A	723525	EPA 7470A	723743
92623226016	YGWA-3I	EPA 7470A	723525	EPA 7470A	723743
92623226017	YGWA-3D	EPA 7470A	723525	EPA 7470A	723743
92623226018	YGWA-39	EPA 7470A	723525	EPA 7470A	723743
92623226019	YGWA-40	EPA 7470A	723525	EPA 7470A	723743
92623226001	YGWA-17S	SM 2540C-2015	721194		
92623226002	YGWA-18S	SM 2540C-2015	721194		
92623226003	YGWA-18I	SM 2540C-2015	721194		
92623226004	GWA-2	SM 2540C-2015	721194		
92623226005	YGWA-5I	SM 2540C-2015	721194		
92623226006	YGWA-5D	SM 2540C-2015	721563		
92623226007	YGWA-21I	SM 2540C-2015	721194		
92623226008	YGWA-1D	SM 2540C-2015	721194		
92623226009	YGWA-2I	SM 2540C-2015	721194		
92623226010	YGWA-30I	SM 2540C-2015	721455		
92623226011	YGWA-14S	SM 2540C-2015	721455		
92623226012	YGWA-1L	SM 2540C-2015	721455		
92623226013	YGWA-47	SM 2540C-2015	721455		
92623226014	YGWA-4I	SM 2540C-2015	721455		
92623226015	YGWA-20S	SM 2540C-2015	721455		
92623226016	YGWA-3I	SM 2540C-2015	721455		
92623226017	YGWA-3D	SM 2540C-2015	721455		

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### QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Pooled Upgradient

Pace Project No.: 92623226

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623226018	YGWA-39	SM 2540C-2015	721455		
92623226019	YGWA-40	SM 2540C-2015	721455		
92623226001	YGWA-17S	EPA 300.0 Rev 2.1 1993	721661		
92623226002	YGWA-18S	EPA 300.0 Rev 2.1 1993	721661		
92623226003	YGWA-18I	EPA 300.0 Rev 2.1 1993	721661		
92623226004	GWA-2	EPA 300.0 Rev 2.1 1993	721661		
92623226005	YGWA-5I	EPA 300.0 Rev 2.1 1993	721661		
92623226006	YGWA-5D	EPA 300.0 Rev 2.1 1993	721661		
92623226007	YGWA-21I	EPA 300.0 Rev 2.1 1993	721661		
92623226008	YGWA-1D	EPA 300.0 Rev 2.1 1993	721661		
92623226009	YGWA-2I	EPA 300.0 Rev 2.1 1993	721661		
92623226010	YGWA-30I	EPA 300.0 Rev 2.1 1993	722003		
92623226011	YGWA-14S	EPA 300.0 Rev 2.1 1993	722003		
92623226012	YGWA-1L	EPA 300.0 Rev 2.1 1993	722003		
92623226013	YGWA-47	EPA 300.0 Rev 2.1 1993	722003		
92623226014	YGWA-4I	EPA 300.0 Rev 2.1 1993	722003		
92623226015	YGWA-20S	EPA 300.0 Rev 2.1 1993	722003		
92623226016	YGWA-3I	EPA 300.0 Rev 2.1 1993	722003		
92623226017	YGWA-3D	EPA 300.0 Rev 2.1 1993	722003		
92623226018	YGWA-39	EPA 300.0 Rev 2.1 1993	722003		
92623226019	YGWA-40	EPA 300.0 Rev 2.1 1993	722003		

### REPORT OF LABORATORY ANALYSIS

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without the written consent of Pace Analytical Services, LLC.



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

Ga Power

Project

WO#: 92623226



92623226

Courier:  FedEx  UPS  USPS  Client  Commercial  Pace  Other: \_\_\_\_\_

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:

IR Gun ID: 214

Type of Ice:  Wet  Blue  None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.9

USDA Regulated Soil (  N/A, water sample)

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

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

Date/Initials Person Examining Contents: 8/31/22 JN

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

pH Strip Lot# 1004611

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

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

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



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

\*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# : 92623226**

PM: NMG

Due Date: 09/15/22

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-)	WGFGU-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)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/
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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)



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mech  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92623226

PM: NMG

Due Date: 09/15/22

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: 9/1/22 [initials]

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 230

Type of Ice:  Wet  Blue  None

Cooler Temp:

2.5 Correction Factor: Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.5

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 checked="" type="checkbox"/> N/A		

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

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

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

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



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

**WO# : 92623226**

PM: NMG

Due Date: 09/15/22

CLIENT: GA-GA Power

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

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

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

\*\*\*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-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (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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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>	
Company: GA Power	Requester: SCS Controls	Company Name: Southern Co.	Address:	Requester Name:	Requester Title:
Address: Atlanta, GA	Copy To: Atlanta Controls	Address:	Company Name:	Requester Name:	Requester Title:
Requester Dept Name:	Requester Name:	Address:	Company Name:	Requester Name:	Requester Title:
Requester Dept Name:	Requester Name:	Address:	Company Name:	Requester Name:	Requester Title:

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Example: 0A91-1	Matrix Code (see valid codes to left)	SAMPLE TYPE (D-GRAB C-OOSMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						App SWV Metals	Cl, F, SO4	TDS (2540C)	RAD 9318/9320	App I / II (ppium only)	Residual Chlorine (YR)		
				START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	H2O2							Methanol	Other
				DATE	TIME			DATE	TIME												
YGMA-47		WIG G					5														
GMA-2		WIG G					2														
YGMA-41		WIG G					2														
YGMA-51		WIG G					2														
YGMA-5D		WIG G					2														
YGMA-176		WIG G					2														
YGMA-185		WIG G					2														
YGMA-18		WIG G					2														
YGMA-209		WIG G					2														
YGMA-211		WIG G					2														
YGMA-301		WIG G					2														
YGMA-148		WIG G					2														

Address: 20019 CL F Building	Requester: Lynn Wilson	Requester Title: Plant	Requester Name: Lynn Wilson	Requester Title: Plant
Address: 20019 CL F Building	Requester: Lynn Wilson	Requester Title: Plant	Requester Name: Lynn Wilson	Requester Title: Plant
Address: 20019 CL F Building	Requester: Lynn Wilson	Requester Title: Plant	Requester Name: Lynn Wilson	Requester Title: Plant
Address: 20019 CL F Building	Requester: Lynn Wilson	Requester Title: Plant	Requester Name: Lynn Wilson	Requester Title: Plant

Request Name of Supplier: Moss Creek	DATE: 8/31/21
Request Name of Supplier: Moss Creek	DATE: 8/31/21
Request Name of Supplier: Moss Creek	DATE: 8/31/21
Request Name of Supplier: Moss Creek	DATE: 8/31/21

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

**Section A** Requested Client Information:  
 Company: **GA Power**  
 Address: **Atlanta, GA**  
 Contact: **470.520.6178** Fax: \_\_\_\_\_  
 Requested Date: \_\_\_\_\_

**Section B** Requested Project Information:  
 Requested For: **SGS Contract**  
 Company: **Archives Contract**  
 Project Name: **Plant Water Flooded Upgrade**  
 Project Number: \_\_\_\_\_

**Section C** Analytical Information:  
 Requested Analytical Method (Y/N):  
 Preservation: **Unpreserved**  
 Matrix: **H2O**  
 Matrix Code: **1000**  
 Sample Type: **Q-ORAB C-COMP**  
 Date: **9/12/03**  
 Time: **10:00**  
 Sample Temp at Collection: \_\_\_\_\_  
 # of Containers: **3**  
 Preservation: **None**  
 Analytical Method: **None**  
 Requested For: **SGS Contract**  
 Company: **Archives Contract**  
 Project Name: **Plant Water Flooded Upgrade**  
 Project Number: \_\_\_\_\_

ITEM #	SAMPLE ID	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATION	ANALYTICAL METHOD	Y/N	RESERVED ON FILE (Y/N)	CUSTODY CONTROL COATED (Y/N)	SERVICES PERFORMED (Y/N)
1	YQWA-09	9/12/03	10:00				3	Unpreserved	None				
2	YQWA-10	9/12/03	10:00				3	Unpreserved	None				
3	YQWA-11	9/12/03	10:00				3	Unpreserved	None				
4	YQWA-12	9/12/03	10:00				3	Unpreserved	None				
5	YQWA-13	9/12/03	10:00				3	Unpreserved	None				
6	YQWA-14	9/12/03	10:00				3	Unpreserved	None				
7	YQWA-15	9/12/03	10:00				3	Unpreserved	None				

**Section D** Requested Client Information:  
 Company: **GA Power**  
 Address: **Atlanta, GA**  
 Contact: **470.520.6178** Fax: \_\_\_\_\_  
 Requested Date: \_\_\_\_\_

**Section E** Requested Project Information:  
 Requested For: **SGS Contract**  
 Company: **Archives Contract**  
 Project Name: **Plant Water Flooded Upgrade**  
 Project Number: \_\_\_\_\_

**Section F** Analytical Information:  
 Requested Analytical Method (Y/N):  
 Preservation: **Unpreserved**  
 Matrix: **H2O**  
 Matrix Code: **1000**  
 Sample Type: **Q-ORAB C-COMP**  
 Date: **9/12/03**  
 Time: **10:00**  
 Sample Temp at Collection: \_\_\_\_\_  
 # of Containers: **3**  
 Preservation: **None**  
 Analytical Method: **None**  
 Requested For: **SGS Contract**  
 Company: **Archives Contract**  
 Project Name: **Plant Water Flooded Upgrade**  
 Project Number: \_\_\_\_\_



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

Section A

Requested Client Information:  
 Company: GA Power  
 Address: Atlanta, GA  
 Requested Date Base: 470 620 6176

Requested Project Information:  
 Report for: SCS Contracts  
 Copy to: Arcadis Contacts  
 Project Name: Plant Values Pooled Upgrade  
 Project Number: 1

Requested Laboratory Information:  
 Address: Southem Co.  
 Company Name: Southem Co.  
 Project Manager: Nicole D'Ono  
 POC Project Manager: Nicole D'Ono  
 POC Phone #: 10840

Section B

Sample ID  
 One Character per line  
 (A-Z, 0-9, -)  
 Sample ID must be unique

DATE TIME DATE TIME  
 START END

MATRIX CODE (see notes on page 10)

SAMPLE TYPE (Q-DRAW Q-DRAW)

DATE TIME DATE TIME

SAMPLE TEMP AT COLLECTION

# OF CONTAINERS  
 Unreserved  
 H2SO4  
 HNO3  
 HCl  
 NaOH  
 Na2O200  
 Methanol  
 Other

App III / IV Metals  
 Cl, F, SO4  
 TDS (2840C)  
 RAD 9315/9320

App I / II (gypsum only)

Section C

ITEM #	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	UNRESERVED	H2SO4	HNO3	HCl	NaOH	Na2O200	Methanol	Other	App III / IV Metals	CL, F, SO4	TDS (2840C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (VR)
YGWA-39	9/11/12	10:55				5	2								X	X	X	X		
YGWA-40	9/11/12	10:55				5	2								X	X	X	X		
YGWA-11	9/11/12	10:55				5	2								X	X	X	X		
YGWA-10	9/11/12	10:55				5	2								X	X	X	X		
YGWA-21	9/11/12	10:55				5	2								X	X	X	X		
YGWA-31	9/11/12	10:55				5	2								X	X	X	X		
YGWA-30	9/11/12	10:55				5	2								X	X	X	X		

App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App N Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App M Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App O Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App P Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App Q Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App R Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App S Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App T Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App U Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App V Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App W Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App X Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App Y Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

App Z Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Strontium (Sr), Vanadium (V), Zinc (Zn), Ni, V

Signature of Sample User: *Nicole D'Ono* DATE: 9/11/12

Signature of Analyst: *Nicole D'Ono* DATE: 9/11/12

TEMP In C

Received on (Y/N)

Sealed Cooler (Y/N)

Samples intact (Y/N)

Page: 1 of 1





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

Page: 2 of 3

**Section A: Requested General Information**  
 Company: GA Pesticide  
 Address: Albany, GA  
 Phone: 478.620.8178  
 Representative Name: [Signature]  
 Email To: [Signature]

**Section B: Requested Project Information**  
 Project No: SCS Contracts  
 City: Albany, Georgia  
 Purchase Order #: Plant Values Pesticide Litigation  
 Project Name: Plant Values Pesticide Litigation  
 Project Number: [Blank]

**Section C: Invoice Information**  
 Invoice Number: Southern Co.  
 Company Name: Southern Co.  
 Project Manager: Nicole D'Olivera  
 Phone/Fax: (864) [Blank]

ITEM #	SAMPLE ID One Container per lot. (4-2, 4-3, 4-4) Samples too small for analysis	DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	PRESERVATIVES						APP III / IV METALS	APP I / II (GYPSUM ONLY)	RESIDUAL CHLORINE (Y/N)		
							COLLECTED		# OF CONTAINERS								
							START	END	Unpreserved	H2SO4	HNO3	HCl				NaOH	Na2B2O4
YGWA-39		7/11/12	08:00	7/11/12	08:00	3	3	3	3	3	3	X	X				
YGWA-40		7/11/12	08:00	7/11/12	08:00	3	3	3	3	3	3	X	X				
YGWA-11		7/11/12	08:00	7/11/12	08:00	3	3	3	3	3	3	X	X				
YGWA-10		7/11/12	08:00	7/11/12	08:00	3	3	3	3	3	3	X	X				
YGWA-23		7/11/12	08:00	7/11/12	08:00	3	3	3	3	3	3	X	X				
YGWA-31		7/11/12	08:00	7/11/12	08:00	3	3	3	3	3	3	X	X				
YGWA-3D		7/11/12	08:00	7/11/12	08:00	3	3	3	3	3	3	X	X				

**Address Labels (3010 (C, F, S, M))**  
 App B Label: Sample 0800, CA 0800  
 App B1 Label: 24, 24, 24, V  
 App B2 Label: 24, 24, 24, V

**App B: Labels (Bottle, Analytical (B), Analytical (A), Durham (B), Durham (A), Charleston (B), Charleston (A), Columbia (B), Columbia (A), Lead (B), Lead (A), Magnesium (B), Magnesium (A), Nickel (B), Nickel (A))**

Analyst: [Signature]  
 Date: 7/11/12  
 Time: 08:00  
 Signature of Analyst: [Signature]  
 Date of Signature: 7/11



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

2377  
43226

**Section A**

Requested Client Information:

Company: GA Power  
Address: Atlanta, GA  
Requestor: Bill Walker  
Phone: 478.628.6178  
Requestor Email: Bill.Walker@ga-power.com

**Section B**

Requested Project Information:

Project Name: SCSS Contracts  
Project Number: ARCADIS Contracts  
Plant Values Pooled Upgrades  
Purchase Order #: [blank]  
Project Number: [blank]

**Section C**

Requested Laboratory Information:

Laboratory: Southern Co.  
Company Name: [blank]  
Address: [blank]  
City: [blank]  
State: [blank]  
Zip: 10840  
Personnel Manager: Nicole D'Onofrio  
Personnel ID: [blank]

#	WELL	SAMPLE ID	One Chamber per hole (4-2, 4-3) Sample ID must be unique	Matrix Organic Inorganic Metals Trace Other	CODE DW WT F A E D G R M N S	COLLECTED		START		END		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							APP BVV METALS				Residual Chlorine (VR)												
						DATE	TIME	DATE	TIME	Unpreserved	H2SO4			HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	X	X	X	X														
																								MATRIX CODE (see wild codes to left)		SAMPLE TYPE (d=d-PLUS C=COMP)											
1		YGWA-47											2																								
2		YGWA-2											2																								
3		YGWA-4I											2																								
4		YGWA-6I											2																								
5		YGWA-5D											2																								
6		YGWA-17B											2																								
7		YGWA-18S											2																								
8		YGWA-18I											2																								
9		YGWA-20S											2																								
10		YGWA-21I											2																								
11		YGWA-30I											2																								
12		YGWA-14S											2																								

App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]
App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]
App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]
App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]
App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]
App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]
App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]
App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]
App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]
App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]	App II Issue: [blank]

TEMP H C  
Received on [blank] (YR)  
Custody [blank]  
Sealed [blank]  
Cooled [blank]  
Cooled [blank]  
Samples [blank] (YR)

# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A** Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information:

Company: <b>GA Power</b>	Report To: <b>SCS Contacts</b>	Company Name: <b>Southern Co.</b>
Address: <b>Atlanta, GA</b>	Copy To: <b>Arcadis Contacts</b>	Address: _____
Email To: <b>baucoker@southernco.com</b>	Purchase Order #: _____	Person Quoted: _____
Phone: <b>470.620.6176</b>	Project Name: <b>Plant Yates Pooled Upgradient</b>	Plant Project Manager: <b>Nicole D'Onofrio</b>
Requested Due Date: _____	Project Number: _____	Plant Profile #: <b>10840</b>
Regulatory Agency: <b>State Location Georgia</b>		

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9, -, .)</small> Sample IDs must be unique	MATRIX <small>Drinking Water Water Waste Water Product Other</small>	CODE <small>DW WT WW P SL OT AP OT TS</small>	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	TEMP in C	Received on ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)					
														MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	START DATE	START TIME	END DATE
1	YGWA-47																	
2	GWA-2																	
3	YGWA-41																	
4	YGWA-51																	
5	YGWA-5D																	
6	YGWA-17S																	
7	YGWA-18S																	
8	YGWA-181																	
9	YGWA-20S																	
10	YGWA-211																	
11	YGWA-301																	
12	YGWA-14S																	

SAMPLER NAME AND SIGNATURE		DATE SIGNED	
PRINT Name of SAMPLER:	<i>Jane Severson</i>	DATE SIGNED:	<i>8/31/22</i>
SIGNATURE of SAMPLER:	<i>[Signature]</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: jlaucoker@southernco.com  
 Phone: 470.620.6176  
 Requested Due Date:

**Section B**  
 Required Project Information:  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Purchase Order #: Plant Yates Pooled Upgrade/ent  
 Project Name: Plant Yates Pooled Upgrade/ent  
 Project Number:

**Section C**  
 Invoice Information:  
 Attention: Southern Co.  
 Company Name: Southern Co.  
 Address:  
 Price Quote:  
 Face Project Manager: Nicole D'Orleo  
 Price Profile #: 10940  
 Requested Analysis Filtered (Y/N):  
 State / Location: Georgia

Page: 1 of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -)	MATRIX Drinking Water Waste Water Product Soil/Sediment Air Water Other Thru	CODE DW WW PR SS WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSIS TEST	Y/N	RESIDUAL CHLORINE (Y/N)	PH					
						START DATE	END DATE		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol					Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320
1	YGWA-47																							
2	GWA-2																							
3	YGWA-41																							
4	YGWA-51																							
5	YGWA-5D																							
6	YGWA-17S																							
7	YGWA-18S																							
8	YGWA-181																							
9	YGWA-20S																							
10	YGWA-211																							
11	YGWA-301																							
12	YGWA-14S																							

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
<i>[Signature]</i> Arcadis	8/13/12	0750	<i>[Signature]</i> SCS	8/13/12	1153
<i>[Signature]</i> Arcadis	8/13/12	0750	<i>[Signature]</i> SCS	8/13/12	1153
<i>[Signature]</i> Arcadis	8/13/12	0750	<i>[Signature]</i> SCS	8/13/12	1153

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: *Jessica Ware*  
 SIGNATURE of SAMPLER: *[Signature]* DATE Shipped: 8/13/12

# 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: jaulcocker@southernco.com	Phone: 470.620.6176	Purchase Order #	Project Name: Plant Yales Pooled Upgradient	Address:	Face Order
Requested Due Date:	Fax:	Project Number:	Face Project Manager: Nicole D'Ono	Price Profile # 10840	Requested Analysis Filtered (Y/N)
				State / Location: Georgia	Regulatory Agency:

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 Surface Oil Wipe Air Other Tissue</small>	CODE <small>DW WT WW S CL WP AT OT TS</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysed Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH:				
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol						Other	App III/IV Metals	Cl, F, SO4	TDS (2540C)
1	YGWA-47			WG G			5																
2	GWA-2			WG G			5																
3	YGWA-41			WG G			5																
4	YGWA-51			WG G			5																
5	YGWA-5D			WG G			5																
6	YGWA-17S			WG G			5																
7	YGWA-18S			WG G			5																
8	YGWA-181			WG G			5																
9	YGWA-20S			WG G			5																
10	YGWA-211			WG G			5																
11	YGWA-301			WG G			5																
12	YGWA-14S			WG G			5																

<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>	
Anions Suite 300.0 (Cl, F, Sulfite)		Arcadis		8/31/21		1003		Ryan Hillman / Arc		8/31/21		1003		TEMP in C	
App III Metals: Boron 6020B, Ca 6010D, App III 6020B: Zn, Ag, Ni, V		Ryan Hillman / Arc		8/31/21		1153		Ryan Hillman / Arc		8/31/21		1153		Received on Ice (Y/N)	
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)														Custody Sealed Cooler (Y/N)	
														Samples Intact (Y/N)	

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Marc Chest  
 SIGNATURE of SAMPLER: *Marc Chest*  
 DATE Signed: 8/31/21

### 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: jlauckert@southemco.com Phone: 470.620.6176 Requested Date Date: \_\_\_\_\_

Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts Purchase Order #: \_\_\_\_\_ Plant Yates Pooled Upgradient Project Number: \_\_\_\_\_

Section C Invoice Information: Attention: Southern Co. Company Name: \_\_\_\_\_ Address: \_\_\_\_\_ POC Name: Nicole D'Onofrio POC Profile #: 10840 State / Location: Georgia

Page: 1 of 1

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX	CODE	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	
						START	END			H2SO4	HNO3	NaOH	Na2S2O3	Methanol	Other	App III / IV Metals				Cl, F, SO4
		Drawing Water Waste Wastewater Process Sewage Other TSS	DW WT WW P SL WSP AF OT TS			DATE	TIME	DATE	TIME	Unpreserved										
1	YGWA-39		WG	G					5											
2	YGWA-40		WG	G					5											
3	YGWA-11		WG	G					5											
4	YGWA-1D		WG	G		8/30	1850		5											
5	YGWA-2I		WG	G		9/30	1000		5											
6	YGWA-3I		WG	G					5											
7	YGWA-3D		WG	G					5											
8																				
9																				
10																				
11																				
12																				

ADDITIONAL COMMENTS: \_\_\_\_\_

RELINQUISHED BY / AFFILIATION: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

ACCEPTED BY / AFFILIATION: \_\_\_\_\_ DATE: \_\_\_\_\_ TIME: \_\_\_\_\_

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

PRINT Name of SAMPLER: \_\_\_\_\_

SIGNATURE of SAMPLER: \_\_\_\_\_

DATE Signed: \_\_\_\_\_

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.

3 2207  
3726

<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	Report To: SCS Contacts	Attention: Southem Co.	Company Name: Southem Co.	Address:	Regulatory Agency:
Address: Atlanta, GA	Copy To: Arcadis Contacts	Company Name: Southem Co.	Address:	State / Location: Georgia	
Email To: jsucker@scsuhnamto.com	Purchase Order #: Plant Yates Pooled Upgradient	Pace Quote: Nicole D'Olivo	Pace Project Manager: Nicole D'Olivo	Requester Analysis (Inlined Y/N)	
Phone: 470.620.6176	Project Name: Plant Yates Pooled Upgradient	Pace Profile #: 10840			
Requested Date Date:	Project Number:				

ITEM #	SAMPLE ID <small>One Character per box. (A-Z, 0-9 / . - ) Sample IDs must be unique</small>	MATRIX <small>Drinking Water Waste Water Process Water Surface Water Other</small>	CODE <small>DW WW PW SW AR OT TS</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST	Residual Chlorine (Y/N)	pH:				
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other	App III / IV Metals	Cl, F, SO4	TDS (2540C)
1	YGWA-39																			
2	YGWA-40																			
3	YGWA-11																			
4	YGWA-1D																			
5	YGWA-21																			
6	YGWA-31																			
7	YGWA-3D																			
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>	
Anions Suite 300.0 (Cl, F, Sulfate)		Arcadis		9/1/12		0800		Kyan Williams / Pace		9/1/12		0905		TEMP in C	
App III Metals: Boron 60208, Ca 60100;		Kyan Williams / Pace		9/1/12		1055		Kyan Williams / Pace		9/1/12		0905		Received on ice (Y/N)	
App VI Metals: Arsenic (As), Barium (Ba),		Kyan Williams / Pace		9/1/12		1055		Kyan Williams / Pace		9/1/12		0905		Custody Sealed Cooler (Y/N)	
Benignium (Be), Cadmium (Cd), Chromium (Cr),		Kyan Williams / Pace		9/1/12		1055		Kyan Williams / Pace		9/1/12		0905		Samples Intact (Y/N)	
Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)		Kyan Williams / Pace		9/1/12		1055		Kyan Williams / Pace		9/1/12		0905			
7040A, Mercury (Hg)		Kyan Williams / Pace		9/1/12		1055		Kyan Williams / Pace		9/1/12		0905			

<b>SAMPLER NAME AND SIGNATURE</b>		<b>PRINT Name of SAMPLER</b>		<b>DATE Signed:</b>	
Kyan Williams / Pace		Kyan Williams / Pace		9/1/12	



# CHAIN-OF-CUSTODY / Analytical Request Document

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

**Section A**

**Required Client Information:**  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: lauckner@southernco.com  
 Phone: 470.620.6176 Fax  
 Requested Due Date:

**Section B**

**Required Project Information:**  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Purchase Order #: Plant Yates Pooled Upgradient  
 Project Name:  
 Project Number:

**Section C**

**Invoice Information:**  
 Attention: Southern Co.  
 Company Name:  
 Address:  
 P.O. Box:  
 Pool Profile #: 10840

**Regulatory Agency**  
 State / Location: Georgia

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 Sewage Other Air Dust Tissue</small>	CODE <small>DW WT WW P SL OL AQ DT TS</small>	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS							Requested Analysis (Preserv (Y/N))	Residual Chlorine (Y/N)	PH	
				START DATE	END DATE		Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol				Other
1	YGWA-47																
2	YGWA-2																
3	YGWA-41																
4	YGWA-51																
5	YGWA-5D																
6	YGWA-17S																
7	YGWA-18S																
8	YGWA-181																
9	YGWA-20S																
10	YGWA-211																
11	YGWA-301																
12	YGWA-14S																

**ADDITIONAL COMMENTS:**  
 App I: Metals 6020B: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Zinc (Zn), Mercury (Hg)  
 App II: Metals 6020B: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Zinc (Zn), Mercury (Hg)  
 App III: Metals 6020B: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Zinc (Zn), Mercury (Hg)  
 App IV: Metals 6020B: Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), Zinc (Zn), Mercury (Hg)

**SAMPLER NAME AND SIGNATURE:**  
 PRINT Name of SAMPLER: Jessica Clark  
 SIGNATURE of SAMPLER: [Signature]  
 DATE Signed: 9/1/12

**TEMP in C:**  
 Received on Ice (Y/N)  
 Cooled (Y/N)  
 Sealed Cooler (Y/N)  
 Samples Intact (Y/N)



# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information: Company: GA Power Address: Atlanta, GA  
 Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts  
 Section C Invoice Information: Attention: Southern Co. Company Name: Address: Pica Project Manager: Nicole D'Ono Pica Profile #: 10840  
 Requested Analysis Method (Y/N): Residual Chlorine (Y/N)  
 State / Location: Georgia  
 Requesting Agency:   
 Page: 1 of 1

ITEM #	SAMPLE ID One Character per Degr. (A-Z, 0-9 / -) Sample IDs must be unique	MATRIX Degrading Matter Dissolved Metals Suspended Other	CODE DVI WV WVW P SL CL WV AR OT TS	COLLECTED		SAMPLE TEMP AT COLLECTION	PRESERVATIVES							ANALYSES TEST	Y/N	Requester's Initials (Printed) (Y/N)	Residual Chlorine (Y/N)	pH:				
				DATE	TIME		DATE	TIME	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl						NaOH	Na2S2O3	Methanol	Other
1	YGWA-47		WG G		8/31	0915																
2	YGWA-2		WG G																			
3	YGWA-41		WG G																			
4	YGWA-61		WG G																			
5	YGWA-6D		WG G																			
6	YGWA-17S		WG G																			
7	YGWA-18S		WG G																			
8	YGWA-181		WG G																			
9	YGWA-20S		WG G																			
10	YGWA-211		WG G																			
11	YGWA-301		WG G																			
12	YGWA-14S		WG G																			
ADDITIONAL COMMENTS		REINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS		TEMP IN C		Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)						
Anions Suite 300.0 (Cl, F, Sulfate)		Arcadis		9/1/22	0800	Ryan Wilson / Pace		9/1/22	0905													
App III Metals: Boron 6020B; Ca 6010C; App III 6020B; Zn, Ag, Ni, V		Arcadis		9/1/22	1056	Ryan Wilson / Pace		9/1/22	0905													
App IV: Metals 6020B: 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)		Arcadis		9/1/22	0800	Ryan Wilson / Pace		9/1/22	0905													

SAMPLER NAME AND SIGNATURE: PRINT Name of SAMPLER: **DAKE SWANSON** SIGNATURE OF SAMPLER:  DATE SIGNED: **9/1/22**



**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

Section B Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts

Section C Invoice Information: Attention: Southern Co. Company Name: Southern Co. Address:

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / . - ) Sample IDs must be unique	MATRIX Drinking Water Waste Water Wastewater Product Soils Air Other Tissue	CODE DW WT WW P SL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives Unpreserved H2SO4 HNO3 HCl NaOH Na2S2O3 Methanol Other	Analyses Test Y/N	Requested Analysis Requested (Y/N)	Residual Chlorine (Y/N)	
						START DATE	END DATE							
						TIME	TIME							
1	YGWA-39													
2	YGWA-40													
3	YGWA-11													
4	YGWA-1D													
5	YGWA-21													
6	YGWA-31													
7	YGWA-3D													
8														
9														
10														
11														
12														
ADDITIONAL COMMENTS						REINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS
Arcadis Suite 300 0 (Cl, F, Sulfate)						Michael Carson/Arcadis		8/1/12	0800	Michael Carson		9/1/12	0800	Received on Ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
App III Metals: Boron 6020B, Ca 6010D, App III 6020B: Zn, Ag, Ni, V						Katie Adams/Arcadis		9/1/12		Katie Adams		9/1/12	0800	
App IV Metals: Arsenic (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Lithium (Li), Molybdenum (Mo), Selenium (Se), Thallium (Tl), Vanadium (V), Zinc (Zn)						Katie Adams/Arcadis		9/1/12	1056	Katie Adams		9/1/12	0800	

Regulatory Agency: Georgia State/Location: Georgia

Page: 2 of 3

TEMP in C: \_\_\_\_\_

SAMPLER NAME AND SIGNATURE: \_\_\_\_\_

PRINT Name of SAMPLER: Michael Carson

SIGNATURE OF SAMPLER: \_\_\_\_\_

DATE Signed: 9/1/12

September 23, 2022

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

RE: Project: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between August 31, 2022 and September 01, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,



Nicole D'Oleo  
nicole.d'oleo@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  
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: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

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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: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92623277001	YGWA-17S	Water	08/30/22 15:40	08/31/22 11:03
92623277002	YGWA-18S	Water	08/30/22 10:10	08/31/22 11:03
92623277003	YGWA-18I	Water	08/30/22 13:35	08/31/22 11:03
92623277004	GWA-2	Water	08/30/22 10:05	08/31/22 11:03
92623277005	YGWA-5I	Water	08/30/22 10:52	08/31/22 11:03
92623277006	YGWA-5D	Water	08/30/22 12:05	08/31/22 11:03
92623277007	YGWA-21I	Water	08/30/22 14:30	08/31/22 11:03
92623277008	YGWA-1D	Water	08/30/22 13:50	08/31/22 11:03
92623277009	YGWA-2I	Water	08/30/22 10:00	08/31/22 11:03
92623277010	YGWA-30I	Water	08/31/22 11:30	09/01/22 09:05
92623277011	YGWA-14S	Water	08/31/22 14:15	09/01/22 09:05
92623277012	YGWA-1I	Water	08/31/22 09:10	09/01/22 09:05
92623277013	YGWA-47	Water	08/31/22 09:15	09/01/22 09:05
92623277014	YGWA-4I	Water	08/31/22 15:37	09/01/22 09:05
92623277015	YGWA-20S	Water	08/31/22 12:57	09/01/22 09:05
92623277016	YGWA-39	Water	08/31/22 13:50	09/01/22 09:05
92623277017	YGWA-40	Water	08/31/22 16:40	09/01/22 09:05
92623277018	YGWA-3I	Water	08/31/22 10:54	09/01/22 09:05
92623277019	YGWA-3D	Water	08/31/22 09:30	09/01/22 09:05

## REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623277001	YGWA-17S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277002	YGWA-18S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277003	YGWA-18I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277004	GWA-2	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277005	YGWA-5I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277006	YGWA-5D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277007	YGWA-21I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277008	YGWA-1D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277009	YGWA-2I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277010	YGWA-30I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277011	YGWA-14S	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277012	YGWA-1I	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277013	YGWA-47	EPA 9315	RMS	1	PASI-PA

### REPORT OF LABORATORY ANALYSIS

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### SAMPLE ANALYTE COUNT

Project: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92623277014	YGWA-4I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92623277015	YGWA-20S	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277016	YGWA-39	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
92623277017	YGWA-40	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
92623277018	YGWA-3I	Total Radium Calculation	JAL	1	PASI-PA
		EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92623277019	YGWA-3D	EPA 9315	RMS	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92623277001</b>	<b>YGWA-17S</b>					
EPA 9315	Radium-226	0.114 ± 0.0935 (0.148) C:97% T:NA	pCi/L		09/21/22 16:06	
EPA 9320	Radium-228	0.964 ± 0.357 (0.496) C:79% T:96%	pCi/L		09/21/22 11:51	
Total Radium Calculation	Total Radium	1.08 ± 0.451 (0.644)	pCi/L		09/22/22 16:49	
<b>92623277002</b>	<b>YGWA-18S</b>					
EPA 9315	Radium-226	0.0688 ± 0.0906 (0.189) C:97% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.542 ± 0.287 (0.493) C:82% T:95%	pCi/L		09/21/22 11:51	
Total Radium Calculation	Total Radium	0.611 ± 0.378 (0.682)	pCi/L		09/22/22 16:49	
<b>92623277003</b>	<b>YGWA-18I</b>					
EPA 9315	Radium-226	0.0453 ± 0.0847 (0.194) C:91% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.961 ± 0.372 (0.555) C:81% T:93%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.01 ± 0.457 (0.749)	pCi/L		09/22/22 16:49	
<b>92623277004</b>	<b>GWA-2</b>					
EPA 9315	Radium-226	0.181 ± 0.124 (0.194) C:91% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	1.34 ± 0.454 (0.623) C:83% T:89%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.52 ± 0.578 (0.817)	pCi/L		09/22/22 16:49	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92623277005</b>	<b>YGWA-5I</b>					
EPA 9315	Radium-226	0.0755 ± 0.109 (0.238) C:95% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.644 ± 0.326 (0.564) C:79% T:97%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.720 ± 0.435 (0.802)	pCi/L		09/22/22 16:49	
<b>92623277006</b>	<b>YGWA-5D</b>					
EPA 9315	Radium-226	3.13 ± 0.626 (0.210) C:93% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	2.21 ± 0.587 (0.575) C:82% T:89%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	5.34 ± 1.21 (0.785)	pCi/L		09/22/22 16:49	
<b>92623277007</b>	<b>YGWA-21I</b>					
EPA 9315	Radium-226	0.307 ± 0.154 (0.202) C:92% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.959 ± 0.367 (0.535) C:81% T:92%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	1.27 ± 0.521 (0.737)	pCi/L		09/22/22 16:49	
<b>92623277008</b>	<b>YGWA-1D</b>					
EPA 9315	Radium-226	0.248 ± 0.149 (0.239) C:94% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.579 ± 0.293 (0.483) C:82% T:88%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.827 ± 0.442 (0.722)	pCi/L		09/22/22 16:49	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92623277009</b>	<b>YGWA-2I</b>					
EPA 9315	Radium-226	0.0872 ± 0.111 (0.234) C:93% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.612 ± 0.309 (0.528) C:83% T:94%	pCi/L		09/21/22 11:52	
Total Radium Calculation	Total Radium	0.699 ± 0.420 (0.762)	pCi/L		09/22/22 16:49	
<b>92623277010</b>	<b>YGWA-30I</b>					
EPA 9315	Radium-226	-0.0454 ± 0.0594 (0.213) C:94% T:NA	pCi/L		09/21/22 19:39	
EPA 9320	Radium-228	0.506 ± 0.326 (0.611) C:81% T:92%	pCi/L		09/21/22 15:02	
Total Radium Calculation	Total Radium	0.506 ± 0.385 (0.824)	pCi/L		09/22/22 16:49	
<b>92623277011</b>	<b>YGWA-14S</b>					
EPA 9315	Radium-226	0.0608 ± 0.106 (0.240) C:99% T:NA	pCi/L		09/21/22 18:12	
EPA 9320	Radium-228	0.360 ± 0.304 (0.605) C:81% T:90%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.421 ± 0.410 (0.845)	pCi/L		09/22/22 16:49	
<b>92623277012</b>	<b>YGWA-1I</b>					
EPA 9315	Radium-226	0.0430 ± 0.0679 (0.146) C:98% T:NA	pCi/L		09/21/22 18:12	
EPA 9320	Radium-228	0.447 ± 0.314 (0.593) C:78% T:94%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.490 ± 0.382 (0.739)	pCi/L		09/22/22 16:49	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92623277013</b>	<b>YGWA-47</b>					
EPA 9315	Radium-226	0.367 ± 0.173 (0.233) C:98% T:NA	pCi/L		09/22/22 08:08	
EPA 9320	Radium-228	0.347 ± 0.308 (0.623) C:81% T:95%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.714 ± 0.481 (0.856)	pCi/L		09/22/22 16:49	
<b>92623277014</b>	<b>YGWA-4I</b>					
EPA 9315	Radium-226	0.625 ± 0.214 (0.185) C:97% T:NA	pCi/L		09/22/22 08:43	
EPA 9320	Radium-228	0.337 ± 0.338 (0.698) C:82% T:89%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.962 ± 0.552 (0.883)	pCi/L		09/22/22 16:49	
<b>92623277015</b>	<b>YGWA-20S</b>					
EPA 9315	Radium-226	0.126 ± 0.104 (0.183) C:96% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.0579 ± 0.297 (0.681) C:81% T:91%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.184 ± 0.401 (0.864)	pCi/L		09/22/22 16:49	
<b>92623277016</b>	<b>YGWA-39</b>					
EPA 9315	Radium-226	0.642 ± 0.214 (0.200) C:97% T:NA	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	0.295 ± 0.310 (0.641) C:80% T:91%	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	0.937 ± 0.524 (0.841)	pCi/L		09/22/22 16:49	

### REPORT OF LABORATORY ANALYSIS

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### SUMMARY OF DETECTION

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
<b>92623277017</b>	<b>YGWA-40</b>					
EPA 9315	Radium-226	0.202 ± 0.139 (0.236)	pCi/L		09/22/22 10:18	
EPA 9320	Radium-228	C:98% T:NA 0.311 ± 0.325 (0.675)	pCi/L		09/21/22 15:03	
Total Radium Calculation	Total Radium	C:77% T:95% 0.513 ± 0.464 (0.911)	pCi/L		09/22/22 16:49	
<b>92623277018</b>	<b>YGWA-3I</b>					
EPA 9315	Radium-226	0.647 ± 0.215 (0.149)	pCi/L		09/22/22 10:19	
EPA 9320	Radium-228	C:92% T:NA 0.687 ± 0.386 (0.703)	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	C:80% T:89% 1.33 ± 0.601 (0.852)	pCi/L		09/22/22 16:49	
<b>92623277019</b>	<b>YGWA-3D</b>					
EPA 9315	Radium-226	1.19 ± 0.306 (0.187)	pCi/L		09/22/22 12:51	
EPA 9320	Radium-228	C:92% T:NA 0.927 ± 0.394 (0.629)	pCi/L		09/21/22 15:04	
Total Radium Calculation	Total Radium	C:81% T:92% 2.12 ± 0.700 (0.816)	pCi/L		09/22/22 16:49	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YGWA-17S</b> <b>Lab ID: 92623277001</b> Collected: 08/30/22 15:40      Received: 08/31/22 11:03      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.114 ± 0.0935 (0.148)</b> <b>C:97% T:NA</b>	pCi/L	09/21/22 16:06	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.964 ± 0.357 (0.496)</b> <b>C:79% T:96%</b>	pCi/L	09/21/22 11:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.08 ± 0.451 (0.644)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YGWA-18S</b> <b>Lab ID: 92623277002</b> Collected: 08/30/22 10:10      Received: 08/31/22 11:03      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0688 ± 0.0906 (0.189)</b> <b>C:97% T:NA</b>	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.542 ± 0.287 (0.493)</b> <b>C:82% T:95%</b>	pCi/L	09/21/22 11:51	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.611 ± 0.378 (0.682)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YGWA-181</b> <b>Lab ID: 92623277003</b> Collected: 08/30/22 13:35      Received: 08/31/22 11:03      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0453 ± 0.0847 (0.194)</b> <b>C:91% T:NA</b>	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.961 ± 0.372 (0.555)</b> <b>C:81% T:93%</b>	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.01 ± 0.457 (0.749)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: GWA-2</b> <b>Lab ID: 92623277004</b> Collected: 08/30/22 10:05      Received: 08/31/22 11:03      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.181 ± 0.124 (0.194)</b> <b>C:91% T:NA</b>	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>1.34 ± 0.454 (0.623)</b> <b>C:83% T:89%</b>	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.52 ± 0.578 (0.817)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-5I**      **Lab ID: 92623277005**      Collected: 08/30/22 10:52      Received: 08/31/22 11:03      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0755 ± 0.109 (0.238)</b> <b>C:95% T:NA</b>	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.644 ± 0.326 (0.564)</b> <b>C:79% T:97%</b>	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.720 ± 0.435 (0.802)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YGWA-5D</b> <b>Lab ID: 92623277006</b> Collected: 08/30/22 12:05      Received: 08/31/22 11:03      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>3.13 ± 0.626 (0.210)</b> <b>C:93% T:NA</b>	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>2.21 ± 0.587 (0.575)</b> <b>C:82% T:89%</b>	pCi/L	09/21/22 11:52	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>5.34 ± 1.21 (0.785)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YGWA-211</b> <b>Lab ID: 92623277007</b> Collected: 08/30/22 14:30      Received: 08/31/22 11:03      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.307 ± 0.154 (0.202)</b> <b>C:92% T:NA</b>	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.959 ± 0.367 (0.535)</b> <b>C:81% T:92%</b>	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>1.27 ± 0.521 (0.737)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YGWA-1D</b> <b>Lab ID: 92623277008</b> Collected: 08/30/22 13:50      Received: 08/31/22 11:03      Matrix: Water PWS:      Site ID:      Sample Type:						
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.248 ± 0.149 (0.239)</b> <b>C:94% T:NA</b>	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.579 ± 0.293 (0.483)</b> <b>C:82% T:88%</b>	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.827 ± 0.442 (0.722)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-2I**      **Lab ID: 92623277009**      Collected: 08/30/22 10:00      Received: 08/31/22 11:03      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0872 ± 0.111 (0.234)</b> <b>C:93% T:NA</b>	pCi/L	09/21/22 19:39	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.612 ± 0.309 (0.528)</b> <b>C:83% T:94%</b>	pCi/L	09/21/22 11:52	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.699 ± 0.420 (0.762)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-30I**      **Lab ID: 92623277010**      Collected: 08/31/22 11:30      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>-0.0454 ± 0.0594 (0.213)</b> <b>C:94% T:NA</b>	pCi/L	09/21/22 19:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.506 ± 0.326 (0.611)</b> <b>C:81% T:92%</b>	pCi/L	09/21/22 15:02	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.506 ± 0.385 (0.824)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-14S**      **Lab ID: 92623277011**      Collected: 08/31/22 14:15      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0608 ± 0.106 (0.240)</b> <b>C:99% T:NA</b>	pCi/L	09/21/22 18:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.360 ± 0.304 (0.605)</b> <b>C:81% T:90%</b>	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.421 ± 0.410 (0.845)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-11**      **Lab ID: 92623277012**      Collected: 08/31/22 09:10      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.0430 ± 0.0679 (0.146)</b> <b>C:98% T:NA</b>	pCi/L	09/21/22 18:12	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.447 ± 0.314 (0.593)</b> <b>C:78% T:94%</b>	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.490 ± 0.382 (0.739)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-47**      **Lab ID: 92623277013**      Collected: 08/31/22 09:15      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.367 ± 0.173 (0.233)</b> <b>C:98% T:NA</b>	pCi/L	09/22/22 08:08	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.347 ± 0.308 (0.623)</b> <b>C:81% T:95%</b>	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.714 ± 0.481 (0.856)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-4I**      **Lab ID: 92623277014**      Collected: 08/31/22 15:37      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.625 ± 0.214 (0.185)</b> <b>C:97% T:NA</b>	pCi/L	09/22/22 08:43	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.337 ± 0.338 (0.698)</b> <b>C:82% T:89%</b>	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.962 ± 0.552 (0.883)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
<b>Sample: YGWA-20S</b> <b>Lab ID: 92623277015</b> Collected: 08/31/22 12:57      Received: 09/01/22 09:05      Matrix: Water PWS:      Site ID:      Sample Type:						
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.126 ± 0.104 (0.183)</b> <b>C:96% T:NA</b>	pCi/L	09/22/22 10:18	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.0579 ± 0.297 (0.681)</b> <b>C:81% T:91%</b>	pCi/L	09/21/22 15:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>0.184 ± 0.401 (0.864)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-39**      **Lab ID: 92623277016**      Collected: 08/31/22 13:50      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.642 ± 0.214 (0.200)</b> <b>C:97% T:NA</b>	pCi/L	09/22/22 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.295 ± 0.310 (0.641)</b> <b>C:80% T:91%</b>	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.937 ± 0.524 (0.841)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-40**      **Lab ID: 92623277017**      Collected: 08/31/22 16:40      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	<b>0.202 ± 0.139 (0.236)</b> <b>C:98% T:NA</b>	pCi/L	09/22/22 10:18	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	<b>0.311 ± 0.325 (0.675)</b> <b>C:77% T:95%</b>	pCi/L	09/21/22 15:03	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	<b>0.513 ± 0.464 (0.911)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-3I**      **Lab ID: 92623277018**      Collected: 08/31/22 10:54      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>0.647 ± 0.215 (0.149)</b> <b>C:92% T:NA</b>	pCi/L	09/22/22 10:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.687 ± 0.386 (0.703)</b> <b>C:80% T:89%</b>	pCi/L	09/21/22 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>1.33 ± 0.601 (0.852)</b>	pCi/L	09/22/22 16:49	7440-14-4	

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### ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

**Sample: YGWA-3D**      **Lab ID: 92623277019**      Collected: 08/31/22 09:30      Received: 09/01/22 09:05      Matrix: Water  
PWS:      Site ID:      Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	<b>1.19 ± 0.306 (0.187)</b> <b>C:92% T:NA</b>	pCi/L	09/22/22 12:51	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	<b>0.927 ± 0.394 (0.629)</b> <b>C:81% T:92%</b>	pCi/L	09/21/22 15:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	<b>2.12 ± 0.700 (0.816)</b>	pCi/L	09/22/22 16:49	7440-14-4	

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

QC Batch: 530872

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

METHOD BLANK: 2574649

Matrix: Water

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0321 ± 0.0991 (0.243) C:97% T:NA	pCi/L	09/21/22 16:07	

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

### REPORT OF LABORATORY ANALYSIS

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### QUALITY CONTROL - RADIOCHEMISTRY

Project: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

QC Batch: 530871

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

METHOD BLANK: 2574648

Matrix: Water

Associated Lab Samples: 92623277001, 92623277002, 92623277003, 92623277004, 92623277005, 92623277006, 92623277007, 92623277008, 92623277009, 92623277010, 92623277011, 92623277012, 92623277013, 92623277014, 92623277015, 92623277016, 92623277017, 92623277018, 92623277019

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.757 ± 0.340 (0.552) C:80% T:96%	pCi/L	09/21/22 11:51	

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: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

---

### 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: Yates Pooled Upgradient Rads

Pace Project No.: 92623277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623277001	YGWA-17S	EPA 9315	530872		
92623277002	YGWA-18S	EPA 9315	530872		
92623277003	YGWA-18I	EPA 9315	530872		
92623277004	GWA-2	EPA 9315	530872		
92623277005	YGWA-5I	EPA 9315	530872		
92623277006	YGWA-5D	EPA 9315	530872		
92623277007	YGWA-21I	EPA 9315	530872		
92623277008	YGWA-1D	EPA 9315	530872		
92623277009	YGWA-2I	EPA 9315	530872		
92623277010	YGWA-30I	EPA 9315	530872		
92623277011	YGWA-14S	EPA 9315	530872		
92623277012	YGWA-1I	EPA 9315	530872		
92623277013	YGWA-47	EPA 9315	530872		
92623277014	YGWA-4I	EPA 9315	530872		
92623277015	YGWA-20S	EPA 9315	530872		
92623277016	YGWA-39	EPA 9315	530872		
92623277017	YGWA-40	EPA 9315	530872		
92623277018	YGWA-3I	EPA 9315	530872		
92623277019	YGWA-3D	EPA 9315	530872		
92623277001	YGWA-17S	EPA 9320	530871		
92623277002	YGWA-18S	EPA 9320	530871		
92623277003	YGWA-18I	EPA 9320	530871		
92623277004	GWA-2	EPA 9320	530871		
92623277005	YGWA-5I	EPA 9320	530871		
92623277006	YGWA-5D	EPA 9320	530871		
92623277007	YGWA-21I	EPA 9320	530871		
92623277008	YGWA-1D	EPA 9320	530871		
92623277009	YGWA-2I	EPA 9320	530871		
92623277010	YGWA-30I	EPA 9320	530871		
92623277011	YGWA-14S	EPA 9320	530871		
92623277012	YGWA-1I	EPA 9320	530871		
92623277013	YGWA-47	EPA 9320	530871		
92623277014	YGWA-4I	EPA 9320	530871		
92623277015	YGWA-20S	EPA 9320	530871		
92623277016	YGWA-39	EPA 9320	530871		
92623277017	YGWA-40	EPA 9320	530871		
92623277018	YGWA-3I	EPA 9320	530871		
92623277019	YGWA-3D	EPA 9320	530871		
92623277001	YGWA-17S	Total Radium Calculation	534811		
92623277002	YGWA-18S	Total Radium Calculation	534811		
92623277003	YGWA-18I	Total Radium Calculation	534811		
92623277004	GWA-2	Total Radium Calculation	534811		
92623277005	YGWA-5I	Total Radium Calculation	534811		
92623277006	YGWA-5D	Total Radium Calculation	534811		
92623277007	YGWA-21I	Total Radium Calculation	534811		
92623277008	YGWA-1D	Total Radium Calculation	534811		
92623277009	YGWA-2I	Total Radium Calculation	534811		
92623277010	YGWA-30I	Total Radium Calculation	534811		

### REPORT OF LABORATORY ANALYSIS

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**QUALITY CONTROL DATA CROSS REFERENCE TABLE**

Project: Yates Pooled Upgradient Rads  
Pace Project No.: 92623277

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92623277011	YGWA-14S	Total Radium Calculation	534811		
92623277012	YGWA-11	Total Radium Calculation	534811		
92623277013	YGWA-47	Total Radium Calculation	534811		
92623277014	YGWA-4I	Total Radium Calculation	534811		
92623277015	YGWA-20S	Total Radium Calculation	534811		
92623277016	YGWA-39	Total Radium Calculation	534811		
92623277017	YGWA-40	Total Radium Calculation	534811		
92623277018	YGWA-3I	Total Radium Calculation	534811		
92623277019	YGWA-3D	Total Radium Calculation	534811		

**REPORT OF LABORATORY ANALYSIS**

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DC#\_ Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

Ga Power

Project:

WO#: 92623277



Courier:  FedEx  UPS  USPS  Client  Commercial  Pace  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Thermometer:

IR Gun ID: 214

Type of Ice:  Wet  Blue  None

Cooler Temp: 1.9 Correction Factor: Add/Subtract (°C) 0.0

Cooler Temp Corrected (°C): 1.9

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: 8/31/22 Jn

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

		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:	WG	
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

CLIENT NOTIFICATION/RESOLUTION

Lot ID of split containers:

pH Strip Lot# 10D4611

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

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

Date: \_\_\_\_\_

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

Date: \_\_\_\_\_



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

\*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#: 92623277

PM: NMG

Due Date: 09/22/22

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)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (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-)	VGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/
2	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	2	/	/	/	/
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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)



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

WO#: 92623277

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

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

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

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

\*\*\*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)	DG94-250 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2SO3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	DG9S-40 mL VOA H2SO4 (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	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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.

Section A Required Client Information:  
 Company: GA Power  
 Address: Atlanta, GA  
 Email To: [gauc@scsinc.com](mailto:gauc@scsinc.com)  
 Phone: 470.620.5178 Fax:  
 Requested Date:

Section B Required Project Information:  
 Report To: SCS Contracts  
 Copy To: Arcadis Contacts  
 Purchase Order #: Plant Yields Pooled Upgradient  
 Project Name: Plant Yields Pooled Upgradient  
 Project Number:

Section C Invoicing Information:  
 Attention: Souffran Co.  
 Company Name:  
 Address:  
 Place Order: Nicole D'Onofrio  
 Place Project Manager: Nicole D'Onofrio  
 Place Profile #: 10840

Page: 1 of 1

ITEMS	MATRIX	CODE	SAMPLE TYPE (Q-DRAW & COMP)	COLLECTED		SAMPLE TIME AT COLLECTION	# OF CONTAINERS	PRESERVATIVES						App 111 (Qsystem only)	Received on (Y/M)	Sample (Y/M)	Coded (Y/M)	Labels (Y/M)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	H2O2	Methanol					
YGWA-47	Water	WC G	Q-DRAW	8/30/05	-	-	5	2	3									
GWA-2	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-41	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-61	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-5D	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-17S	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-18S	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-181	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-20S	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-211	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-301	Water	WG G	Q-DRAW	-	-	-	5	2	3									
YGWA-14S	Water	WG G	Q-DRAW	-	-	-	5	2	3									

ARCADIS  
 200 D. C. F. Bulfinch  
 Boston MA 02108  
 Tel: 617.552.1100  
 Fax: 617.552.1101  
 Email: [gauc@scsinc.com](mailto:gauc@scsinc.com)

Project: 8/31/05  
 Location: Arcadia 8/31/05  
 Operator: Lynn Williams  
 Date: 8/31/05  
 Signature: Lynn Williams  
 Title: Project Manager

Received on (Y/M): 8/31/05  
 Sample (Y/M): 8/31/05  
 Coded (Y/M): 8/31/05  
 Labels (Y/M): 8/31/05

PROJECT NAME OF SAMPLER: Jeff Swanson  
 SIGNATURE OF SAMPLER: [Signature]  
 DATE OF REPORT: 8/31/05



# 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: jaywalker@southernco.com  
 Phone: 470.620.6176 Fax: \_\_\_\_\_  
 Acquisition Date: \_\_\_\_\_  
 Project Name: Plant Yields Probed Upgrade  
 Project Number: \_\_\_\_\_

**Section B**  
**Required Project Information:**  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Purchase Order #: \_\_\_\_\_  
 Project Name: Plant Yields Probed Upgrade  
 Project Number: \_\_\_\_\_

**Section C**  
**Incident Information:**  
 Attention: Southern Co.  
 Address: \_\_\_\_\_  
 Piece Order: \_\_\_\_\_  
 Piece Project Manager: Nicole D'Ono  
 Piece Price #: 10040

Page: 1 of 1

ITEM #	LATCH CODE (see field notes to left)	COLLECTED		SAMPLE TYPE AT COLLECTION	PRESERVATIVES										App I / II (Dipsum only)	Received on	Label	Code	Temp	
		START	END		UNPROB	H3BO3	HNO3	HCl	NaOH	H2SO4	OTHER	App B/W Labels	CL, F, BQ4	TPS (250C)						PLD 9314530
		DATE	TIME		DATE	TIME														
YGWA-47	WD G				5	2	3													
GWA-2	WD G				5	2	3													
YGWA-41	WD G				5	2	3													
YGWA-51	WD G	8/24/21	10:52		5	2	3													
YGWA-5D	WD G	8/24/21	17:05		5	2	3													
YGWA-17S	WD G				5	2	3													
YGWA-18S	WD G				5	2	3													
YGWA-18I	WD G				5	2	3													
YGWA-20S	WD G				5	2	3													
YGWA-21I	WD G	8/24/21	14:20		5	2	3													
YGWA-30I	WD G				5	2	3													
YGWA-14S	WD G				5	2	3													

Autism: 200.0 (Cl, F, B, H, H, H)  
 App III Metals: Boron (B203), Ca (40100),  
 App IV Metals: Arsenic (As), Antimony (Sb), Arsenic (As), Barium (Ba),  
 Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb),  
 Lithium (Li), Manganese (Mn), Selenium (Se),  
 Th-232, Mercury (Hg)

Project: 8/31/21 1003  
 Date: 8/31/21  
 Signature: Mark Chest  
 Date: 8/31/21

# 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:	SOS Contracts	Address:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contract	Company Name:	
Project Name:	Plant Yates Flood Upgrade	Project Order #:		Address:	
Project Number:		Project Name:	Plant Yates Flood Upgrade	Plant Order #:	Nicole D'Onofrio
Plant Name:		Plant Order #:		Plant Order #:	10840

ITEM #	MATRIX CODE (see vial orders to kit)	SAMPLE TYPE (Q-QMS-Q-OMP)	COLLECTED		DAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES											App I / II (Biphenyl only)	App III / IV Metals	C.F. SQA	TDS (25401)	RAD (215/220)	Temp in C (Vial)	Checked on	By (Vial)	Capacity	Coated	Material	Temp in C (Vial)											
			START DATE TIME	END DATE TIME			Unpreserved	H2SO4	HNO3	HCl	HOAc	MASSCO3	Methanol	Other																										
1	YGWA-39	WC Q			8/31/12	800																																		
2	YGWA-40	WC Q																																						
3	YGWA-11	WC Q																																						
4	YGWA-1D	WC Q	8/30 1550		8/31/12	1003																																		
5	YGWA-2I	WC Q	8/30 1600		8/31/12	1003																																		
6	YGWA-3I	WC Q			8/31/12	1003																																		
7	YGWA-3D	WC Q			8/31/12	1003																																		
				Michelle Carson		8/31/12	800																																	
				Michelle Carson		8/31/12	1003																																	
				Michelle Carson		8/31/12	1003																																	

Address: 33010 (C), F, Sullivan	Address: 33010 (C), F, Sullivan
App II Metals: Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Manganese (Mn), Mercury (Hg), Selenium (Se), Silver (Ag), Vanadium (V), Zinc (Zn)	App II Metals: Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Manganese (Mn), Mercury (Hg), Selenium (Se), Silver (Ag), Vanadium (V), Zinc (Zn)
App IV Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Nickel (Ni), Silver (Ag), Vanadium (V), Zinc (Zn)	App IV Metals: Antimony (Sb), Arsenic (As), Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Manganese (Mn), Mercury (Hg), Selenium (Se), Silver (Ag), Vanadium (V), Zinc (Zn)

PREPARED BY: <u>Michelle Carson</u> SIGNATURE OF SUBMITTER: <u>[Signature]</u> TITLE: <u>Project Manager</u>
--

32707  
3726

**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: lavacost@southernco.com  
Phone: 470.620.6176  
Requested Due Date:  
**Section B**  
Required Project Information:  
Report To: SCS Contracts  
Copy To: Arcadis Contacts  
Purchase Order #: Plant Yates Pooled Upgrade  
Project Name: Nicole D'Orso  
Project Number:  
**Section C**  
Location Information:  
Address: Southern Co.  
Company Name:  
Plant Code:  
Plant Project Manager: Nicole D'Orso  
Plant Profile #: 10840

Page: 4 of 2

ITEM #	MATRIX TYPE (see field order to left)	SAMPLE TYPE (e.g. GMA C-COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLER TRIP AT COLLECTION	LAPSE	App III / IV Matrix	Q. F. 904	TDS (250C)	RAD B315/9320	App I / II (ppm only)	Residual Chlorine (Y/N)
			START	END												
YGWA-39	WC G										X	X	X	X	X	
YGWA-40	WC G										X	X	X	X	X	
YGWA-11	WC G										X	X	X	X	X	
YGWA-1D	WC G										X	X	X	X	X	
YGWA-21	WC G										X	X	X	X	X	
YGWA-31	WC G										X	X	X	X	X	
YGWA-30	WC G										X	X	X	X	X	

**Section D**  
Analytical Suite: 300.0 (C, F, Sulfide)  
App III Matrix: GA Power, Ca 60160  
App IV Matrix: Zn, Ag, Ni, V  
App IV Matrix 60208: Arsimony (Sn), Asbestos (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)  
70404: Mercury (Hg)  
Signature: [Signature]  
Date: 9/1/22  
DATE SIGNATURE: 9/1/22

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: GA Power		Report To: SCS Contacts		Account: Southern Co.	
Address: Atlanta, GA		Copy To: Arcadis Contacts		Company Name:	
Email To: <a href="mailto:blanchard@southernco.com">blanchard@southernco.com</a>		Purchase Order #:		Address:	
Phone: 470.620.6176		Project Name: Plant Yales Pooled Upgrade		Plant Name:	
Requested Due Date:		Project Number:		Plant Project Manager: Nicole D'Ono	
				Plant Project ID: 10840	

ITEM #	MATRIX CODE (see veld codes to left)	SAMPLE TYPE (a-draws c-only)	COLLECTED		DATE	TIME	DATE	TIME	TEMP °C	APPROVED SIGNATURE	DATE	RECEIVED ON	RECEIVED BY	RECEIVED ON	RECEIVED BY	
			START	END												
YGWA-39	WG G	G	8/16/13	1357												
YGWA-40	WG G	G	8/16/13	1410												
YGWA-11	WG G	G														
YGWA-1D	WG G	G														
YGWA-21	WG G	G														
YGWA-31	WG G	G														
YGWA-3D	WG G	G														

Analytical Request Information: App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) App N: Metals (Sb), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) Road: Mercury (Hg)		Analytical Request Information: App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) App N: Metals (Sb), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) Road: Mercury (Hg)	
Analytical Request Information: App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) App N: Metals (Sb), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) Road: Mercury (Hg)		Analytical Request Information: App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) App N: Metals (Sb), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) Road: Mercury (Hg)	
Analytical Request Information: App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) App N: Metals (Sb), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) Road: Mercury (Hg)		Analytical Request Information: App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) App N: Metals (Sb), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se) Road: Mercury (Hg)	

Analytical Request Information:  
 App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se)  
 App N: Metals (Sb), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se)  
 Road: Mercury (Hg)

Analytical Request Information:  
 App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se)  
 App N: Metals (Sb), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se)  
 Road: Mercury (Hg)

Analytical Request Information:  
 App B Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se)  
 App N: Metals (Sb), Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se)  
 Road: Mercury (Hg)



**CHAIN-OF-CUSTODY / Analytical Request Document**  
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<b>Section A</b> Requested Client Information:		<b>Section B</b> Required Project Information:		<b>Section C</b> Invoice Information:	
Company:	GA Power	Report To:	SCS Contracts	Account:	Southam Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contracts	Company Name:	
Email To:	hsc@arcadisusa.com	Purchase Order #:		Address:	
Phone:	470.620.8176	Project Name:	Plant Valve Pooled Upgrade/1	Price Quote:	
Requested Due Date:		Project Number:		Price Project Manager:	Nazare D'Oliveira
				Price Profile #:	10840

ITEM #	MATRIX CODE (see field notes to left)	SAMPLE TYPE (Q=QWA, C=COMP)	COLLECTED		SAMPLE TRAP AT COLLECTION	POP CONTAINERS	PRESERVATIVES						App I/D (openium only)	Received on	Temp in C	Lab	Category	Coded	Samples	Y/N			
			START DATE	END DATE			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Other											
YGWA-47	WG G	G	9/13/10			5	2	3															
GWA-2	WG G	G				5	2	3															
YGWA-41	WG G	G				5	2	3															
YGWA-61	WG G	G				5	2	3															
YGWA-60	WG G	G				5	2	3															
YGWA-17S	WG G	G				5	2	3															
YGWA-18S	WG G	G				5	2	3															
YGWA-18I	WG G	G				5	2	3															
YGWA-20S	WG G	G				5	2	3															
YGWA-21I	WG G	G				5	2	3															
YGWA-30I	WG G	G				5	2	3															
YGWA-14S	WG G	G				5	2	3															

Field Notes: 9/13/10, 9/14/10, 9/15/10, 9/16/10, 9/17/10, 9/18/10, 9/19/10, 9/20/10, 9/21/10, 9/22/10, 9/23/10, 9/24/10, 9/25/10, 9/26/10, 9/27/10, 9/28/10, 9/29/10, 9/30/10, 10/1/10, 10/2/10, 10/3/10, 10/4/10, 10/5/10, 10/6/10, 10/7/10, 10/8/10, 10/9/10, 10/10/10, 10/11/10, 10/12/10, 10/13/10, 10/14/10, 10/15/10, 10/16/10, 10/17/10, 10/18/10, 10/19/10, 10/20/10, 10/21/10, 10/22/10, 10/23/10, 10/24/10, 10/25/10, 10/26/10, 10/27/10, 10/28/10, 10/29/10, 10/30/10, 11/1/10, 11/2/10, 11/3/10, 11/4/10, 11/5/10, 11/6/10, 11/7/10, 11/8/10, 11/9/10, 11/10/10, 11/11/10, 11/12/10, 11/13/10, 11/14/10, 11/15/10, 11/16/10, 11/17/10, 11/18/10, 11/19/10, 11/20/10, 11/21/10, 11/22/10, 11/23/10, 11/24/10, 11/25/10, 11/26/10, 11/27/10, 11/28/10, 11/29/10, 11/30/10, 12/1/10, 12/2/10, 12/3/10, 12/4/10, 12/5/10, 12/6/10, 12/7/10, 12/8/10, 12/9/10, 12/10/10, 12/11/10, 12/12/10, 12/13/10, 12/14/10, 12/15/10, 12/16/10, 12/17/10, 12/18/10, 12/19/10, 12/20/10, 12/21/10, 12/22/10, 12/23/10, 12/24/10, 12/25/10, 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2377  
3226

# 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: [Inquiries@southernco.com](mailto:Inquiries@southernco.com)  
 Phone: 470.620.6176 Fax:  
 Requested Due Date:

**Section B**  
 Requested Project Information:  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Purchase Order #: Plant Yastes Pooled Upgrade  
 Project Name: Nickel D'Ouro  
 Project Number: 10840

**Section C**  
 Invoicing Information:  
 Vendor: Southern Co.  
 Company Name:  
 Address:  
 Plant Project Manager: Nickolas D'Ouro  
 Plant Profile #: 10840

Page: 1 of 2

FILM #	MATERIAL CODE (see wild codes to left)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES										App BVA Metals	Cl. F. SQA	TDB (2640C)	RAD 9319/9320	Add'l II (Brysum only)	Residual Chlorine (VNI)
		START DATE	END DATE			H2SO4	HNO3	HCl	NaOH	MgSO4	Methanol	Other									
YGWA-67	WG G	9/17/13	-	0800	5	2															
YGWA-2	WG G	9/17/13	-	0800	5	2															
YGWA-4	WG G	9/17/13	-	0800	5	2															
YGWA-5	WG G	9/17/13	-	0800	5	2															
YGWA-5D	WG G	9/17/13	-	0800	5	2															
YGWA-178	WG G	9/17/13	-	0800	5	2															
YGWA-16S	WG G	9/17/13	-	0800	5	2															
YGWA-181	WG G	9/17/13	-	0800	5	2															
YGWA-20S	WG G	9/17/13	-	0800	5	2															
YGWA-211	WG G	9/17/13	-	0800	5	2															
YGWA-301	WG G	9/17/13	-	0800	5	2															
YGWA-14S	WG G	9/17/13	-	0800	5	2															

**Section D**  
 Arizona Scale 330.0 (Cl. F. Subst)  
 App ID Number: B0208, Ca 00180;  
 App ID 0208, Zn, Ag, Ni, V

**Section E**  
 App ID: Metals 0208; Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Thallium (Tl), Vanadium (V), Zinc (Zn)

Plant Name of Sample: *Whall Case*  
 Signature of Sample: *Whall Case*  
 DATE SIGNED: *9/17/13*

TIME	DATE	INITIALS	DESCRIPTION
0800	9/17/13	<i>Whall Case</i>	<i>Whall Case</i>
1055	9/17/13	<i>Whall Case</i>	<i>Whall Case</i>
0800	9/18/13	<i>Whall Case</i>	<i>Whall Case</i>
1055	9/18/13	<i>Whall Case</i>	<i>Whall Case</i>

# 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	<b>Section B</b> Required Project Information: Report To: SCS Contacts Copy To: Arcadis Contacts	<b>Section C</b> Invoice Information: Attention: Southern Co. Company Name Address:	Page:   Of
Email To: laucoker@southernco.com Phone: 470.620.6176 Requested Date:	Purchase Order #: Plant Yates Pooled Upgradient Project Name: Nicole D'Oléo Project Number: 10840	Pace Order: Pace Project Manager: Nicole D'Oléo Pace Profile #: 10840	

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES	ANALYSES TEST	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	pH:
			START	END									
			DATE	TIME									
1	YGWA-47	DW	8/30	1005	G	WG	5	H2SO4 Unpreserved	X				
2	GWA-2	WW			G	WG	5	HCl	X				
3	YGWA-41	WV			G	WG	5	NaOH	X				
4	YGWA-51	P			G	WG	5	HNO3	X				
5	YGWA-5D	SL			G	WG	5	HNO3	X				
6	YGWA-17S	OL			G	WG	5	HNO3	X				
7	YGWA-18S	WP			G	WG	5	HNO3	X				
8	YGWA-181	AP			G	WG	5	HNO3	X				
9	YGWA-20S	OT			G	WG	5	HNO3	X				
10	YGWA-211	TS			G	WG	5	HNO3	X				
11	YGWA-301				G	WG	5	HNO3	X				
12	YGWA-14S				G	WG	5	HNO3	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS	
Arsenic (As) 6020B; Barium (Ba) 6020B; Beryllium (Be) 6020B; Boron 6020B; Cadmium (Cd) 6020B; Calcium (Ca) 6010D; Chromium (Cr) 6020B; Cobalt (Co) 6020B; Copper (Cu) 6020B; Lead (Pb) 6020B; Lithium (Li) 6020B; Manganese (Mn) 6020B; Mercury (Hg) 6020B; Nickel (Ni) 6020B; Nitrogen (N) 6020B; Selenium (Se) 6020B; Silver (Ag) 6020B; Vanadium (V) 6020B; Zinc (Zn) 6020B.	[Signature] Arcadis	Ryan Williams / Pace	8/31/22	8:00	[Signature] Arcadis	Ryan Williams / Pace	8/31/22	0800	Sealed Custody	3277
	[Signature] Arcadis	Ryan Williams / Pace	8/31/22	1003	[Signature] Arcadis	Ryan Williams / Pace	8/31/22	1153	Cooler	
	[Signature] Arcadis	Ryan Williams / Pace	8/31/22	1153	[Signature] Arcadis	Ryan Williams / Pace	8/31/22	1153	Ice	

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: JEFF SEARSON SIGNATURE of SAMPLER: [Signature]		DATE SIGNED: 8/31/22
TEMP in C		
Received on		
Sealed Custody		
Cooler		
Samples Intact (Y/N)		

# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
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:	jaucokar@southernco.com	Purchase Order #:		Address:	
Phone:	470.620.6176	Project Name:	Plant Yates Pooled Upgradient	Plant Project Manager:	Nicole D'Oleo
Requested Due Date:		Project Number:		Plant Profile #:	10840
Regulatory Agency:		State / Location:		Georgia	

Page: | Of |

ITEM #	MATRIX	MATRIX CODE	COLLECTED		SAMPLE TYPE (G-GRAB C=COMP)	# OF CONTAINERS	PRESERVATIVES						Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I/II (gpy-sum only)	DATE	TIME	TEMP in C	Received on	Custody (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Samples Intact (Y/N)		
			START DATE	END DATE			H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol															Other	
1	YGWA-47	WG G			G	5	2	3					X	X	X	X	X											
2	GWA-2	WG G			G	5	2	3					X	X	X	X	X											
3	YGWA-41	WG G			G	5	2	3					X	X	X	X	X											
4	YGWA-51	WG G			G	5	2	3					X	X	X	X	X											
5	YGWA-5D	WG G			G	5	2	3					X	X	X	X	X											
6	YGWA-17S	WG G	8/30	1540	G	5	2	3					X	X	X	X	X											
7	YGWA-18S	WG G	8/30	1030	G	5	2	3					X	X	X	X	X											
8	YGWA-181	WG G	8/30	1335	G	5	2	3					X	X	X	X	X											
9	YGWA-20S	WG G			G	5	2	3					X	X	X	X	X											
10	YGWA-211	WG G			G	5	2	3					X	X	X	X	X											
11	YGWA-301	WG G			G	5	2	3					X	X	X	X	X											
12	YGWA-14S	WG G			G	5	2	3					X	X	X	X	X											

Handwritten: 1010 2 3

Handwritten: 3226

RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
<i>Stephan D... Arcadis</i>	8/31/22	0750	<i>Stephan D... Arcadis</i>	8/31/22	0750
<i>William Payne</i>	8/31/22	1002	<i>William Payne</i>	8/31/22	1003
<i>William Payne</i>	8/31/22	1153	<i>William Payne</i>	8/31/22	1153

Amiens Suite 300.0 (Cl, F, Sulfate)  
 App III Metals: Barium (Ba), Bismuth (Bi), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se)  
 7040A- Mercury (Hg)

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER:	Jessica Ware
SIGNATURE OF SAMPLER:	<i>Jessica Ware</i>
DATE Signed:	8/31/22



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. Section B: Required Project Information. Report To: SCS Contacts, Copy To: Arcadis Contacts. Section C: Invoice Information. Attention: Southern Co., Company Name: Southern Co., Address: [blank].

Main data table with columns: LTM #, MATRIX CODE, COLLECTED (START/END DATE/TIME), RELINQUISHED BY / AFFILIATION, DATE, TIME, ACCEPTED BY / AFFILIATION, DATE, TIME, ANALYSIS TEST, PRESERVATIVES, REQUESTED ANALYSIS FILTERED (Y/N), Residual Chlorine (Y/N), and SAMPLE CONDITIONS.

Additional Comments: Anions Suite 300.0 (Cl, F, Sulfate), App III Metals: Boron 6020B, Ca 6010D, App I/II 6020B: Zn, Ag, Ni, V. Signatures and dates for relinquisher and acceptor.



DC#\_Title: ENV-FRM-HUN1-0083 v01\_Sample Condition Upon Receipt

Effective Date: 05/12/2022

Laboratory receiving samples:

Asheville  Eden  Greenwood  Huntersville  Raleigh  Mechanicsville  Atlanta  Kernersville

Sample Condition Upon Receipt

Client Name:

GA Power

Project #:

WO#: 92623277

PM: NMG

Due Date: 09/22/22

CLIENT: GA-GA Power

Courier:  Commercial  Fed Ex  UPS  USPS  Client  Other:

Custody Seal Present?  Yes  No Seals Intact?  Yes  No

Date/Initials Person Examining Contents: 9/1/22

Packing Material:  Bubble Wrap  Bubble Bags  None  Other

Biological Tissue Frozen?

Yes  No  N/A

Thermometer:

IR Gun ID: 230

Type of Ice:  Wet  Blue  None

Cooler Temp: 2.5 Correction Factor: Add/Subtract (°C) 6.0

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.5

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 checked="" type="checkbox"/> N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required?  Yes  No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

pH Strip Lot# 10D4611

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

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

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

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3226

Page: 1 Of 2

### 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: Allianta, GA  
 Email To: laucoker@southernco.com  
 Phone: 470.620.6176  
 Requested Due Date:

**Section B**  
**Required Project Information:**  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Purchase Order #:   
 Project Name: Plant Yates Pooled Upgradient  
 Project Number:   
 Pease Project Manager: Nicole D'Oleio  
 Pease Profile #: 10840

**Section C**  
**Invoice Information:**  
 Attention: Southern Co.  
 Company Name:   
 Address:   
 Pease Office:   
 Regulatory Agency:   
 State / Location: Georgia

ITEM #	MATRIX	CODE	COLLECTED		SAMPLE TYPE (G-GRAB C-COMP)	MATRIX CODE (see valid codes to left)	# OF CONTAINERS	PRESERVATIVES				Y/N	Analyses Test	App III Metals	CI, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (pysum only)	Residual Chrome (Y/N)	pH:
			START DATE	END DATE				START TIME	END TIME	UNPRESERVED	H2SO4									
1	YGWA-47	WG G					5	2	3				X	X	X	X				
2	GWA-2	WG G					5	2	3				X	X	X	X				
3	YGWA-41	WG G					5	2	3				X	X	X	X				
4	YGWA-51	WG G					5	2	3				X	X	X	X				
5	YGWA-5D	WG G					5	2	3				X	X	X	X				
6	YGWA-17S	WG G					5	2	3				X	X	X	X				
7	YGWA-18S	WG G					5	2	3				X	X	X	X				
8	YGWA-181	WG G					5	2	3				X	X	X	X				
9	YGWA-20S	WG G					5	2	3				X	X	X	X				
10	YGWA-211	WG G					5	2	3				X	X	X	X				
11	YGWA-301	WG G	9/13/1130				5	2	3				X	X	X	X				
12	YGWA-14S	WG G	9/15/1415				5	2	3				X	X	X	X				

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE		ACCEPTED BY / AFFILIATION		DATE		TIME		SAMPLE CONDITIONS	
Anions Suite 300.0 (Cl, F, Sulfate)	Khalil Carter / Arcadis		9/11/22	0800	Ryan Williams / Peac		9/11/22	0915				
App III Metals: Boron 6020B, Ca 6010D, App VII 6020B, Zn, Ag, Ni, V	Ryan Williams / Peac		9/11/22	1053	Ryan Williams / Peac		9/11/22	0915				
App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), 7040A, Mercury (Hg)												

**SAMPLER NAME AND SIGNATURE**  
 PRINT Name of SAMPLER: Khalil Carter  
 SIGNATURE of SAMPLER: *[Signature]*  
 DATE Signed: 9/11



# 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: jauckler@southernco.com  
 Phone: 470.620.8176 Fax  
 Requested Due Date:

**Section B**  
 Required Project Information:  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Purchase Order #:   
 Project Name: Plant Yates Pooled Upgrademnt  
 Project Number:

**Section C**  
 Invoice Information:  
 Attention: Southern Co.  
 Address:  
 Pico Quota:  
 Pico Project Manager: Nicole D'Orlo  
 Pico Profile #: 10840

Page: 2 of 3

Company:	GA Power	Report To:	SCS Contacts
Address:	Atlanta, GA	Copy To:	Arcadis Contacts
Email To:	jauckler@southernco.com	Purchase Order #:	
Phone:	470.620.8176 Fax	Project Name:	Plant Yates Pooled Upgrademnt
Requested Due Date:		Project Number:	

ITEM #	SAMPLE ID One Character per box: (A-Z, 0-9 / , - ) Sample IDs must be unique	MATRIX Drinking Water Water Waste Water Product Sewer Air Other Time	CODE DW WT WW P SL WP AR OT TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analyses Test	Y/N	Requested Analysis Method (RAM)	Residual Chlorine (Y/N)	State / Location	Regulatory Agency														
						START	END							Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol							Other													
1	YGWA-39			WG G									5	2	3																									
2	YGWA-40			WG G									5	2	3																									
3	YGWA-11			WG G									5	2	3																									
4	YGWA-1D			WG G									5	2	3																									
5	YGWA-21			WG G									5	2	3																									
6	YGWA-31			WG G									5	2	3																									
7	YGWA-3D			WG G									5	2	3																									
8																																								
9																																								
10																																								
11																																								
12																																								

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
	Maui Cust Arcadis	8/1/12	0800	William Carson	9/1/12	0800	Received on ice (Y/N) Custody Sealed Cooler (Y/N) Samples Intact (Y/N)
	App II Metals: Boron 6020B Ca 6010D: App III 6020B: Zn, Ag, Ni, V	9/1/12	1056	William Carson	9/1/12	0905	
	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), Thallium (Tl), Mercury (Hg)						

SAMPLER NAME AND SIGNATURE  
 PRINT Name of SAMPLER: William Carson  
 SIGNATURE of SAMPLER: [Signature]

DATE Signed: 9/1

TEMP in C





# CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company: GA Power	Report To: SCS Contacts	Report To: SCS Contacts	Company Name: Southern Co.	Attention: Southern Co.	Company Name: Southern Co.
Address: Atlanta, GA	Copy To: Arcadis Contacts	Copy To: Arcadis Contacts	Address:	Address:	Address:
Email To: laucoker@southernco.com	Purchase Order #:	Purchase Order #:	Plant Yates Pooled Upgradient	Plant Project Manager: Nicole D'Oleo	Plant Project Manager: Nicole D'Oleo
Phone: 470.620.6176	Project Name:	Project Name:	Plant Profile #: 10840	State / Location: Georgia	State / Location: Georgia
Requested Due Date:	Project Number:	Project Number:			

Page: 1 Of 1

ITEM #	MATRIX	CODE	COLLECTED	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Received on (Y/N)	Sealed (Y/N)	Cooler (Y/N)	Intact (Y/N)
1	Drinking Water	WG		M. Williams / Arcadis	9/1/22	1350	Ryan Williams / Pace	9/1/22	0905					
2	Drinking Water	WG		Ryan Williams / Pace	9/1/22	1440								
3	Drinking Water	WG												
4	Drinking Water	WG												
5	Drinking Water	WG												
6	Drinking Water	WG												
7	Drinking Water	WG												
8	Drinking Water	WG												
9	Drinking Water	WG												
10	Drinking Water	WG												
11	Drinking Water	WG												
12	Drinking Water	WG												

ADDITIONAL COMMENTS

Antons Suite 300.0 (Cl, F, Sulfate)

App III Metals: Boron 6020B, Ca 6010D, App VII 6020B; Zn, Ag, Ni, V

App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Manganese (Mn), Selenium (Se), Toluene (Tol), Mercury (Hg)

SAMPLER NAME AND SIGNATURE: *M. Williams*

PRINT Name of SAMPLER: M. Williams

SIGNATURE of SAMPLER: *M. Williams*

DATE Signed: 9/1/22

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Page: 4 of 2

**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: laucoker@southernco.com  
 Phone: 470.620.6176  
 Fax: [ ]  
 Requested Due Date: [ ]

**Section B**  
 Required Project Information:  
 Report To: SCS Contacts  
 Copy To: Arcadis Contacts  
 Purchase Order #: [ ]  
 Project Name: Plant Yates Pooled Upgradient  
 Project Number: [ ]

**Section C**  
 Invoice Information:  
 Attention: Southern Co.  
 Company Name: [ ]  
 Address: [ ]  
 Pace Quote: [ ]  
 Pace Project Manager: Nicole D'Oleio  
 Pace Profile #: 10840

Regulatory Agency  
 State / Location  
 Georgia

ITEM #	MATRIX	CODE	COLLECTED		MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G-GRAB C-COMP)	# OF CONTAINERS	PRESERVATIVES		Analyses Test Y/N	Requested Analysis (Inlined Y/N)		TEMP in C	Received on	Sealed	Cooler	Samples Intact (Y/N)
			START DATE	END DATE				Time	Time		App I / II (Gypsum only)	App III / IV Metals					
1	Drinking Water	DW			WG G	G	5	Unpreserved	H2SO4	X	X	X					
2	Waste Water	WW			WG G	G	5		HCl	X	X	X					
3	Product	P			WG G	G	5		HNO3	X	X	X					
4	Solid/Semi	SL			WG G	G	5		NaOH	X	X	X					
5	Oil	CL			WG G	G	5		Methanol	X	X	X					
6	Wipe	WP			WG G	G	5		Other	X	X	X					
7	Air	AR			WG G	G	5			X	X	X					
8	Other	OT			WG G	G	5			X	X	X					
9	Tissue	TS			WG G	G	5			X	X	X					
10																	
11																	
12																	

**ADDITIONAL COMMENTS**  
 Antions Suite 300.0 (Cl, F, Sulfate)  
 App III Metals: Boron 6020B, Ca 6010D;  
 App VII 6020B: Zn, Ag, Ni, V  
 App IV: Metals 6020B: Antimony (Sb), Arsenic (As), Barium (Ba), Beryllium (Be), Cadmium (Cd), Chromium (Cr), Cobalt (Co), Lead (Pb), Lithium (Li), Molybdenum (Mo), Selenium (Se), ThioUa: Mercury (Hg)

**RELINQUISHED BY / AFFILIATION**  
 [Signature] Arcadis  
 [Signature] Pace  
 [Signature] Pace

**DATE**  
 9/1/22  
 9/1/22  
 9/1/22

**TIME**  
 0800  
 1055

**ACCEPTED BY / AFFILIATION**  
 [Signature] Pace  
 [Signature] Pace

**DATE**  
 9/1/22  
 9/1/22

**TIME**  
 0900  
 0905

**DATE SIGNED:** 9/1/22

**SAMPLER NAME AND SIGNATURE**  
 PRINT NAME OF SAMPLER: JESSICA WARR  
 SIGNATURE OF SAMPLER: [Signature]

# Appendix B

## Field Sampling Report

**August 2022 Daily Calibration Log**

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

**Instrument Calibration**

**Date: 08/30/2022 Initial**

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 870001 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.01	4.01	4.00	4.01
pH	S.U.	7.00	7.00	6.99	6.99	7.00	7.00
pH	S.U.	10.00	10.00	9.95	9.95	10.00	10.00
ORP	mV	220.0	220.0	220.0	220.0	228.3	226.8

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.8	19.8	19.7	0.02	19.8
Turbidity	NTU	100	101	100	101	20.0	101
Turbidity	NTU	800	799	802	813	100	806
Turbidity	NTU	<0.10	0.08	0.02	0.02	801	0.1

**Date: 08/30/2022 Time: Midday**

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1409	1419	1409	1413	1409	1409
pH	S.U.	4.00	4.01	4.02	4.01	4.01	4.02
pH	S.U.	7.00	6.99	6.98	6.99	6.99	6.98
pH	S.U.	10.00	9.95	9.91	9.95	9.95	9.95
ORP	mV	220.0	220.0	220.0	220.0	220.0	220.2

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.0	19.8	19.7	0.02	--
Turbidity	NTU	100	98.2	100	98.8	20.0	--
Turbidity	NTU	800	793	804	796	100	--
Turbidity	NTU	<0.10	0.02	0.02	0.02	801	--

**Notes:**

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

\* Half day

**August 2022 Daily Calibration Log**

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

**Instrument Calibration**

**Date: 08/31/2022 Initial**

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.00	4.00	4.00	4.00
pH	S.U.	7.00	7.00	7.00	7.00	7.00	7.00
pH	S.U.	10.00	10.00	10.05	10.00	10.00	10.00
ORP	mV	220.0	220.0	220.0	220.0	220.0	232.0

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	21.0	19.6	20.5	0.02	19.9
Turbidity	NTU	100	101	101	102	20.0	109
Turbidity	NTU	800	813	800	806	100	804
Turbidity	NTU	<0.10	0.02	0.02	0.04	801	0.02

**Date: 08/31/2022 Time: Midday**

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 870001 (David Prouty)
DO	% saturation	100	NA*	100	100	100	100
Conductivity	us/cm	1409	NA*	1409	1413	1409	1409
pH	S.U.	4.00	NA*	4.01	4.01	4.02	4.01
pH	S.U.	7.00	NA*	6.98	6.99	6.98	6.99
pH	S.U.	10.00	NA*	9.95	9.95	9.91	9.97
ORP	mV	220.0	NA*	220.0	220.0	220.0	223.3

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	NA*	19.5	18.9	0.02	--
Turbidity	NTU	100	NA*	99.9	99.1	20.0	--
Turbidity	NTU	800	NA*	796	792	100	--
Turbidity	NTU	<0.10	NA*	0.02	0.02	801	--

**Notes:**

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

\* Half day



## August 2022 Daily Calibration Log

Project Plant Yates

Field Staff: Mark Chest/ Jessica Ware/ Khalil Carson/ Jake Swanson/ David Prouty

### Instrument Calibration

Date: 09/01/2022 Initial

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	100	100	100	100	100
Conductivity	us/cm	1413	1413	1409	1413	1409	1409
pH	S.U.	4.00	4.00	4.00	4.01	4.00	4.00
pH	S.U.	7.00	7.00	7.00	6.99	7.02	7.02
pH	S.U.	10.00	10.00	10.00	9.95	10.05	10.05
ORP	mV	220.0	220.0	220.0	220.0	220.0	233.9

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	20.4	20.3	20.7	0.02	19.8
Turbidity	NTU	100	101	100	101	20.0	103
Turbidity	NTU	800	803	801	803	100	802
Turbidity	NTU	<0.10	0.02	0.02	0.09	801	0.02

Date: 09/01/2022 Time: Midday

Parameter	Units	Standard	SmarTROLL SN 925534 (Mark Chest)	SmarTROLL SN 509263 (Jessica Ware)	SmarTROLL SN 509271 (Khalil Carson)	SmarTROLL SN 925153 (Jake Swanson)	SmarTROLL SN 518546 (David Prouty)
DO	% saturation	100	NA*	100	100	100	NA*
Conductivity	us/cm	1409	NA*	1409	1413	1409	NA*
pH	S.U.	4.00	NA*	4.01	4.01	4.01	NA*
pH	S.U.	7.00	NA*	6.99	6.99	6.99	NA*
pH	S.U.	10.00	NA*	10.00	9.95	9.95	NA*
ORP	mV	220.0	NA*	220.0	220.0	220.0	NA*

Parameter	Units	Standard	Geotech (Mark Chest)	Geotech (Jessica Ware)	Geotech (Khalil Carson)	Geotech (Jake Swanson)	Geotech (David Prouty)
Turbidity	NTU	20.0	NA*	20.3	19.8	0.02	NA*
Turbidity	NTU	100	NA*	101	97.3	20.0	NA*
Turbidity	NTU	800	NA*	806	797	100	NA*
Turbidity	NTU	<0.10	NA*	0.02	0.02	801	NA*

#### Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = Not Applicable

-- Calibration not performed

\* Half day

<b>Client:</b>		Georgia Power			
<b>Project Location:</b>		AP-1			
<b>Date:</b>		8/29/2022			
<b>Sampler:</b>		Jake Swanson			
<b>Equipment:</b>		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-44	8/29/2022	10:31:00	49.77	89.85	--
YGWC-45	8/29/2022	10:38:00	22.28	73.80	--
PZ-09S	8/29/2022	10:42:00	17.35	57.00	--
PZ-09I	8/29/2022	10:45:00	17.57	77.00	--
YGWC-46A	8/29/2022	10:55:00	38.48	79.22	--
PZ-53	8/29/2022	11:05:00	38.36	72.00	--
PZ-10I	8/29/2022	11:13:00	13.30	46.50	--
PZ-10S	8/29/2022	11:13:00	7.37	16.30	--

<b>Client:</b>		Georgia Power			
<b>Project Location:</b>		AP-1			
<b>Date:</b>		8/29/2022			
<b>Sampler:</b>		David Prouty			
<b>Equipment:</b>		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-52	8/29/2022	10:22:00	37.24	70.79	--
YGWA-47	8/29/2022	10:23:00	28.16	59.19	--

# Groundwater Sampling Form



Updated : 8/31/2022 11:55:51 AM -04:00

<b>Project Number</b>	30143608	<b>Well ID</b>	YGWC-44	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	78.8 degrees F and Clear. The wind is blowing N at 10.3 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	79.95	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	49.78	<b>Total Depth (ft-bmp)</b>	89.85	<b>Water Column(ft)</b>	40.07	<b>Gallons in Well</b>	6.51
<b>MP Elevation</b>	758.35	<b>Pump Intake (ft-bmp)</b>	83	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab
<b>Sample Time</b>	11:25	<b>Well Volumes Purged</b>	0.08	<b>Sample ID</b>	YGWC-44	<b>Sampled by</b>	David Prouty
<b>Purge Start</b>	11:00	<b>Gallons Purged</b>	0.53	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	11:49						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:00:00	00:00	100	51.78	5.68	453.97	0.10	0.63	19.9	-49.02
11:05:00	05:00	100	51.85	5.68	455.24	0.02	0.74	20.5	-25.28
11:10:00	10:00	100	51.85	5.73	454.50	0.02	0.80	21.0	-6.30
11:15:00	15:00	100	51.85	5.75	455.55	1.14	0.85	21.7	7.51
11:20:00	20:00	100	51.86	5.77	455.80	0.31	0.95	22.1	19.38

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

**Comments:** 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 : 8/31/2022 1:26:36 PM  
-04:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-52	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	77.0 degrees F and Clear. The wind is blowing N at 9.2 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	60.79	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	36.62	<b>Total Depth (ft-bmp)</b>	70.79	<b>Water Column(ft)</b>	34.17	<b>Gallons in Well</b>	5.55
<b>MP Elevation</b>	755.86	<b>Pump Intake (ft-bmp)</b>	65	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	11:20	<b>Well Volumes Purged</b>	0.23	<b>Sample ID</b>	YGWC-52	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	10:50	<b>Gallons Purged</b>	1.25	<b>Replicate/ Code No.</b>	AP-1-EB-1 and AP-1-FB-1	<b>Color</b>	Clear
<b>Purge End</b>	11:05						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:50:00	00:00	150	36.62	5.89	275.07	3.12	3.84	30.0	171.86
10:55:00	05:00	200	37.86	5.46	280.46	2.85	2.53	24.0	196.88
11:00:00	10:00	200	37.87	5.54	280.24	2.44	2.36	23.4	197.02
11:05:00	15:00	200	37.85	5.61	283.20	2.15	2.22	25.6	196.10
11:10:00	20:00	200	37.87	5.58	284.30	1.50	2.14	29.5	196.57
11:15:00	25:00	200	37.83	5.58	273.41	2.04	2.31	25.8	198.82

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,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 : 8/31/2022 4:19:38 PM  
-04:00

<b>Project Number</b>	30143608	<b>Well ID</b>	YGWC-45	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	86.4 degrees F and Clear. The wind is blowing NW at 9.2 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	63.8	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	22.28	<b>Total Depth (ft-bmp)</b>	73.8	<b>Water Column(ft)</b>	51.52	<b>Gallons in Well</b>	8.37
<b>MP Elevation</b>	719.36	<b>Pump Intake (ft-bmp)</b>	69	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Grab
<b>Sample Time</b>	15:50	<b>Well Volumes Purged</b>	0.09	<b>Sample ID</b>	YGWC-45	<b>Sampled by</b>	David Prouty
<b>Purge Start</b>	15:17	<b>Gallons Purged</b>	0.79	<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)
15:17:00	00:00	100	24.8	6.37	483.54	1.97	0.57	23.2	-4.36
15:22:00	05:00	100	24.63	6.33	480.28	0.69	0.40	23.2	-6.83
15:27:00	10:00	100	24.62	6.36	478.58	0.02	0.33	23.0	-12.49
15:32:00	15:00	100	24.62	6.44	478.70	0.18	0.31	22.9	-19.71
15:37:00	20:00	100	24.6	6.50	476.89	0.02	0.29	23.0	-26.53
15:42:00	25:00	100	24.59	6.53	472.48	0.02	0.28	22.9	-31.83
15:47:00	30:00	100	24.58	6.56	466.57	0.31	0.27	22.3	-34.37

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

**Comments:** Poor tubing connection resulted in air bubbles and high DO. Restarted purge.

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

Updated : 8/31/2022 7:12:51 PM  
-04:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWC-46A	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	69.22	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	38.62	<b>Total Depth (ft-bmp)</b>	79.22	<b>Water Column(ft)</b>	40.6	<b>Gallons in Well</b>	6.6
<b>MP Elevation</b>	733.04	<b>Pump Intake (ft-bmp)</b>	74	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	14:50	<b>Well Volumes Purged</b>	0.51	<b>Sample ID</b>	YGWC-46A	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	13:19	<b>Gallons Purged</b>	3.37	<b>Replicate/ Code No.</b>	AP-1-DUP-1	<b>Color</b>	Clear
<b>Purge End</b>	14:44						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:19:00	00:00	150	38.62	7.39	756.68	1.49	6.83	35.0	195.55
13:24:00	05:00	150	39.83	6.99	958.30	1.28	0.88	25.2	-96.70
13:29:00	10:00	150	40.31	7.17	957.86	0.81	0.26	23.9	-114.12
13:34:00	15:00	150	40.53	7.21	1034.85	0.70	0.19	23.5	-121.49
13:39:00	20:00	150	40.81	7.19	1012.94	0.32	0.17	23.4	-115.41
13:44:00	25:00	150	41	7.12	968.28	0.55	0.17	23.2	-103.62
13:49:00	30:00	150	41.21	7.06	914.42	0.46	0.17	23.2	-92.54
13:54:00	35:00	150	41.23	7.00	890.84	1.78	0.18	23.8	-83.68
13:59:00	40:00	150	41.23	6.96	862.31	1.03	0.16	23.8	-76.80
14:04:00	45:00	150	41.24	6.89	814.72	0.43	0.21	23.8	-68.26
14:09:00	50:00	150	41.24	6.83	799.69	0.89	0.25	23.9	-60.20
14:14:00	55:00	150	41.23	6.79	839.40	1.05	0.25	23.9	-55.20
14:19:00	00:00	150	41.26	6.77	792.18	1.11	0.26	23.9	-49.76
14:24:00	05:00	150	41.27	6.77	874.50	0.71	0.26	23.7	-46.26
14:29:00	10:00	150	41.29	6.78	842.04	0.65	0.28	24.0	-44.99
14:34:00	15:00	150	41.34	6.82	812.21	1.70	0.26	23.8	-44.77
14:39:00	20:00	150	41.34	6.84	797.53	0.52	0.25	24.1	-44.24
14:44:00	25:00	150	41.34	6.87	782.72	0.93	0.24	24.3	-45.25

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

# Groundwater Gauging Well Inspection Report



<b>Project Location:</b> AP-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWC-44					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 10:31:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input 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	<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,	<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	<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	<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:					
Cut vegetation.					
8 Date by when corrective actions are needed:					



# Groundwater Gauging Well Inspection Report



<b>Project Location:</b> AP-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWC-45					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 10:38:00					
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	<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,	<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	<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	<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-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> PZ-09S					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 10:42:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious	<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,	<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	<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	<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:					
Cut vegetation					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report



<b>Project Location:</b> AP-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> PZ-09I					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 10:45:00					
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	<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,	<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	<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	<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-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWC-46A					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 10:55:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input 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	<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,	<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	<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	<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-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> PZ-53					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 11:05:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input 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	<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,	<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	<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	<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:					
Cut vegetation					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report



<b>Project Location:</b> AP-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> PZ-101					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 11:13:00					
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	<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,	<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	<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	<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:					
Cut vegetation and ants					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report



<b>Project Location:</b> AP-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> PZ-10S					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 11:13:00					
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	<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,	<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	<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	<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:					
Cut vegetation and ants					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report



<b>Project Location:</b> AP-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWC-52					
<b>Person Gauging:</b> David Prouty					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 10:22:00					
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	<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,	<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	<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	<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:					
Cut vegetation					
8 Date by when corrective actions are needed:					



# Upgradient Wells

August 2022

# Groundwater Sampling Form

Updated : 8/31/2022 7:46:53 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-4I	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	80 °F, Sunny, winds at 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>	23.95	<b>Total Depth (ft-bmp)</b>	48.81	<b>Water Column(ft)</b>	24.86	<b>Gallons in Well</b>	4.04
<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>	15:37	<b>Well Volumes Purged</b>	0.39	<b>Sample ID</b>	YGWA-4I	<b>Sampled by</b>	Jessica Ware
<b>Purge Start</b>	14:54	<b>Gallons Purged</b>	1.59	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	16:09						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:54:00	00:00	150	23.95	7.44	130.83	1.30	7.32	22.7	171.68
14:59:00	05:00	150	24.59	5.76	135.49	0.75	6.11	21.8	192.79
15:04:00	10:00	150	24.56	5.61	146.32	0.40	4.64	21.7	192.23
15:09:00	15:00	150	24.58	5.60	148.00	0.18	3.90	21.0	194.40
15:14:00	20:00	150	24.61	5.58	145.41	0.18	4.00	20.7	205.39
15:19:00	25:00	150	24.61	5.59	146.24	0.10	5.83	20.4	210.12
15:24:00	30:00	150	24.59	5.54	146.21	0.39	2.02	19.6	202.49
15:29:00	35:00	150	24.63	5.50	146.96	0.27	1.95	19.7	205.75
15:34:00	40:00	150	24.64	5.50	146.94	0.22	1.95	19.6	207.02

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

**Comments:** Sampled

**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 : 8/30/2022 11:20:20 AM -04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-5I	<b>Date</b>	08/30/2022
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	72.9 degrees F and Fog/Mist. The wind is blowing undefined at 0.0 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>Static Water Level (ft-bmp)</b>	20.65	<b>Total Depth (ft-bmp)</b>	58.94	<b>Water Column(ft)</b>	38.29
<b>MP Elevation</b>	784.54	<b>Pump Intake (ft-bmp)</b>	53	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	10:52	<b>Well Volumes Purged</b>	0.26	<b>Sample ID</b>	YGWA-5I
<b>Purge Start</b>	10:19	<b>Gallons Purged</b>	1.60	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	10:49			<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)
10:19:00	00:00	200	20.65	5.66	85.76		6.54	18.0	201.34
10:19:00	00:20	200	20.65	5.36	82.81		6.50	17.4	210.79
10:24:00	05:20	200	21.65	4.90	82.41	0.55	6.13	17.1	232.62
10:29:00	10:20	200	21.66	4.75	81.15	0.92	6.12	17.1	243.71
10:34:00	15:20	200	21.65	4.82	82.39	1.03	6.19	17.2	240.12
10:39:00	20:20	200	21.65	5.05	82.15	1.72	6.16	17.3	233.32
10:44:00	25:20	200	21.67	5.01	82.90	0.43	6.17	17.4	238.95
10:49:00	30:20	200	21.67	5.00	82.09	0.41	6.17	17.4	240.28

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

**Comments:** None

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

Updated : 8/30/2022 3:01:48 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-5D	<b>Date</b>	08/30/2022		
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	74.5 degrees F and Cloudy. The wind is blowing undefined at 0.0 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>	21.96	<b>Total Depth (ft-bmp)</b>	129.13	<b>Water Column(ft)</b>	107.17	<b>Gallons in Well</b>	17.41
<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>	12:05	<b>Well Volumes Purged</b>	0.12	<b>Sample ID</b>	YGWA-5D	<b>Sampled by</b>	Mark Chest
<b>Purge Start</b>	11:25	<b>Gallons Purged</b>	2.14	<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)
11:25:00	00:00	200	21.96	6.77	198.80		4.08	20.0	184.74
11:26:00	00:17	200	21.96	6.80	198.26		2.67	19.2	34.77
11:31:00	05:17	200	22.99	7.46	223.19	0.02	0.14	17.9	-206.55
11:36:00	10:17	200	22.95	7.40	211.77	0.03	0.18	18.0	-225.81
11:41:00	15:17	200	22.95	7.36	208.20	0.02	0.20	18.3	-227.48
11:41:00	15:28	200	22.95	7.41	208.28	0.02	0.20	18.3	-229.94
11:46:00	20:28	200	22.95	7.40	206.51	0.02	0.21	18.0	-223.33
11:51:00	25:28	200	22.95	7.40	206.23	0.02	0.17	18.2	-220.02
11:56:00	30:28	200	22.95	7.40	205.72	0.02	0.19	18.2	-214.34
12:01:00	35:28	200	22.95	7.40	205.32	0.02	0.18	18.3	-211.56
12:06:00	40:28	200	22.95	7.40	205.22	0.02	0.19	18.3	-210.48

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form

Updated : 9/1/2022 10:02:42 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-17S	<b>Date</b>	08/30/2022		
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	32 °C, Overcast, winds at 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>	13.33	<b>Total Depth (ft-bmp)</b>	39.85	<b>Water Column(ft)</b>	26.52	<b>Gallons in Well</b>	4.31
<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>	15:40	<b>Well Volumes Purged</b>	0.31	<b>Sample ID</b>	YGWA-17S	<b>Sampled by</b>	Jessica Ware
<b>Purge Start</b>	15:11	<b>Gallons Purged</b>	1.32	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	16:01						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:11:00	00:00	200	13.33	5.18	92.71		2.71	22.6	198.73
15:16:00	05:00	200	13.58	4.89	91.82	1.08	1.61	21.5	209.01
15:21:00	10:00	200	13.59	4.81	91.68	0.91	1.50	21.0	214.69
15:26:00	15:00	200	13.62	4.73	91.72	0.99	1.53	20.9	222.92
15:31:00	20:00	200	13.61	4.70	91.70	1.51	1.49	20.6	225.77
15:36:00	25:00	200	13.62	4.68	91.28	1.47	1.48	20.5	228.01

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

**Comments:** Sampled

**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 : 9/1/2022 10:02:47 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-18S	<b>Date</b>	08/30/2022
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	74 °F, Overcast, winds at 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>Static Water Level (ft-bmp)</b>	21.48	<b>Total Depth (ft-bmp)</b>	39.97	<b>Water Column(ft)</b>	18.49
<b>MP Elevation</b>	790.57	<b>Pump Intake (ft-bmp)</b>	35	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	10:10	<b>Well Volumes Purged</b>	0.40	<b>Sample ID</b>	YGWA-18S
<b>Purge Start</b>	09:37	<b>Gallons Purged</b>	1.19	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	10:39			<b>Color</b>	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (in)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:37:00	00:00	150	21.92	6.54	65.89	0.81	8.20	22.5	152.66
09:42:00	05:00	150		5.35	51.04		2.93	19.9	196.80
09:47:00	10:00	150	21.9	5.27	50.58	0.77	2.35	19.7	205.05
09:52:00	15:00	150	21.93	5.22	49.98	0.24	2.38	19.1	210.39
09:57:00	20:00	150	21.98	5.18	49.93	0.29	1.98	19.0	215.27
10:02:00	25:00	150	21.9	5.19	49.89	0.35	1.89	19.7	215.28
10:07:00	30:00	150	21.94	5.18	49.48	0.20	1.92	19.0	217.25

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

**Comments:** Sampled

**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 : 9/1/2022 10:02:38 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-18I	<b>Date</b>	08/30/2022		
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	76 °F, Overcast, winds at mph.			
<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>	24.46	<b>Total Depth (ft-bmp)</b>	79.97	<b>Water Column(ft)</b>	55.51	<b>Gallons in Well</b>	9.02
<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>	13:35	<b>Well Volumes Purged</b>	0.18	<b>Sample ID</b>	YGWA-18I	<b>Sampled by</b>	Jessica Ware
<b>Purge Start</b>	10:50	<b>Gallons Purged</b>	1.59	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	14:04						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (in)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:50:00	00:00	150	24.46	6.14	106.03		8.41	22.5	152.49
10:55:00	05:00	150	24.53	6.25	102.96	1.12	4.10	21.7	170.86
11:00:00	10:00	150	24.52	5.99	103.96	0.67	3.27	21.1	174.65
11:05:00	15:00	150	24.55	5.84	105.27	0.02	3.35	21.0	173.55
11:10:00	20:00	150	24.54	5.82	105.80	0.02	3.61	20.7	176.59
11:15:00	25:00	150	24.56	5.81	105.70	0.02	3.74	20.6	179.03
11:20:00	30:00	150	24.56	5.82	105.91		3.83	20.4	181.31
11:25:00	35:00	150	24.56	5.87	106.36		3.94	21.0	178.86
11:30:00	40:00	150	24.56	5.89	109.49		3.93	21.5	176.97

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

**Comments:** Compressor broke at 1124. Last reading at 11:20 was stable (dtw 24.56, turb 0.02). Got new compressor from Field and sampled at 13:35. Ok-ed by Mark Chest 8/30.

**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 : 8/31/2022 1:51:50 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-20S	<b>Date</b>	08/31/2022
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	80 °F, , winds at 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>Static Water Level (ft-bmp)</b>	11.57	<b>Total Depth (ft-bmp)</b>	29.52	<b>Water Column(ft)</b>	17.95
<b>MP Elevation</b>	767.12	<b>Pump Intake (ft-bmp)</b>	24.5	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	12:57	<b>Well Volumes Purged</b>	0.34	<b>Sample ID</b>	YGWA-20S
<b>Purge Start</b>	12:23	<b>Gallons Purged</b>	0.99	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	13:35				
<b>Well Casing Material</b>	PVC				
<b>Gallons in Well</b>	2.92				
<b>Sample Method</b>	Low-Flow				
<b>Sampled by</b>	Jessica Ware				
<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)
12:23:00	00:00	200	11.57	6.60	54.41	1.83	8.33	23.1	121.75
12:28:00	05:00	150	12.04	5.59	54.42	9.46	8.08	19.9	199.47
12:33:00	10:00	100	11.91	5.51	54.40	8.03	7.92	21.0	210.37
12:38:00	15:00	100	11.82	5.45	54.47	7.33	7.85	21.2	216.56
12:43:00	20:00	100	11.8	5.37	54.27	4.86	7.77	21.2	224.01
12:48:00	25:00	100	11.78	5.38	54.31	2.98	7.66	21.6	223.86
12:53:00	30:00	100	11.73	5.38	54.63	2.35	7.56	22.7	225.51

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

**Comments:** Sampled

**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 : 8/31/2022 2:06:34 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-211	<b>Date</b>	08/30/2022		
<b>Project Location</b>	AMA AP-3, A, B and B'		<b>Weather(°F)</b>	84.2 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
<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>	32.12	<b>Total Depth (ft-bmp)</b>	79.9	<b>Water Column(ft)</b>	47.78	<b>Gallons in Well</b>	7.76
<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>	14:30	<b>Well Volumes Purged</b>	0.31	<b>Sample ID</b>	YGWA-211	<b>Sampled by</b>	Mark Chest
<b>Purge Start</b>	13:52	<b>Gallons Purged</b>	2.38	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	14:27						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:52:00	00:00	300	32.12	7.45	175.48		7.87	32.5	157.78
13:57:00	05:00	250	35.55	7.08	197.65	2.22	0.28	21.0	-101.65
14:02:00	10:00	250	36	6.90	177.38	0.36	0.15	24.2	-98.85
14:07:00	15:00	250	36.12	6.82	170.35	0.02	0.16	22.1	-92.98
14:12:00	20:00	250	36.19	6.72	166.61	0.03	0.13	22.2	-92.82
14:17:00	25:00	250	36.27	6.64	161.22	0.02	0.12	22.3	-92.13
14:22:00	30:00	250	36.34	6.59	157.87	0.02	0.13	22.8	-91.59
14:27:00	35:00	250	36.41	6.58	155.91	0.00	0.13	23.4	-91.50

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form

Updated : 8/31/2022 2:06:35 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-39	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AMA R6 CCR Landfill		<b>Weather(°F)</b>	84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 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>	17.6	<b>Total Depth (ft-bmp)</b>	68.59	<b>Water Column(ft)</b>	50.99	<b>Gallons in Well</b>	8.29
<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>	13:50	<b>Well Volumes Purged</b>	0.25	<b>Sample ID</b>	YGWA-39	<b>Sampled by</b>	Mark Chest
<b>Purge Start</b>	13:06	<b>Gallons Purged</b>	2.11	<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)
13:06:00	00:00	200	17.6	7.01	352.92		2.46	22.9	24.34
13:11:00	05:00	200	18.25	5.84	383.57	1.89	0.09	19.6	85.04
13:16:00	10:00	200	18.34	5.77	376.89	0.65	0.05	19.5	94.91
13:21:00	15:00	200	18.37	5.67	371.48	0.43	0.04	19.4	106.56
13:26:00	20:00	200	18.39	5.54	366.27	0.02	0.04	19.4	119.01
13:31:00	25:00	200	18.44	5.44	361.38	0.02	0.04	19.4	127.52
13:36:00	30:00	200	18.39	5.37	363.20	0.36	0.04	19.2	133.20
13:41:00	35:00	200	18.4	5.33	359.98	0.02	0.05	19.3	137.26
13:46:00	40:00	200	18.41	5.30	364.75	1.09	0.04	19.3	139.19

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form

Updated : 9/2/2022 10:29:15 AM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-40	<b>Date</b>	08/31/2022
<b>Project Location</b>	AMA R6 CCR Landfill		<b>Weather(°F)</b>	84.6 degrees F and Clear. The wind is blowing N/NW at 6.9 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>	23.55	<b>Total Depth (ft-bmp)</b>	48.23	<b>Water Column(ft)</b>	24.68
		<b>Gallons in Well</b>			4.01
<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>	16:40	<b>Well Volumes Purged</b>	0.40	<b>Sample ID</b>	YGWA-40
		<b>Sampled by</b>			Mark Chest
<b>Purge Start</b>	16:06	<b>Gallons Purged</b>	1.59	<b>Replicate/ Code No.</b>	
		<b>Color</b>			Clear
<b>Purge End</b>	16:36				

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)
16:06:00	00:00	200		5.03	105.09		0.11	17.9	197.89
16:11:00	05:00	200	25.8	4.91	100.87	0.02	0.10	18.0	234.91
16:16:00	10:00	200	25.85	4.79	98.98	0.05	0.47	18.0	259.26
16:21:00	15:00	200	25.85	4.66	100.66	0.02	0.39	17.9	280.04
16:26:00	20:00	200	25.85	4.59	98.38	0.02	0.29	17.9	293.98
16:31:00	25:00	200	25.85	4.57	94.16	0.03	0.26	17.9	302.46
16:36:00	30:00	200	25.85	4.53	94.04	0.05	0.22	17.8	311.98

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

**Comments:** None

### Well Casing Volume Conversion

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

### Well Information

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

# Groundwater Sampling Form



Updated : 8/31/2022 10:19:04 AM -04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-11	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	71.1 degrees F and Cloudy. The wind is blowing N at 5.8 mph.				
<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>	37.23	<b>Total Depth (ft-bmp)</b>	53.6	<b>Water Column(ft)</b>	16.37	<b>Gallons in Well</b>	2.66
<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>	09:10	<b>Well Volumes Purged</b>	0.48	<b>Sample ID</b>	YGWA-11	<b>Sampled by</b>	Khalil Carson
<b>Purge Start</b>	08:22	<b>Gallons Purged</b>	1.27	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	10:17						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:22:00	00:00	150	37.23	5.68	89.49		6.59	22.6	186.55
08:27:00	05:00	150	38.18	5.65	86.30	0.53	5.29	20.0	141.15
08:28:00	05:29	100	37.23	5.61	88.39	0.53	5.02	19.9	139.26
08:33:00	10:29	100	38.22	5.74	88.86	0.94	4.68	20.5	112.33
08:38:00	15:29	100	38.27	5.66	84.27	0.61	4.82	20.7	110.40
08:43:00	20:29	100	38.32	5.49	78.81	0.11	4.94	20.7	121.58
08:48:00	25:29	100	38.36	5.63	77.52	0.27	5.14	20.7	118.66
08:53:00	30:29	100	38.4	5.56	76.06	0.33	5.28	20.6	125.51
08:58:00	35:29	100	38.45	5.70	75.25	0.41	5.38	20.7	120.61
09:03:00	40:29	100	38.49	5.67	74.70	0.27	5.34	20.7	124.88
09:08:00	45:29	100	38.49	5.64	74.31	0.69	5.46	20.8	129.78

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

**Comments:** -

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

Updated : 9/8/2022 4:54:30 PM - 04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-1D	<b>Date</b>	08/30/2022
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	75.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.		
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	78.05	<b>Casing Diameter (in)</b>	2
<b>Static Water Level (ft-bmp)</b>	49.39	<b>Total Depth (ft-bmp)</b>	128.85	<b>Water Column(ft)</b>	79.46
<b>MP Elevation</b>	837.25	<b>Pump Intake (ft-bmp)</b>	108	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	13:50	<b>Well Volumes Purged</b>	0.12	<b>Sample ID</b>	YGWA-1D
<b>Purge Start</b>	13:15	<b>Gallons Purged</b>	1.59	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	14:30			<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)
13:15:00	00:00	200	145.6365	7.19	165.81		3.53	37.3	101.43
13:15:00	00:29	200	49.43	7.19	164.03		3.51	37.5	101.95
13:20:00	05:29	200	49.47	7.25	157.05	1.75	2.20	31.1	35.74
13:24:00	09:31	200	49.45	7.10	157.61	1.66	1.52	27.9	31.13
13:29:00	14:31	200	49.45	6.88	159.90	0.02	1.11	26.8	3.74
13:32:00	16:49	200	49.45	7.04	162.63		1.09	25.6	-16.24
13:37:00	21:49	200	49.45	7.11	163.02	1.71	0.98	25.2	-43.61
13:42:00	26:49	200	49.45	7.18	163.35	1.04	0.84	24.6	-59.45
13:47:00	31:49	200	49.45	7.20	161.94	0.66	0.78	24.4	-67.58

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

**Comments:** -

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

Updated : 8/30/2022 7:27:49 PM -

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-2I	<b>Date</b>	08/30/2022
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	Cloudy temp 77		
<b>Measuring Pt. Description</b>	Top of Outer Casing	<b>Screen Setting (ft-bmp)</b>	53.45	<b>Casing Diameter (in)</b>	2
<b>Static Water Level (ft-bmp)</b>	44.5	<b>Total Depth (ft-bmp)</b>	63.75	<b>Water Column(ft)</b>	19.25
<b>MP Elevation</b>	866.25	<b>Pump Intake (ft-bmp)</b>	60	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	10:00	<b>Well Volumes Purged</b>	0.30	<b>Sample ID</b>	YGWA-2I
<b>Purge Start</b>	09:24	<b>Gallons Purged</b>	0.92	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	11:43			<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)
9:24	00:00	200	44.5	7.10	173.92		8.48	23.4	178.94
9:29	05:00	200	45.65	6.83	180.62	2.33	4.00	20.9	-40.08
9:34	10:00	150	46.00	6.94	189.14	1.05	1.60	20.5	-72.2
9:39	15:00	50	46.38	7.01	189.31	0.41	1.13	21.3	-82.9
9:44	20:00	50	46.63	7.04	188.53	0.77	1.11	21.9	-89.1
9:49	25:00:00	50	46.71	7.05	186.33	1.76	1.04	22.4	-90.7
9:54	30:00:00	50	46.81	7.04	184.05	0.53	1.04	22.7	-87.2

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

**Comments:** -

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

Updated : 8/31/2022 1:51:49 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-3I	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	78 °F, Sunny, winds at mph.				
<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>	53.22	<b>Total Depth (ft-bmp)</b>	59.05	<b>Water Column(ft)</b>	5.83	<b>Gallons in Well</b>	0.95
<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>	10:54	<b>Well Volumes Purged</b>	2.05	<b>Sample ID</b>	YGWA-3I	<b>Sampled by</b>	Jessica Ware
<b>Purge Start</b>	10:02	<b>Gallons Purged</b>	1.95	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	11:25						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:02:00	00:00	200	53.22	7.57	210.69	0.30	8.69	19.1	125.05
10:07:00	05:00	200	53.62	7.40	274.64	0.48	4.45	19.6	130.45
10:12:00	10:00	200	53.7	7.36	291.19	1.91	1.99	18.8	71.97
10:17:00	15:00	125	53.52	7.41	291.02	1.24	2.03	21.7	29.04
10:22:00	20:00	125	53.48	7.43	285.82	0.53	1.94	22.0	6.67
10:27:00	25:00	125	53.46	7.45	272.37	1.02	1.67	21.8	-19.80
10:32:00	30:00	125	53.44	7.46	258.51	0.67	1.44	22.1	-34.15
10:37:00	35:00	125	53.45	7.47	245.50	0.48	1.20	21.8	-44.37
10:42:00	40:00	125	53.46	7.47	235.31	0.27	1.05	21.8	-51.67
10:47:00	45:00	125	53.46	7.48	230.69	0.53	1.03	21.8	-54.62
10:52:00	50:00	125	53.47	7.49	228.11	0.40	1.08	21.9	-55.58

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

**Comments:** Sampled

**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 : 9/1/2022 10:02:45 PM  
-04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-3D	<b>Date</b>	08/31/2022
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	32 °F, , winds at mph.		
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	83.88	<b>Casing Diameter (in)</b>	2
<b>Static Water Level (ft-bmp)</b>	30.3	<b>Total Depth (ft-bmp)</b>	134.18	<b>Water Column(ft)</b>	103.88
<b>MP Elevation</b>	796.78	<b>Pump Intake (ft-bmp)</b>	113	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	09:30	<b>Well Volumes Purged</b>	0.07	<b>Sample ID</b>	YGWA-3D
<b>Purge Start</b>	08:57	<b>Gallons Purged</b>	1.19	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	10:01			<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)
08:57:00	00:00	150	30.3	7.68	227.11		8.62	22.6	193.29
09:02:00	05:00	150	30.33	6.91	222.28	0.69	2.37	20.4	10.36
09:07:00	10:00	150	30.34	7.16	223.33	0.83	1.07	20.0	-40.45
09:12:00	15:00	150	30.32	7.45	222.32	0.60	0.70	19.5	-59.28
09:17:00	20:00	150	30.35	7.57	222.71	0.28	0.63	19.2	-73.91
09:22:00	25:00	150	30.36	7.62	222.83	0.02	0.62	19.4	-89.84
09:27:00	30:00	150	30.33	7.65	222.81	0.13	0.54	19.5	-102.82

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

**Comments:** Sampled

### 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 : 9/1/2022 3:43:23 PM - 04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-14S	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	83.7 degrees F and Clear. The wind is blowing N at 8.1 mph.				
<b>Measuring Pt. Description</b>	Top of Inner Casing	<b>Screen Setting (ft-bmp)</b>	24.66	<b>Casing Diameter (in)</b>	2	<b>Well Casing Material</b>	PVC
<b>Static Water Level (ft-bmp)</b>	20.24	<b>Total Depth (ft-bmp)</b>	34.96	<b>Water Column(ft)</b>	14.72	<b>Gallons in Well</b>	2.39
<b>MP Elevation</b>	748.76	<b>Pump Intake (ft-bmp)</b>	30	<b>Purge Method</b>	Low-Flow	<b>Sample Method</b>	Low-Flow
<b>Sample Time</b>	14:15	<b>Well Volumes Purged</b>	1.03	<b>Sample ID</b>	YGWA-14S	<b>Sampled by</b>	Khalil Carson
<b>Purge Start</b>	13:10	<b>Gallons Purged</b>	2.47	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	15:07						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:10:00	00:00	150	20.24	5.15	69.74		7.46	27.3	185.16
13:15:00	05:00	150	20.34	4.84	61.05	0.02	6.85	27.9	213.44
13:20:00	09:46	150	20.34	4.87	66.68	0.02	6.14	27.6	224.17
13:25:00	14:46	150	20.34	4.83	65.63	0.08	5.95	27.2	234.74
13:30:00	19:46	150	20.34	4.76	65.77	0.02	5.93	27.0	249.59
13:35:00	24:46	150	20.34	4.88	54.89	0.02	5.94	26.9	246.66
13:40:00	29:46	150	20.34	4.96	61.81	0.02	5.88	26.9	246.23
13:45:00	34:46	150	20.34	5.01	64.18	0.20	5.77	27.2	248.56
13:50:00	39:46	150	20.34	4.67	63.07	0.69	5.72	27.2	267.44
13:55:00	44:46	150	20.34	4.88	54.79	1.89	5.73	27.2	264.42
13:58:00	47:24	150	20.34	4.94	64.26	1.89	5.86	26.8	299.77
14:03:00	52:24	150	20.34	5.06	57.06	0.02	5.74	27.2	273.52
14:08:00	57:24	150	20.34	5.12	55.34	0.18	5.79	27.1	269.07
14:13:00	02:24	150	20.34	5.15	57.24	0.24	5.75	27.0	268.37

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

**Comments:** -

**Well Casing Volume Conversion**

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

**Well Information**

# Groundwater Sampling Form

Updated : 9/1/2022 3:43:22 PM - 04:00

<b>Project Number</b>	30053438	<b>Well ID</b>	YGWA-30I	<b>Date</b>	08/31/2022
<b>Project Location</b>	AP-2	<b>Weather(°F)</b>	Partly cloudy 81		
<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>	43.86	<b>Total Depth (ft-bmp)</b>	59.48	<b>Water Column(ft)</b>	15.62
<b>MP Elevation</b>	762.58	<b>Pump Intake (ft-bmp)</b>	54.5	<b>Purge Method</b>	Low-Flow
<b>Sample Time</b>	11:30	<b>Well Volumes Purged</b>	0.67	<b>Sample ID</b>	YGWA-30I
<b>Purge Start</b>	10:44	<b>Gallons Purged</b>	1.70	<b>Replicate/ Code No.</b>	
<b>Purge End</b>	12:00			<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)
10:44:00	00:00	150	44.36	6.64	58.07		8.59	24.5	133.57
10:49:00	05:00	150	44.36	6.63	59.21	1.32	8.48	25.9	121.26
10:55:00	10:49	150	43.9	6.71	58.93	0.71	8.27	27.4	152.70
10:57:00	12:53	150	43.9	6.60	55.09	1.12	8.58	27.2	161.79
11:02:00	17:53	150	43.9	6.13	53.46	1.31	7.97	26.4	148.39
11:07:00	22:53	150	43.9	5.58	54.11	0.81	7.48	25.8	178.08
11:12:00	27:53	150	43.9	5.74	54.08	0.85	7.38	25.2	175.12
11:17:00	32:53	150	43.9	5.78	54.88	0.02	7.25	25.1	178.57
11:22:00	37:53	150	43.9	5.84	54.83	0.14	7.14	25.2	180.65
11:27:00	42:53	150	43.9	5.87	54.57	0.41	7.07	25.4	182.89

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	125 mL Plastic	1	HNO3
TDS	250 mL Plastic	1	None
C,FL,SO4	125 mL Plastic	1	None

**Comments:** —

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

Updated : 8/30/2022 7:53:59 PM  
-04:00

<b>Project Number</b>	30052922	<b>Well ID</b>	GWA-2	<b>Date</b>	08/30/2022		
<b>Project Location</b>	Gypsum Landfill		<b>Weather(°F)</b>	72.0 degrees F and Fog. The wind is blowing E/SE at 4.7 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>	36.28	<b>Total Depth (ft-bmp)</b>	52.13	<b>Water Column(ft)</b>	15.85	<b>Gallons in Well</b>	2.58
<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>	10:05	<b>Well Volumes Purged</b>	0.20	<b>Sample ID</b>	GWA-2	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	09:34	<b>Gallons Purged</b>	0.53	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	09:54						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
09:34:00	00:00	100	36.28	5.79	189.14	0.77	1.60	20.5	-72.17
09:39:00	05:00	100	36.81	5.49	189.31	0.22	1.13	21.3	-82.91
09:44:00	10:00	100	36.9	5.35	188.53	0.31	1.11	21.0	-89.15
09:49:00	15:00	100	36.96	5.35	186.33	0.36	1.04	20.8	-90.65
09:54:00	20:00	100	37.03	5.39	184.04	0.43	1.04	20.8	-87.16

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

**Comments:** Upgradient well

**Well Casing Volume Conversion**

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

**Well Information**

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

# Groundwater Sampling Form

Updated : 8/31/2022 1:26:36 PM  
-04:00

<b>Project Number</b>	30052922	<b>Well ID</b>	YGWA-47	<b>Date</b>	08/31/2022		
<b>Project Location</b>	AP-1	<b>Weather(°F)</b>	73 sunny				
<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>	34.18	<b>Total Depth (ft-bmp)</b>	59.19	<b>Water Column(ft)</b>	25.01	<b>Gallons in Well</b>	4.06
<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>	09:15	<b>Well Volumes Purged</b>	0.20	<b>Sample ID</b>	YGWA-47	<b>Sampled by</b>	Jake Swanson
<b>Purge Start</b>	08:47	<b>Gallons Purged</b>	0.79	<b>Replicate/ Code No.</b>		<b>Color</b>	Clear
<b>Purge End</b>	09:07						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:47:00	00:00	150	34.18	6.58	151.49	2.88	7.95	22.6	181.33
08:52:00	05:00	150	34.74	5.33	132.46	3.07	3.82	19.5	191.39
08:57:00	10:00	150	34.75	5.26	129.13	0.96	3.62	19.2	193.14
09:02:00	15:00	150	34.77	5.28	129.79	0.89	3.53	19.0	188.90
09:07:00	20:00	150	34.79	5.32	135.11	0.02	3.44	19.1	185.05

Constituent Sampled	Container	Number	Preservative
RAD Chem	1L Plastic	2	HNO3
Metals	250 mL Plastic	1	HNO3
Chloride,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 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> 8/29/2022					
<b>Time:</b> 09:39:00					
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:					
	Cut vegetation				
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report



<b>Project Location:</b> AP-1			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-47					
<b>Person Gauging:</b> David Prouty					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 10:23:00					
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	<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,	<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	<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	<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:					
Cut vegetation					
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-30I					
<b>Person Gauging:</b> Jake Swanson					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 12:49:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input 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:					
	Cut vegetation				
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>		8/29/2022			
<b>Time:</b>		12:39:00			
			Yes	No	N/A
1	Location Identification:				
a	Is the well visible and accessible?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:				
a	Is the protective casing free from apparent damage and able to be secured?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad				
a	Is the well pad in good condition (not cracked or broken)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing				
a	Does the cap prevent entry of foreign material into the well?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:				
a	Does well recharge adequately when purged?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:				
	Cut vegetation				
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> Jessica Ware					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 09:48:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA R6 CCR Landfill			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-39					
<b>Person Gauging:</b> Jessica Ware					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 13:12:00					
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> AMA R6 CCR Landfill			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-40					
<b>Person Gauging:</b> Jessica Ware					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 12:52:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input type="checkbox"/>	<input checked="" 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:					
Area overgrown, should be cleared					
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> Jessica Ware					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 12:17:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-18I				
<b>Person Gauging:</b> Jessica Ware				
<b>Date:</b> 8/29/2022				
<b>Time:</b> 12:14:00				
		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 type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-17S				
<b>Person Gauging:</b> Jessica Ware				
<b>Date:</b> 8/29/2022				
<b>Time:</b> 12:06:00				
		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 type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-5I				
<b>Person Gauging:</b> Jessica Ware				
<b>Date:</b> 8/29/2022				
<b>Time:</b> 10:22:00				
		Yes	No	N/A
1	Location Identification:			
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input 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 type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'			Yes	No	N/A
<b>Permit Number:</b>					
<b>Well ID:</b> YGWA-5D					
<b>Person Gauging:</b> Jessica Ware					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 10:11:00					
1 Location Identification:					
a	Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2 Protective Casing:					
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3 Surface Pad					
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4 Internal Casing					
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5 Sampling: Groundwater Wells Only:					
a	Does well recharge adequately when purged?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6 Based on your professional judgement, is the well construction / location:					
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7 Corrective actions as needed, by date:					
8 Date by when corrective actions are needed:					



# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-20S				
<b>Person Gauging:</b> Jessica Ware				
<b>Date:</b> 8/29/2022				
<b>Time:</b> 09:51:00				
		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 checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
a	Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
a	Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
a	Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
d	Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
e	Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
f	Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
a	Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
b	If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
c	Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

# Groundwater Gauging Well Inspection Report

<b>Project Location:</b> AMA AP-3, A, B and B'				
<b>Permit Number:</b>				
<b>Well ID:</b> YGWA-4I				
<b>Person Gauging:</b> Jessica Ware				
<b>Date:</b> 8/29/2022				
<b>Time:</b> 09:55:00				
		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 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:			
	No vehicle access, down trees			
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-11			
<b>Person Gauging:</b>		Jessica Ware			
<b>Date:</b>		8/29/2022			
<b>Time:</b>		11:32:00			
			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>		YGWA-1D			
<b>Person Gauging:</b>		Jessica Ware			
<b>Date:</b>		8/29/2022			
<b>Time:</b>		11:25:00			
			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>		YGWA-2I			
<b>Person Gauging:</b>		Jessica Ware			
<b>Date:</b>		8/29/2022			
<b>Time:</b>		11:36:00			
			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> Jessica Ware					
<b>Date:</b> 8/29/2022					
<b>Time:</b> 11:06:00					
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-3D			
<b>Person Gauging:</b>		Jessica Ware			
<b>Date:</b>		8/29/2022			
<b>Time:</b>		11:08:00			
			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 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 C

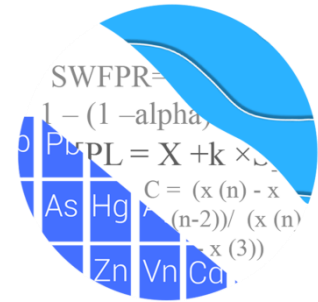
## Statistical Analysis



**Appendix III Statistically Significant Increase Summary (July through December 2022)**

Appendix III Parameter	August 2022
Boron	YGWC-44, YGWC-45, YGWC-46A
Calcium	YGWC-45, YGWC-46A, YGWC-52
Chloride	YGWC-44, YGWC-46A
Sulfate	YGWC-45, YGWC-46A
Total Dissolved Solids	YGWC-44, YGWC-45, YGWC-46A, YGWC-52

## GROUNDWATER STATS CONSULTING



February 28, 2023

Southern Company Services  
Attn: Ms. Lauren Coker  
241 Ralph McGill Blvd NE, Bin 10160  
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 1 (AP-1)  
August 2022 Sample Event Analysis

Dear Ms. Coker,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2022 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-1. 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-44, YGWC-45, YGWC-46A, and YGWC-52

Note that well YGWC-52 was installed in June 2020, and baseline sampling began in August 2020. Well YGWC-46 was abandoned in June 2020, and baseline sampling began at well YGWC-46A in July 2020 to supplement existing data in well YGWC-46. Data from well YGWC-46 were screened during the 2019 evaluation, and the findings of that report are summarized below. In the current analysis, reported observations from the August 2022 sample event for Appendix III constituents at YGWC-46A are compared to interwell prediction limits i.e., are treated the same as Appendix III data from the other downgradient wells. Data from wells YGWC-46 and YGWC-46A are plotted under well YGWC-46A.

Confidence intervals have been used to evaluate the combined data from both wells YGWC-46 and YGWC-46A for the Appendix IV constituents. All concentrations from both wells are below established MCLs. When a minimum of 8 samples had been collected from new well YGWC-46A; the Mann-Whitney test of medians was 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 is truncated so that only data from new well YGWC-46A, which may be more representative of present-day groundwater quality, are evaluated with confidence interval comparisons to respective Groundwater Protection Standards. This process is described below.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Dr. Jim Loftis, Civil & Environmental Engineering professor emeritus at Colorado State University and Senior Advisor to Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs with 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

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. On time series plots, a single reporting limit substitution is used across all wells for a given parameter since the wells are plotted as a group. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

### **Summary of Statistical Methods – Appendix III and IV Parameters**

Based on the April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals 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 in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

## **Summary of Background Screening – Appendix III and IV Constituents - Conducted in April 2019**

### Outlier Analysis

For the original well network which consisted of upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46, 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. All other upgradient well data

from neighboring units were previously screened for outliers with their respective reports. Suspected outliers at all wells for Appendix III and IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. Tukey's test results followed the screening.

Using the Tukey box plot method, a couple outliers were identified. 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.

The reported non-detect value of 0.01 mg/L for cobalt at well YGWC-45 and the detected value of 6.3 s.u. for pH at well YGWA-47 were flagged as outliers because they were both unusually high during a single event compared to all other values at neighboring wells. The high non-detect value for cobalt does not provide any useful information. 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.

### Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

### Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at upgradient well YGWA-47 and downgradient wells YGWC-44, YGWC-45, and YGWC-46 to identify whether statistically significant increasing or decreasing trends were present. The trend analyses showed a statistically significant increasing trend for lithium in well YGWC-46.

The reports were submitted with the background screening analysis, and all other upgradient wells at neighboring units were evaluated for trends with their respective reports. 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. While no records required adjustment at the time of the screening, if that is necessary in the future, a summary report will be provided to show the date ranges used in construction of the statistical limits

### Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) is typically used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach (interwell or intrawell). However, only one upgradient well was present at the time of the screening and the ANOVA requires a minimum of two wells. Therefore, the ANOVA was not utilized in the background screening.

Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

### **Statistical Analysis of Appendix III Parameters – August 2022**

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. No new values were flagged for Appendix III parameters, and a summary of flagged outliers follows this report (Figure C).

### Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through August 2022 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an

individual constituent. The August 2022 sample from each downgradient well is compared to the background limit to determine whether statistically significant increases (SSIs) are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified, and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result. Therefore, no exceedance is noted, and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. A summary table of the interwell prediction limits follows this letter. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-44, YGWC-45, and YGWC-46A
- Calcium: YGWC-45, YGWC-46A, and YGWC-52
- Chloride: YGWC-44 and YGWC-46A
- Sulfate: YGWC-45 and YGWC-46A
- TDS: YGWC-44, YGWC-45, YGWC-46A, and YGWC-52

Note that in order to maintain a statistical limit that is conservative from a regulatory perspective, an interwell parametric prediction limit was constructed for TDS.

### 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 (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. No statistically significant increasing trends were identified for any downgradient wells. The following statistically significant trends were identified:

#### Increasing

- Calcium: YGWA-1D, YGWA-21I, YGWA-17S, and GWA-2 (all upgradient)
- Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, and YGWA-40 (all upgradient)



- Sulfate: YGWA-1D, YGWA-3D, YGWA-3I, YGWA-5I, and GWA-2 (all upgradient)
- TDS: GWA-2 and YGWA-39 (both upgradient)

#### Decreasing

- Boron: YGWA-40 (upgradient)
- Calcium: YGWA-1I, YGWA-5D, YGWA-18S, and YGWA-47 (all upgradient)
- Chloride: YGWA-3D, YGWA-5D, and YGWA-47 (all upgradient)
- Sulfate: YGWA-5D (upgradient), YGWA-39 (upgradient), YGWA-40 (upgradient), YGWA-47 (upgradient), YGWC-45, and YGWC-46A
- TDS: YGWA-5D and YGWA-47 (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 – August 2022**

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. Downgradient 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.

A high value of 0.075 mg/L for cobalt at upgradient well GWA-2 from the August 2022 sample event was flagged in order to maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective. The more recent reported measurements since August 2020 were previously flagged as these measurements were two orders of magnitude higher than remaining measurements at this well. If further studies indicate these measurements represent natural variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. A summary of flagged outliers follows this report (Figure C).

#### Mann-Whitney Test of Medians

During the previous analysis, the Mann-Whitney (Wilcoxon Rank Sum) test was used to compare the medians of observations sampled before July 2020 at abandoned well YGWC-46 to the medians of the 8 most recent observations sampled at well YGWC-46A through February 2022 for each Appendix IV parameter. When no variation is present

between historical data and compliance samples, the Mann-Whitney test is not performed, which is the case for beryllium, chromium, and selenium. Significant differences were identified for barium, cobalt, and lithium at the 99% confidence level; therefore, the records were not combined. The earlier data are shown on the time series as disconnected point and in a lighter font on the data pages. Cadmium, combined radium 226 + 228, mercury, and thallium did not yet have 8 samples beyond July 2020 due to historical sampling procedures; therefore, they were not tested at that time.

During this analysis, combined radium 226 + 228 was analyzed with the Mann-Whitney test to compare the medians of observations sampled before July 2020 at abandoned well YGWC-46 to the medians the 8 most recent observations sampled at well YGWC-46A through August 2022 (Figure F). Cadmium, mercury, and thallium did not have sufficient samples beyond July 2020 to be compared at this time. When the medians of the two groups are statistically significantly different at the 99% confidence level (like barium, cobalt, and lithium from the previous report), the historical data sampled from abandoned well YGWC-46 are truncated to only use data from well YGWC-46A. No significant results were identified for combined radium 226 + 228; therefore, no truncation was required. A list of the constituents using truncated records follows this report.

### Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2022 for Appendix IV constituents (Figure G). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% non-detects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. When the alpha level (or false positive rate) for a nonparametric limit is shown as NaN in the results table, it indicates that the background sample size is large enough such that the resulting alpha level is too small to display in the results table.

### Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure H).

### Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through August 2022 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure I). Beryllium and selenium were 100% non-detects at all downgradient wells.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, as appropriate. Confidence intervals were compared to the GWPS prepared as described above. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. 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-1. 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 10/7/2022 9:40 AM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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Antimony (mg/L)  
YGWC-44, YGWC-52

Arsenic (mg/L)  
YGWC-52

Beryllium (mg/L)  
YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Cadmium (mg/L)  
YGWC-44, YGWC-45, YGWC-52

Chromium (mg/L)  
YGWC-44, YGWC-46A

Lead (mg/L)  
YGWC-44

Mercury (mg/L)  
YGWC-52

Molybdenum (mg/L)  
YGWC-52

Selenium (mg/L)  
YGWC-44, YGWC-45, YGWC-46A, YGWC-52

Thallium (mg/L)  
YGWC-45, YGWC-52

# Date Ranges

Date: 10/6/2022 1:57 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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Barium (mg/L)

YGWC-46A overall:7/6/2020-8/31/2022

Cobalt (mg/L)

YGWC-46A overall:7/6/2020-8/31/2022

Lithium (mg/L)

YGWC-46A overall:7/6/2020-8/31/2022

# Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/6/2022, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	YGWC-44	0.16	n/a	8/31/2022	0.54	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Boron, total (mg/L)	YGWC-45	0.16	n/a	8/31/2022	0.33	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Boron, total (mg/L)	YGWC-46A	0.16	n/a	8/31/2022	2.1	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-45	37	n/a	8/31/2022	51.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-46A	37	n/a	8/31/2022	110	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-52	37	n/a	8/31/2022	41.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	YGWC-44	12	n/a	8/31/2022	14.5	Yes	350	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	YGWC-46A	12	n/a	8/31/2022	29.9	Yes	350	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-45	160	n/a	8/31/2022	177	Yes	350	n/a	n/a	6	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-46A	160	n/a	8/31/2022	459	Yes	350	n/a	n/a	6	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	211.5	n/a	8/31/2022	343	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.00188	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	211.5	n/a	8/31/2022	445	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.00188	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	211.5	n/a	8/31/2022	948	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.00188	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	211.5	n/a	8/31/2022	266	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.00188	Param Inter 1 of 2

# Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/6/2022, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Boron, total (mg/L)</b>	<b>YGWC-44</b>	<b>0.16</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>0.54</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>YGWC-45</b>	<b>0.16</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>0.33</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>YGWC-46A</b>	<b>0.16</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>2.1</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
Boron, total (mg/L)	YGWC-52	0.16	n/a	8/31/2022	0.04ND	No	350	n/a	n/a	48.57	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-44	37	n/a	8/31/2022	30.8	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>YGWC-45</b>	<b>37</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>51.8</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0.8571</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>YGWC-46A</b>	<b>37</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>110</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0.8571</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>YGWC-52</b>	<b>37</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>41.8</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0.8571</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>YGWC-44</b>	<b>12</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>14.5</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	YGWC-45	12	n/a	8/31/2022	5.4	No	350	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>YGWC-46A</b>	<b>12</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>29.9</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	YGWC-52	12	n/a	8/31/2022	3.4	No	350	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	YGWC-44	0.68	n/a	8/31/2022	0.055J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-45	0.68	n/a	8/31/2022	0.1	No	419	n/a	n/a	65.63	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-46A	0.68	n/a	8/31/2022	0.12	No	419	n/a	n/a	65.63	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-52	0.68	n/a	8/31/2022	0.059J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	YGWC-44	8.39	4.4	8/31/2022	5.77	No	429	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-45	8.39	4.4	8/31/2022	6.56	No	429	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-46A	8.39	4.4	8/31/2022	6.87	No	429	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-52	8.39	4.4	8/31/2022	5.58	No	429	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-44	160	n/a	8/31/2022	130	No	350	n/a	n/a	6	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-45</b>	<b>160</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>177</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>6</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-46A</b>	<b>160</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>459</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>6</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate as SO4 (mg/L)	YGWC-52	160	n/a	8/31/2022	122	No	350	n/a	n/a	6	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-44</b>	<b>211.5</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>343</b>	<b>Yes</b>	<b>350</b>	<b>10.07</b>	<b>2.588</b>	<b>0.5714</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.00188</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-45</b>	<b>211.5</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>445</b>	<b>Yes</b>	<b>350</b>	<b>10.07</b>	<b>2.588</b>	<b>0.5714</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.00188</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-46A</b>	<b>211.5</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>948</b>	<b>Yes</b>	<b>350</b>	<b>10.07</b>	<b>2.588</b>	<b>0.5714</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.00188</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-52</b>	<b>211.5</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>266</b>	<b>Yes</b>	<b>350</b>	<b>10.07</b>	<b>2.588</b>	<b>0.5714</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.00188</b>	<b>Param Inter 1 of 2</b>

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/6/2022, 5:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-47 (bg)	-1.342	-95	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-17S (bg)	0.1364	109	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-18S (bg)	-0.08039	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-21I (bg)	0.9751	97	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5D (bg)	-1.676	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GWA-2 (bg)	3.453	82	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1D (bg)	0.6514	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1I (bg)	-0.09504	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-47 (bg)	-17.58	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWC-45	-5.687	-69	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-39 (bg)	-2.631	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-40 (bg)	-8.899	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5D (bg)	-2.862	-129	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5I (bg)	0.08795	115	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	17.26	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-1D (bg)	0.9733	121	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3D (bg)	0.3364	89	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3I (bg)	1.016	86	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWC-46A	-50.31	-91	-81	Yes	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP



# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/6/2022, 5:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	YGWA-47 (bg)	-0.0008357	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWC-44	-0.02074	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWC-45	0	-2	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-17S (bg)	0.0001704	22	74	No	19	10.53	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18I (bg)	0	-22	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18S (bg)	0.000309	24	74	No	19	21.05	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-20S (bg)	0	-9	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-21I (bg)	-0.0004731	-56	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-39 (bg)	0.01331	56	58	No	16	6.25	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-0.01529</b>	<b>-77</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	YGWA-4I (bg)	0	1	74	No	19	68.42	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5D (bg)	0.0003037	31	74	No	19	10.53	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5I (bg)	0	-25	-74	No	19	63.16	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-2 (bg)	0	23	63	No	17	64.71	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-14S (bg)	-0.000665	-40	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1D (bg)	0.0008221	34	74	No	19	36.84	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1I (bg)	0	-8	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-2I (bg)	0	-6	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-30I (bg)	0	-19	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3D (bg)	0	0	74	No	19	57.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3I (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWC-46A	0.07014	47	81	No	20	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-1.342</b>	<b>-95</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>6.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWC-45	-0.03813	-6	-58	No	16	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.1364</b>	<b>109</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-18I (bg)	0.04637	26	74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-18S (bg)</b>	<b>-0.08039</b>	<b>-114</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-20S (bg)	0.03848	54	74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-21I (bg)</b>	<b>0.9751</b>	<b>97</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-39 (bg)	1.273	55	58	No	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-40 (bg)	-0.6546	-42	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-4I (bg)	0.04736	10	74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-1.676</b>	<b>-100</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-5I (bg)	0.06231	74	74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>3.453</b>	<b>82</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>
Calcium, total (mg/L)	YGWA-14S (bg)	0	-15	-74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-1D (bg)</b>	<b>0.6514</b>	<b>86</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>YGWA-1I (bg)</b>	<b>-0.09504</b>	<b>-93</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-2I (bg)	0.08578	13	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-30I (bg)	0.0125	31	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3D (bg)	0.4525	59	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3I (bg)	0.5467	60	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-46A	2.783	78	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-52	-6.094	-18	-21	No	8	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-0.4528</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWC-44	0.1746	42	58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.5433</b>	<b>127</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>YGWA-18I (bg)</b>	<b>0.1027</b>	<b>78</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-18S (bg)	0.1557	72	74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-20S (bg)</b>	<b>0.1337</b>	<b>107</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-21I (bg)	-0.1148	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-39 (bg)	0.768	51	58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>0.326</b>	<b>66</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-4I (bg)	0.08123	41	74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-0.7454</b>	<b>-124</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/6/2022, 5:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	YGWA-5I (bg)	0	5	74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>0.2567</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>
Chloride, Total (mg/L)	YGWA-14S (bg)	0.1251	51	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1D (bg)	0	-37	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1I (bg)	-0.01802	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-2I (bg)	-0.02221	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-30I (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>-0.0435</b>	<b>-80</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-3I (bg)	-0.02929	-65	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWC-46A	-0.8443	-37	-81	No	20	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-17.58</b>	<b>-107</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-45</b>	<b>-5.687</b>	<b>-69</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-17S (bg)	0.04813	32	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18I (bg)	-0.1345	-67	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18S (bg)	-0.1232	-53	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-20S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-21I (bg)	-0.2256	-45	-74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>-2.631</b>	<b>-74</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-8.899</b>	<b>-89</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-4I (bg)	0.04641	22	74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-2.862</b>	<b>-129</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-5I (bg)</b>	<b>0.08795</b>	<b>115</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>17.26</b>	<b>87</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>
Sulfate as SO4 (mg/L)	YGWA-14S (bg)	0	-4	-74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-1D (bg)</b>	<b>0.9733</b>	<b>121</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-1I (bg)	-0.1053	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-2I (bg)	1.041	62	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-30I (bg)	-0.01853	-15	-74	No	19	10.53	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>0.3364</b>	<b>89</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-3I (bg)</b>	<b>1.016</b>	<b>86</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-46A</b>	<b>-50.31</b>	<b>-91</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-14.82</b>	<b>-90</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	-5.653	-31	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	-0.1836	-2	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-17S (bg)	3.694	44	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18I (bg)	-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18S (bg)	0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-20S (bg)	2.688	34	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-21I (bg)	10.54	68	74	No	19	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>30.24</b>	<b>64</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWA-40 (bg)	-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-4I (bg)	0	-1	-74	No	19	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-12.99</b>	<b>-99</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWA-5I (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>21.5</b>	<b>67</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 [TDS] (mg/L)	YGWA-14S (bg)	0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1D (bg)	0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1I (bg)	-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-2I (bg)	-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-30I (bg)	2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3D (bg)	0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3I (bg)	0.954	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	-49.58	-46	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	-36.62	-18	-21	No	8	0	n/a	n/a	0.01	NP

# Welch's t-test/Mann-Whitney - All Results (No Significant)

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/7/2022, 9:30 AM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Method</u>
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	2.084	No	Mann-W

# Upper Tolerance Limit Summary Table

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/6/2022, 5:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	372	n/a	n/a	87.63	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	420	n/a	n/a	74.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	420	n/a	n/a	2.619	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	404	n/a	n/a	80.2	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	404	n/a	n/a	95.54	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	372	n/a	n/a	80.11	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	414	n/a	n/a	69.32	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	399	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	419	n/a	n/a	65.63	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	374	n/a	n/a	85.29	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	399	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a	328	n/a	n/a	93.29	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	363	n/a	n/a	60.33	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	402	n/a	n/a	92.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	338	n/a	n/a	97.04	n/a	n/a	NaN	NP Inter(NDs)

<b>YATES ASH POND 1 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		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	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*

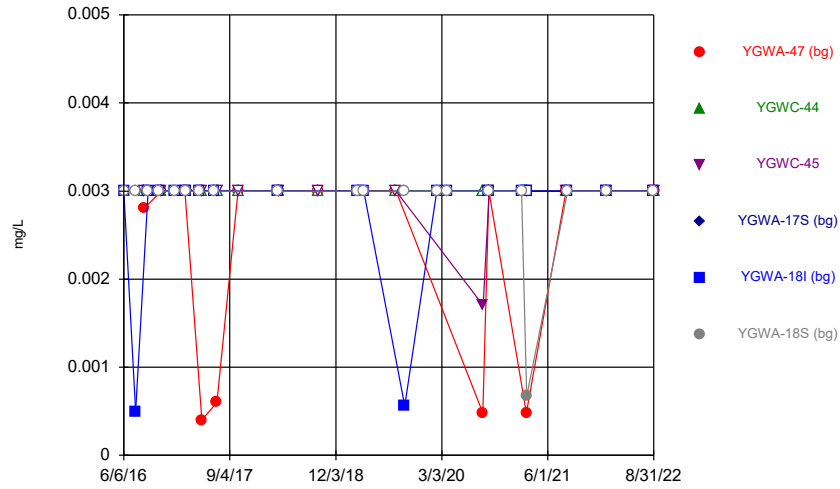
# Confidence Intervals - All Results (No Significant)

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/7/2022, 9:42 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-45	0.003	0.0017	0.006	n/a	No	15	0.002913	0.0003357	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-46A	0.003	0.00029	0.006	n/a	No	18	0.002849	0.0006388	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-44	0.005	0.00086	0.01	n/a	No	17	0.003743	0.00201	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-45	0.005	0.00078	0.01	n/a	No	17	0.003983	0.00189	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-46A	0.005	0.00091	0.01	n/a	No	20	0.002505	0.001908	35	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-44	0.1127	0.09274	2	n/a	No	17	0.1027	0.01591	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-45	0.06973	0.05704	2	n/a	No	17	0.06338	0.01013	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-46A	0.04742	0.03969	2	n/a	No	9	0.04356	0.004003	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-52	0.02056	0.01769	2	n/a	No	8	0.01913	0.001356	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-46A	0.0005	0.00012	0.005	n/a	No	17	0.0004318	0.000152	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-45	0.0061	0.0006	0.1	n/a	No	15	0.004485	0.001607	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-52	0.005	0.00073	0.1	n/a	No	8	0.002966	0.002178	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	YGWC-44	0.003716	0.001775	0.035	n/a	No	17	0.003129	0.002594	5.882	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-45	0.0008355	0.0006283	0.035	n/a	No	16	0.0007319	0.0001593	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-46A	0.002855	0.0006349	0.035	n/a	No	9	0.001736	0.001315	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-52	0.001998	0.001142	0.035	n/a	No	8	0.00157	0.000404	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-44	0.945	0.2735	6.92	n/a	No	17	0.6797	0.6197	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-45	1.486	0.9125	6.92	n/a	No	17	1.199	0.4576	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	1.698	1.055	6.92	n/a	No	20	1.376	0.5668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-52	0.9369	0.302	6.92	n/a	No	7	0.647	0.2772	0	None	x^2	0.01	Param.
Fluoride, total (mg/L)	YGWC-44	0.12	0.07	4	n/a	No	18	0.09361	0.01908	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	YGWC-45	0.2	0.075	4	n/a	No	18	0.1588	0.1589	22.22	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	YGWC-46A	0.12	0.084	4	n/a	No	21	0.1109	0.06364	23.81	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	YGWC-52	0.1	0.059	4	n/a	No	8	0.09488	0.0145	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	YGWC-45	0.001	0.0001	0.015	n/a	No	15	0.00094	0.0002324	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-46A	0.001	0.000044	0.015	n/a	No	18	0.0009469	0.0002253	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-52	0.001	0.00006	0.015	n/a	No	8	0.0005379	0.0004941	50	None	No	0.004	NP (normality)
Lithium (mg/L)	YGWC-44	0.01347	0.01249	0.04	n/a	No	17	0.01298	0.0007798	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-45	0.0147	0.012	0.04	n/a	No	17	0.01313	0.001551	0	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-46A	0.01437	0.01163	0.04	n/a	No	9	0.013	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-52	0.004649	0.003951	0.04	n/a	No	8	0.0043	0.0003295	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-44	0.0002	0.00006	0.002	n/a	No	13	0.0001892	0.00003883	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-45	0.0002	0.000071	0.002	n/a	No	13	0.0001901	0.00003578	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-46A	0.0002	0.00007	0.002	n/a	No	15	0.0001913	0.00003357	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-44	0.01	0.0005	0.1	n/a	No	17	0.009441	0.002304	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-45	0.0024	0.0011	0.1	n/a	No	17	0.002924	0.003392	17.65	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-46A	0.003669	0.001669	0.1	n/a	No	20	0.00325	0.002986	15	None	ln(x)	0.01	Param.
Thallium (mg/L)	YGWC-44	0.001	0.00008	0.002	n/a	No	15	0.0009387	0.0002375	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-46A	0.001	0.000073	0.002	n/a	No	17	0.0009455	0.0002248	94.12	None	No	0.01	NP (NDs)

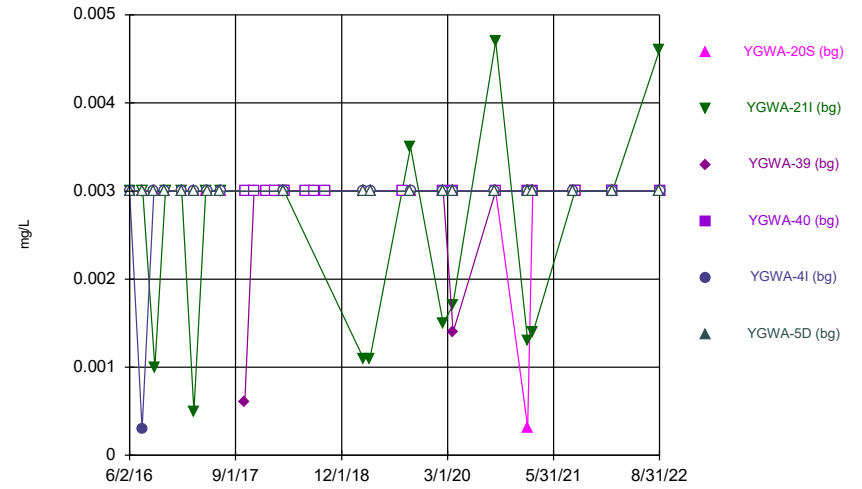
FIGURE A.

### Time Series



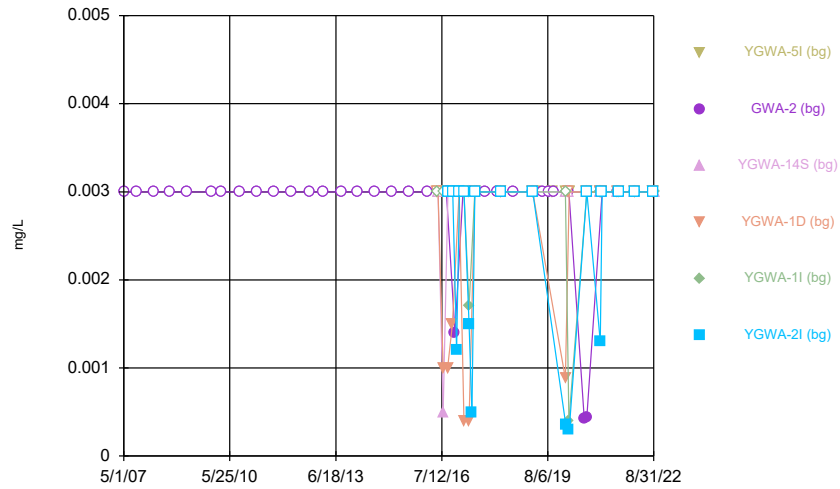
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



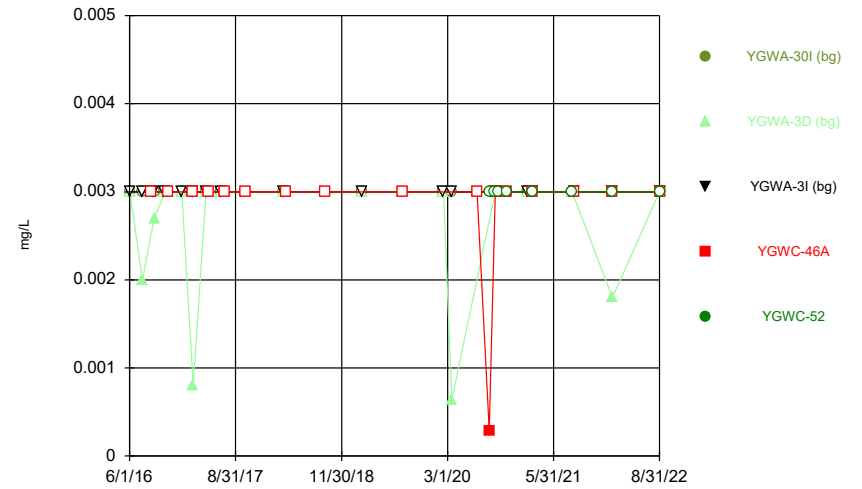
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### Time Series



Constituent: Antimony Analysis Run 10/6/2022 4:37 PM  
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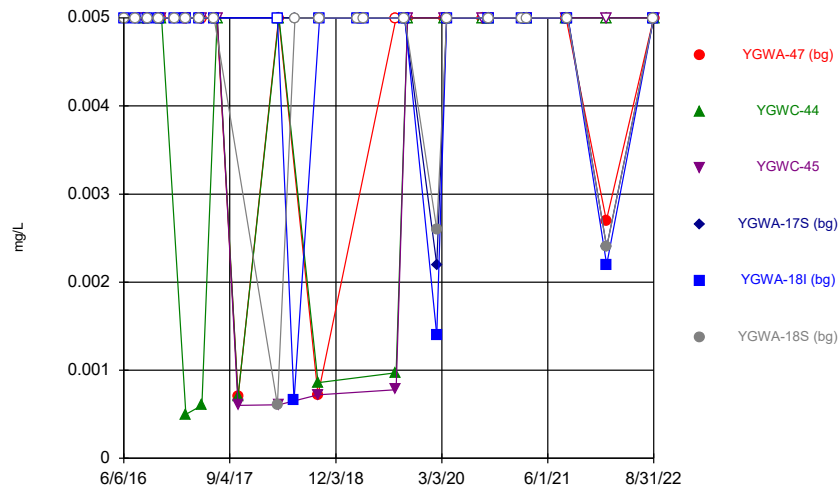
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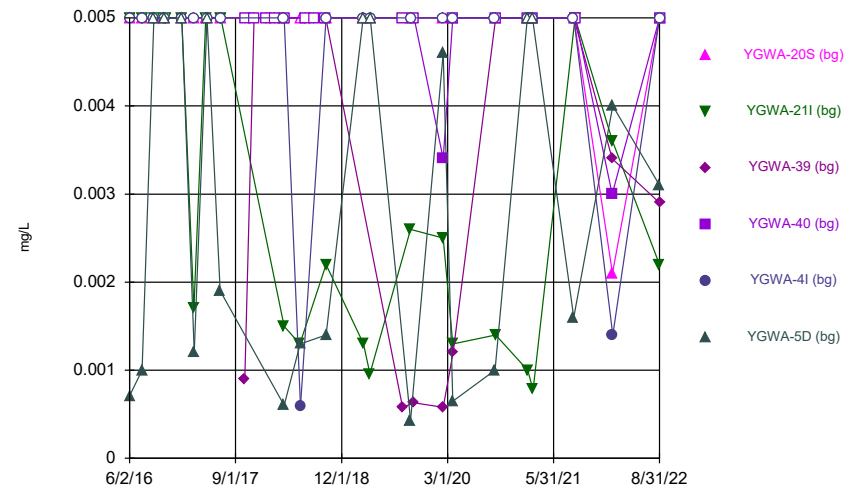


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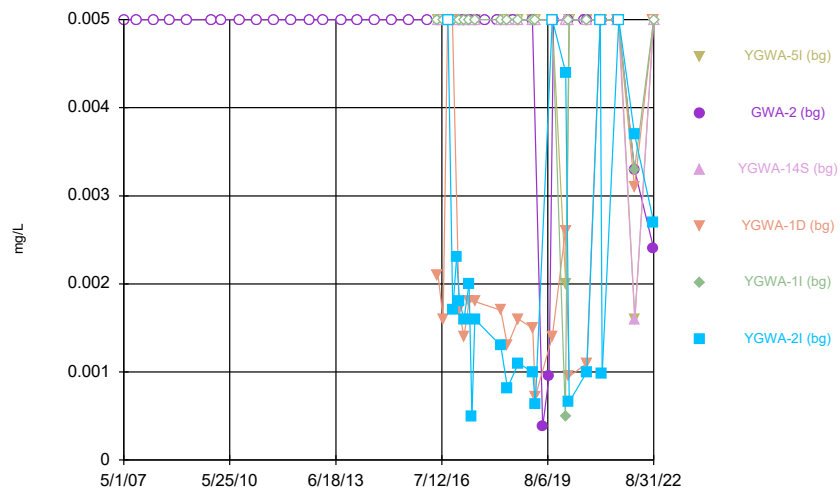
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Time Series



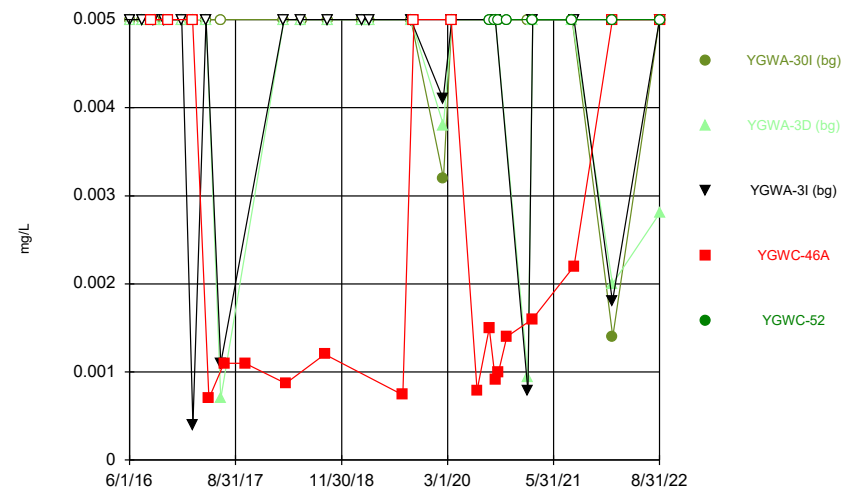
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Time Series



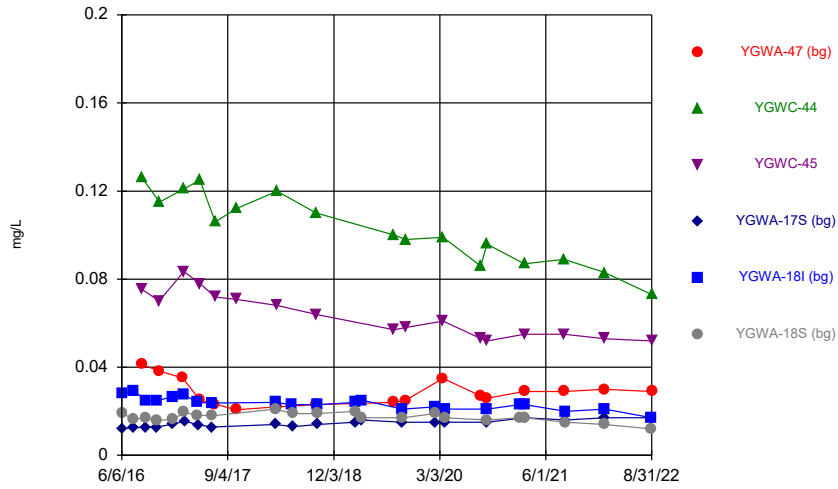
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Time Series



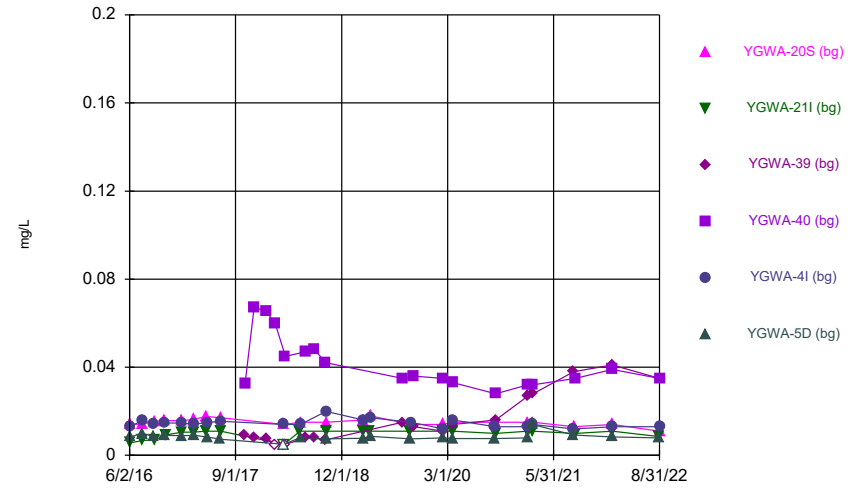
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Time Series



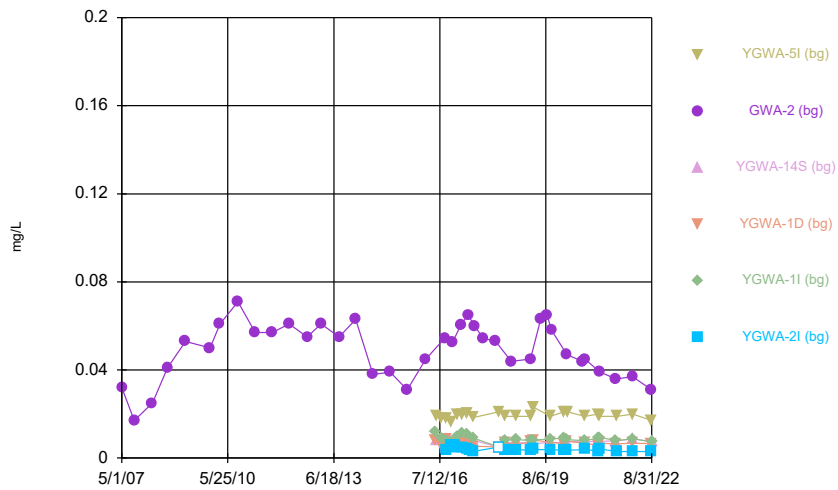
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



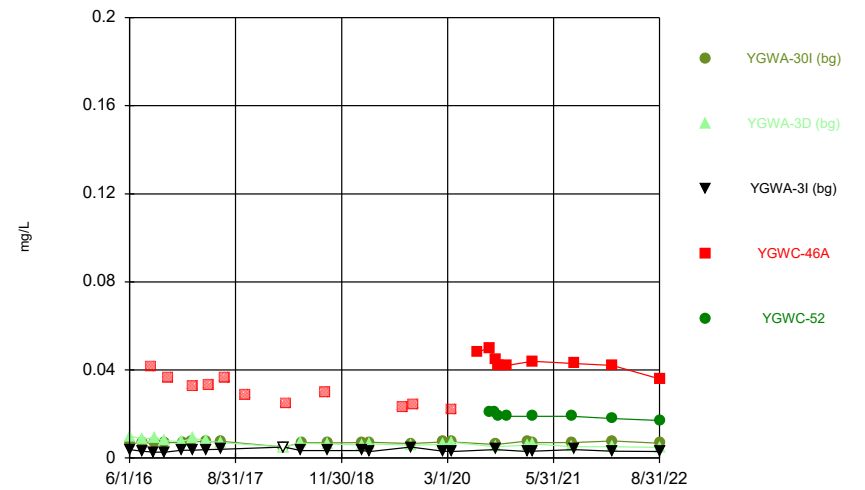
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Time Series



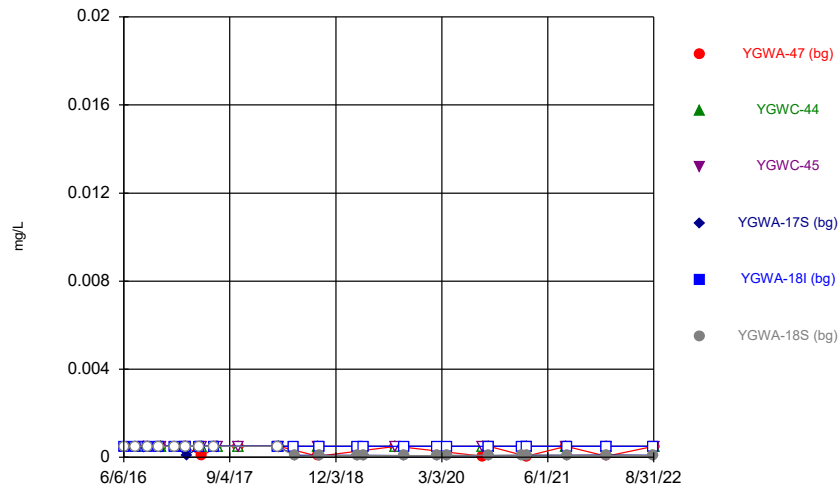
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Time Series



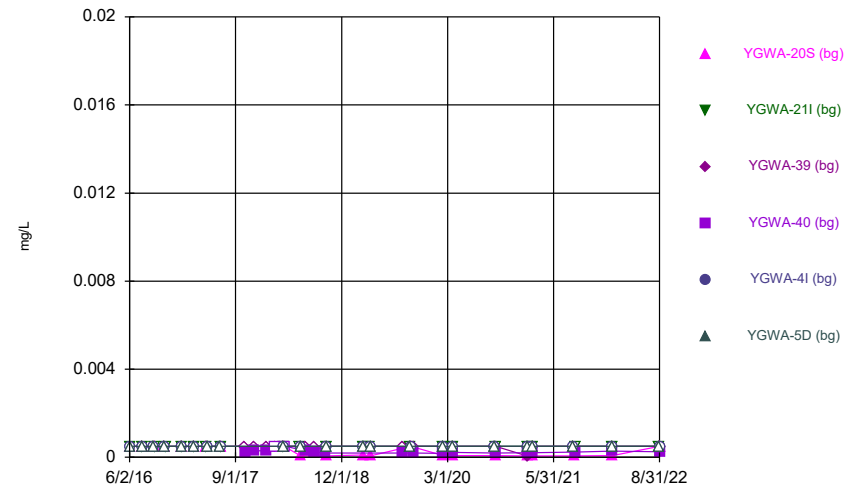
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### Time Series



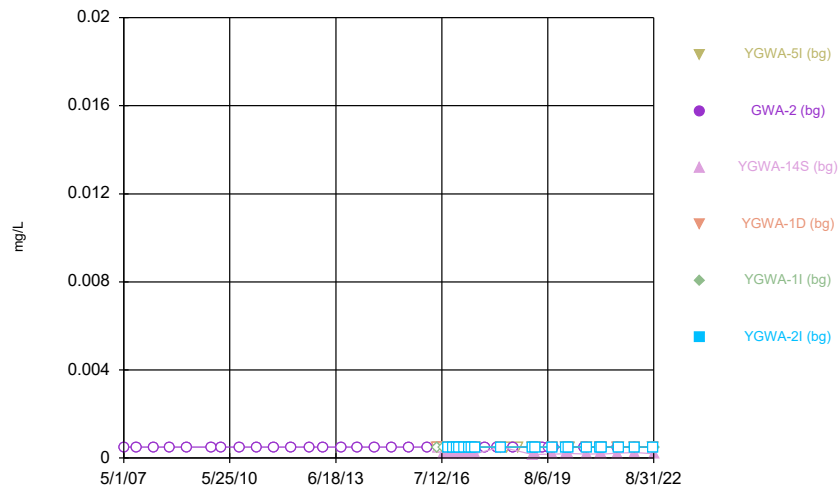
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### Time Series



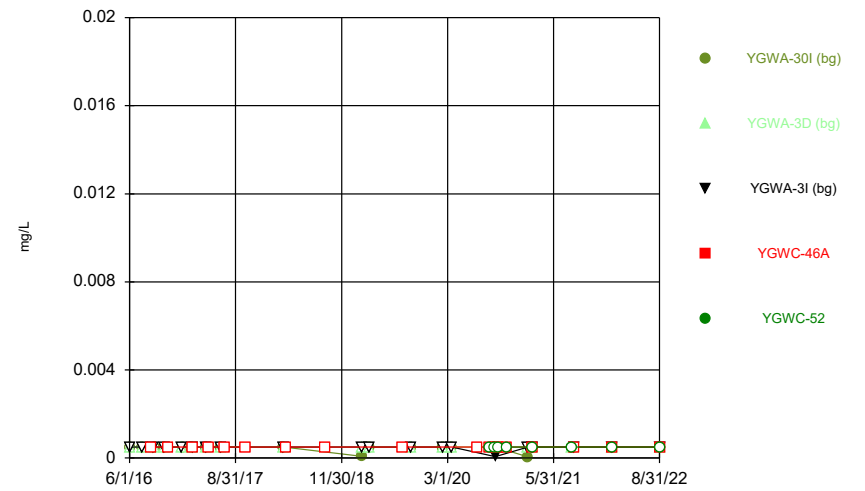
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### Time Series



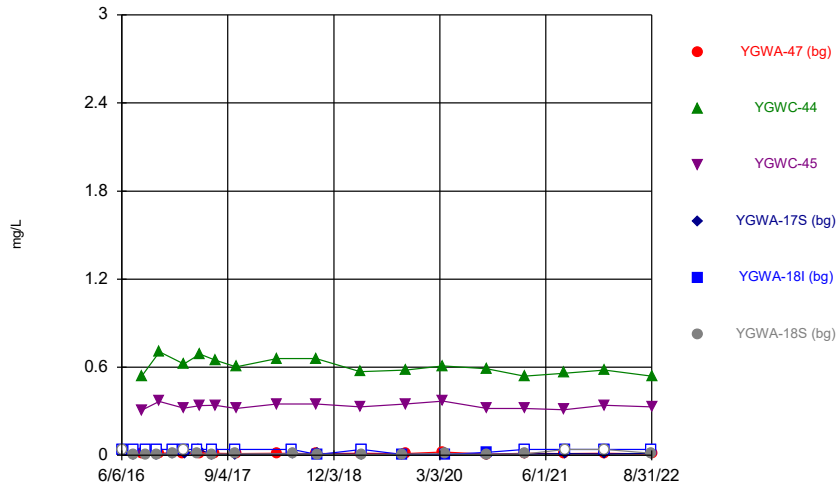
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### Time Series



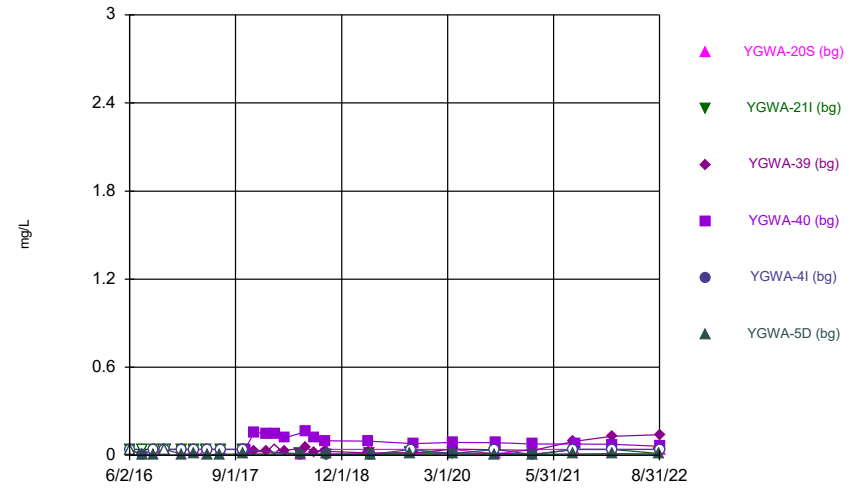
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Time Series



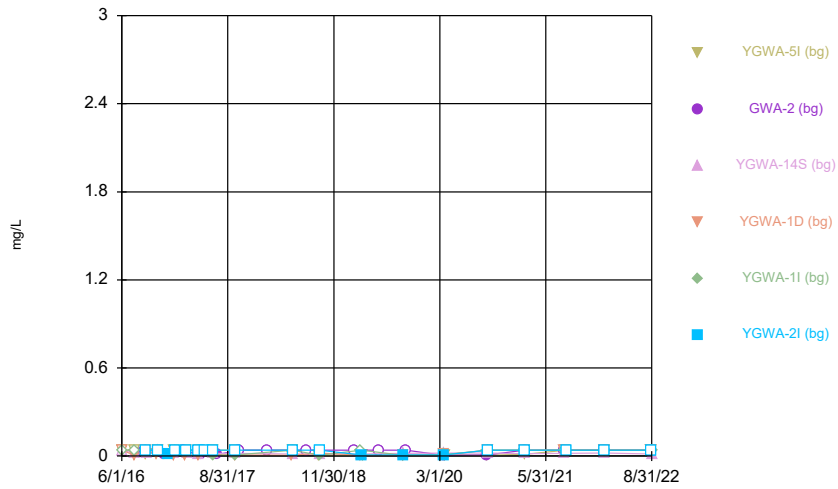
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



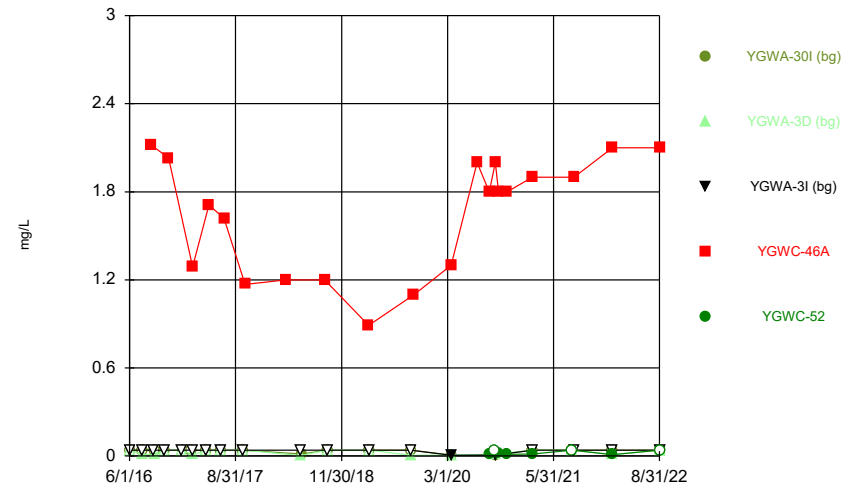
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



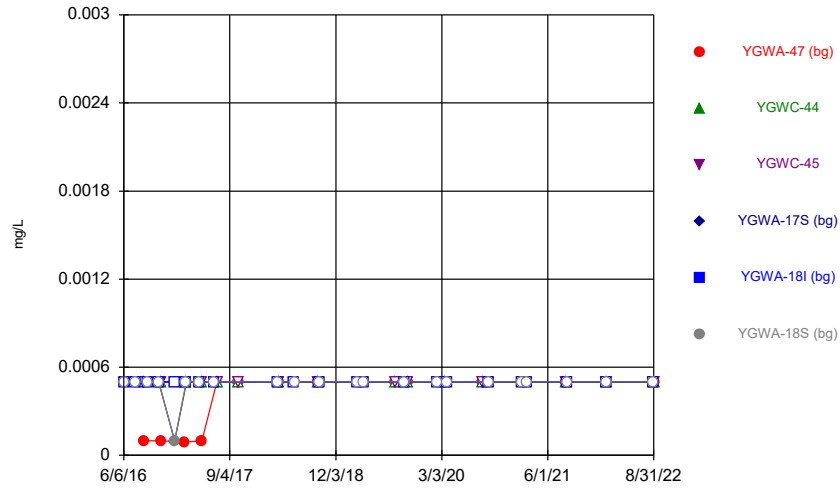
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Time Series



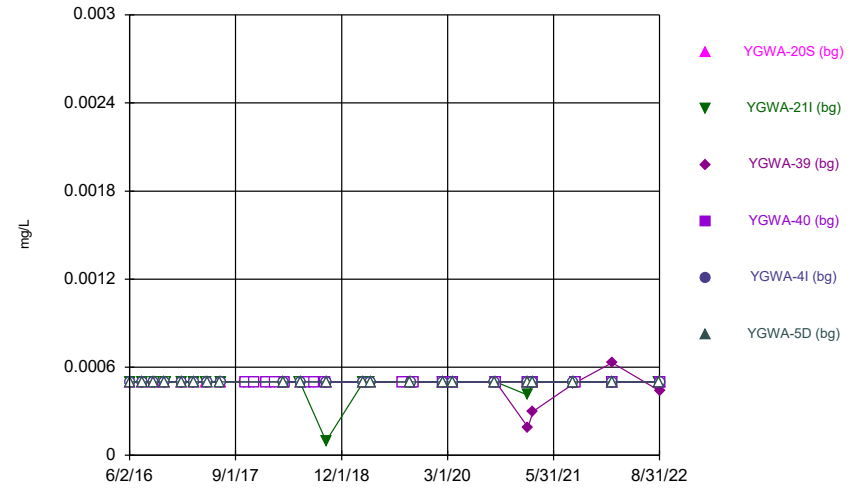
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### Time Series



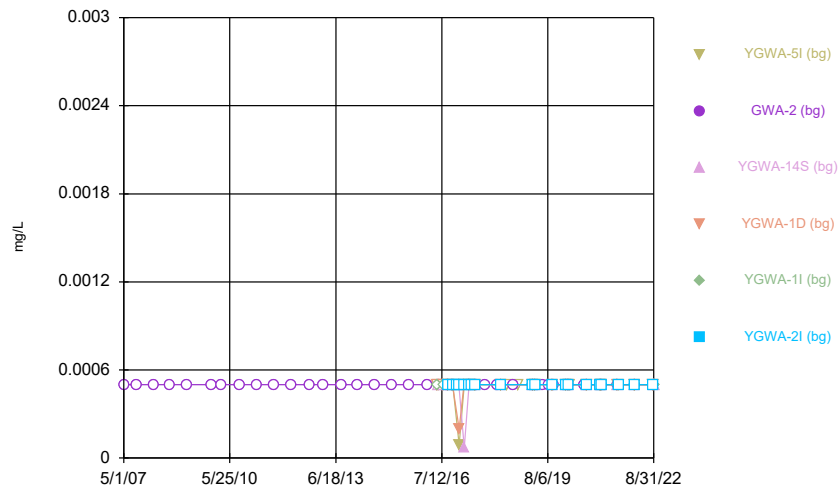
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### Time Series



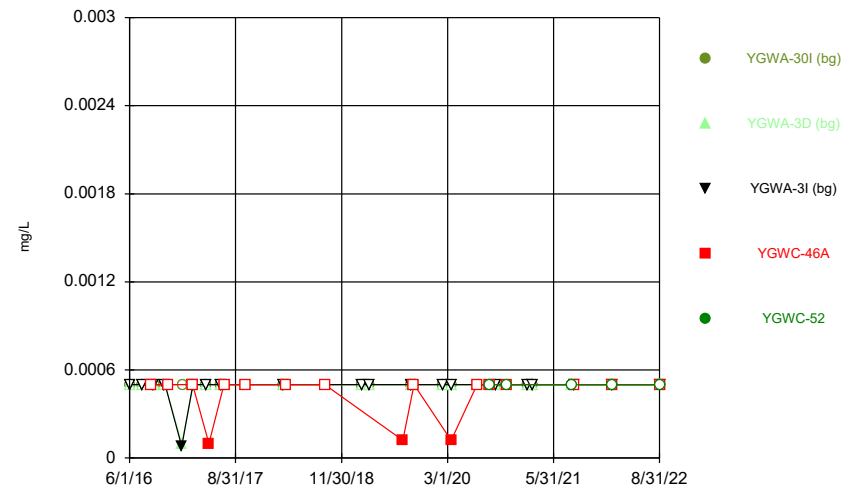
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### Time Series



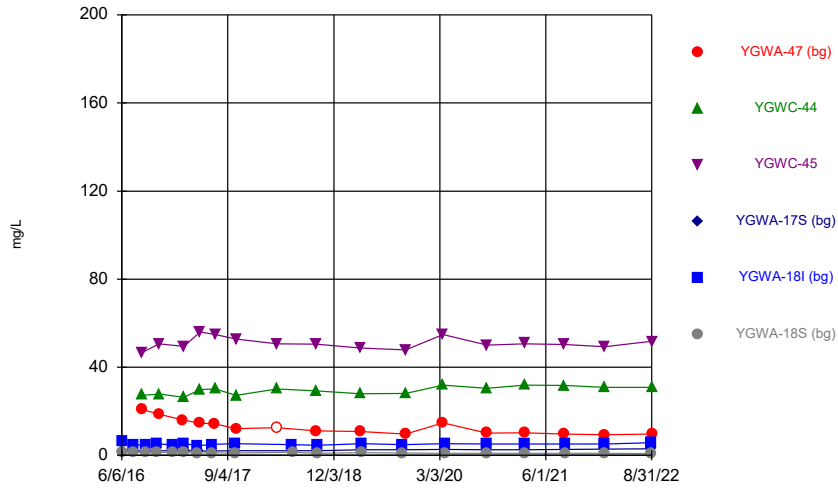
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### Time Series



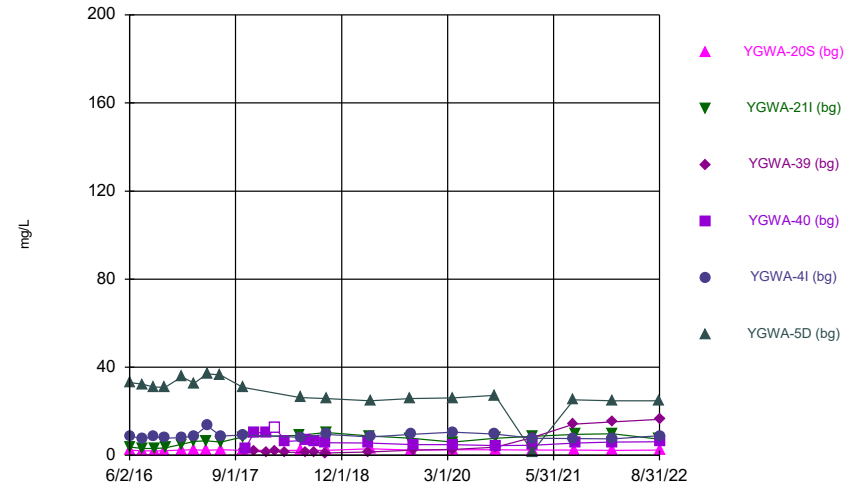
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### Time Series



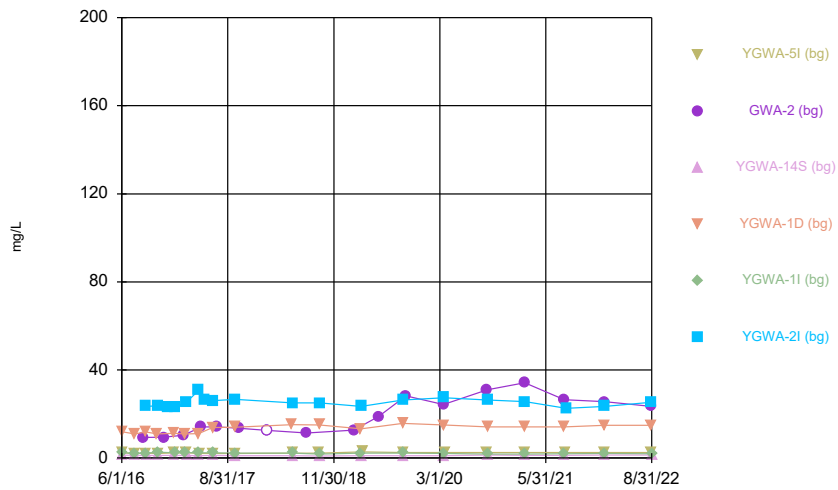
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



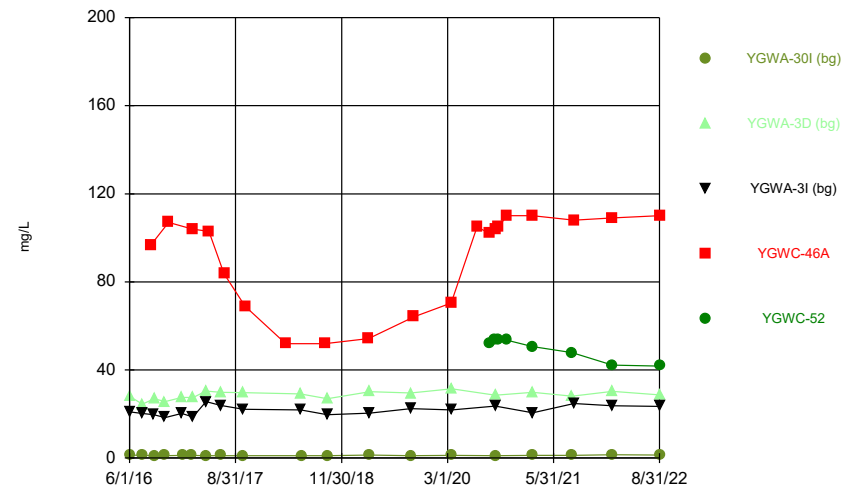
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### Time Series



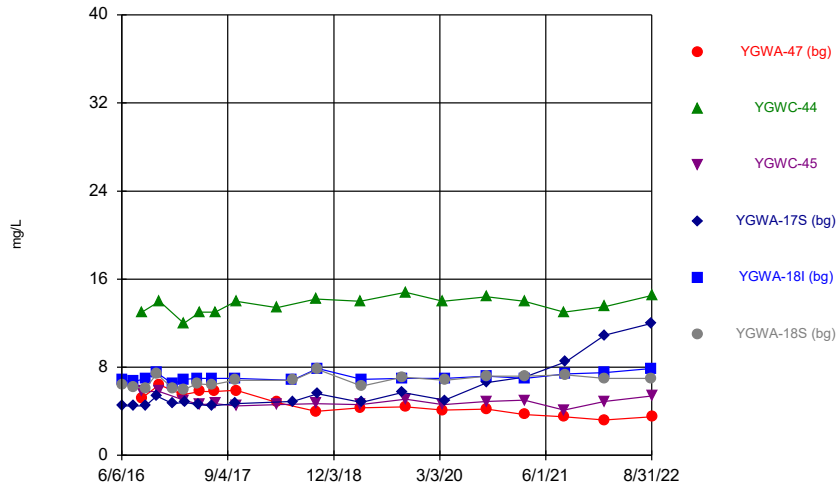
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### Time Series



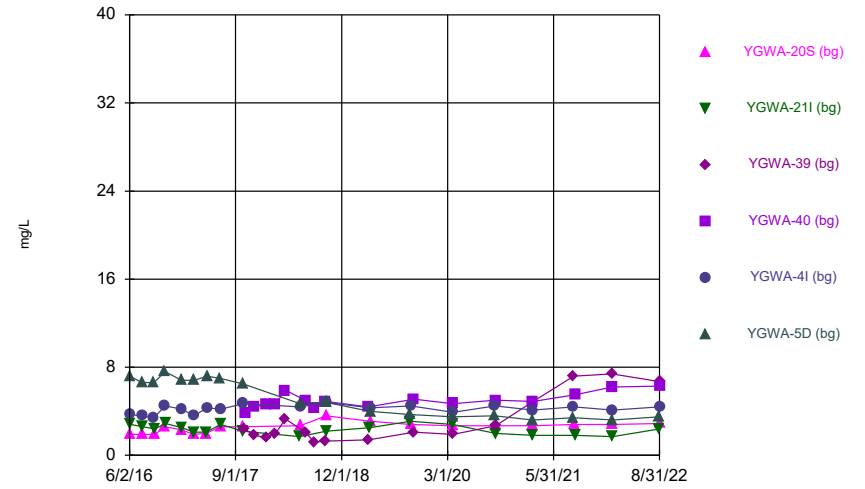
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Time Series



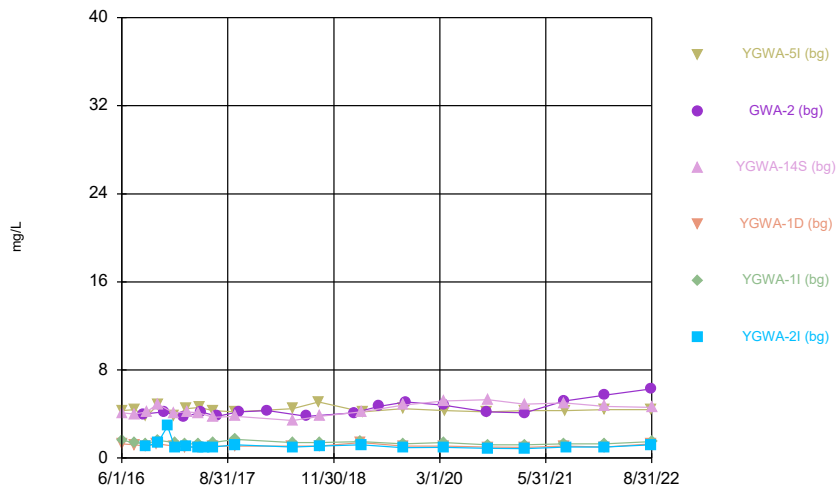
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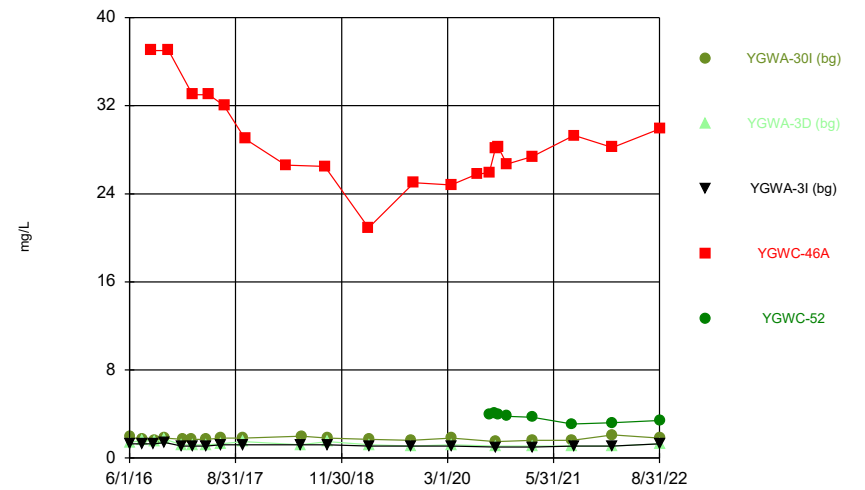
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Time Series



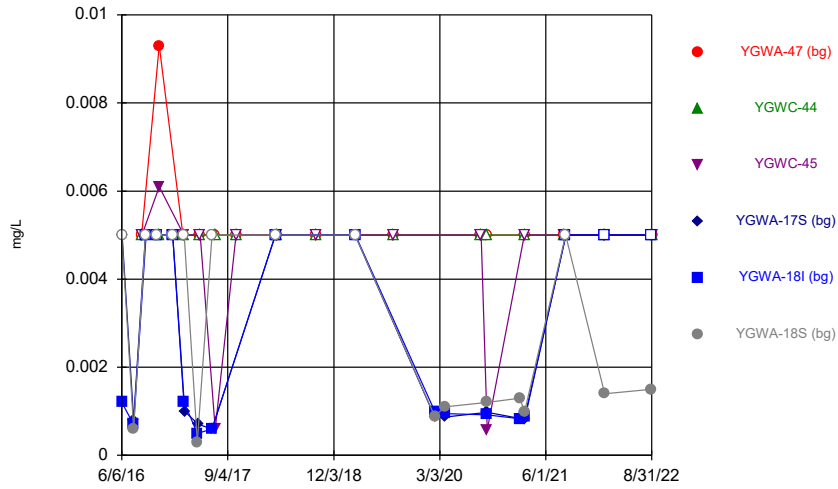
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Time Series



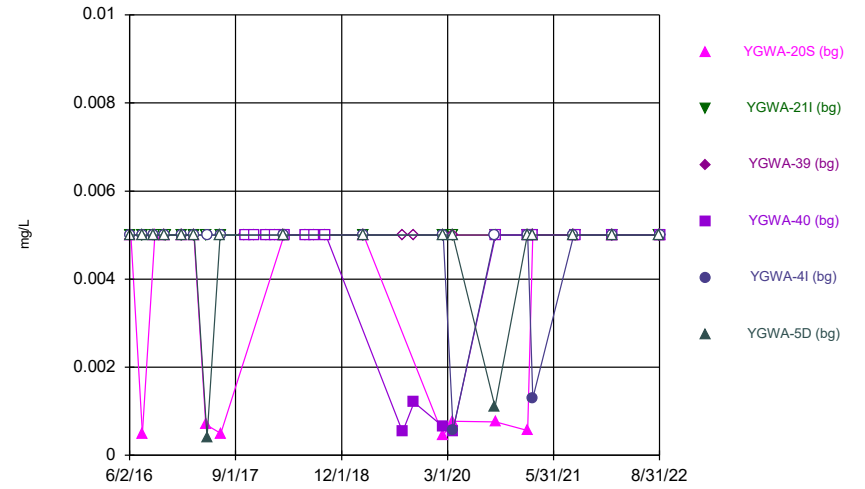
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Time Series



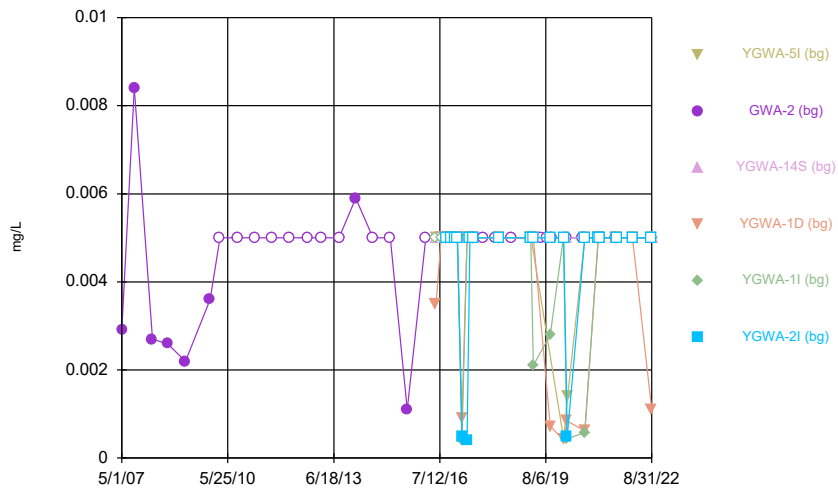
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



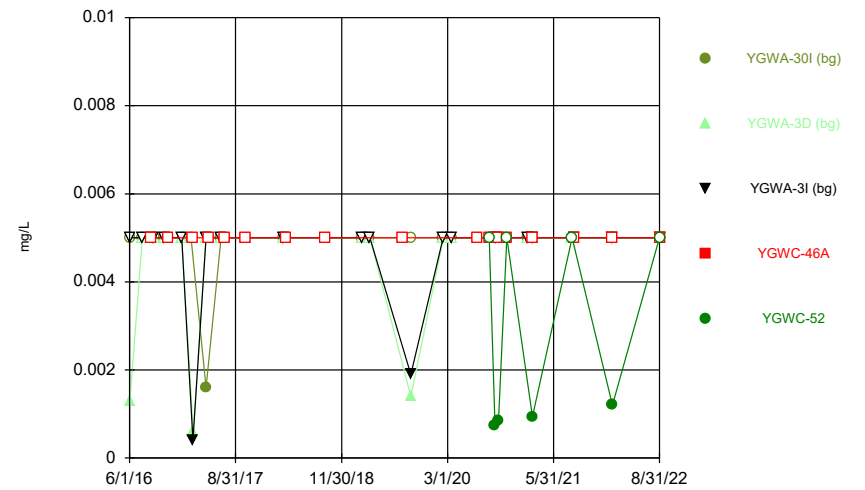
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



Constituent: Chromium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

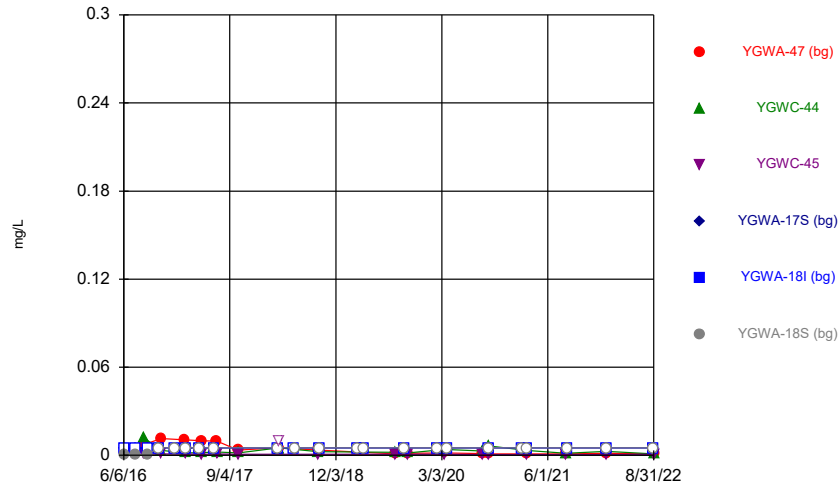
Time Series



Constituent: Chromium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

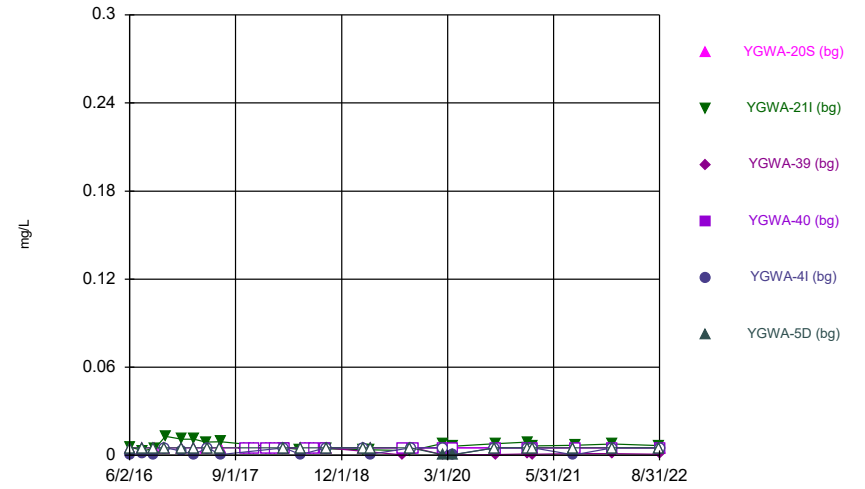


Time Series



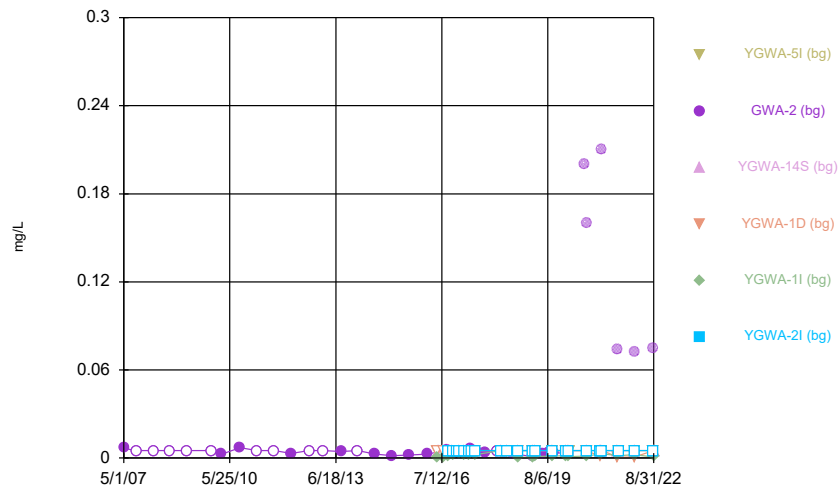
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Time Series



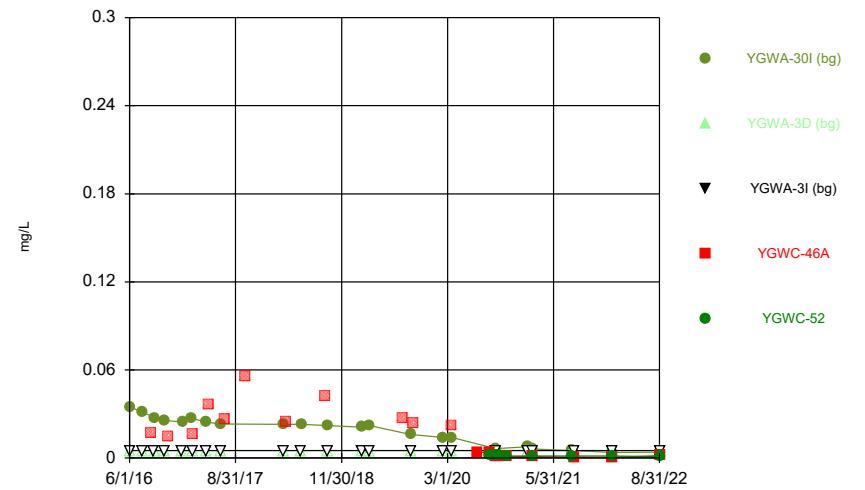
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Time Series



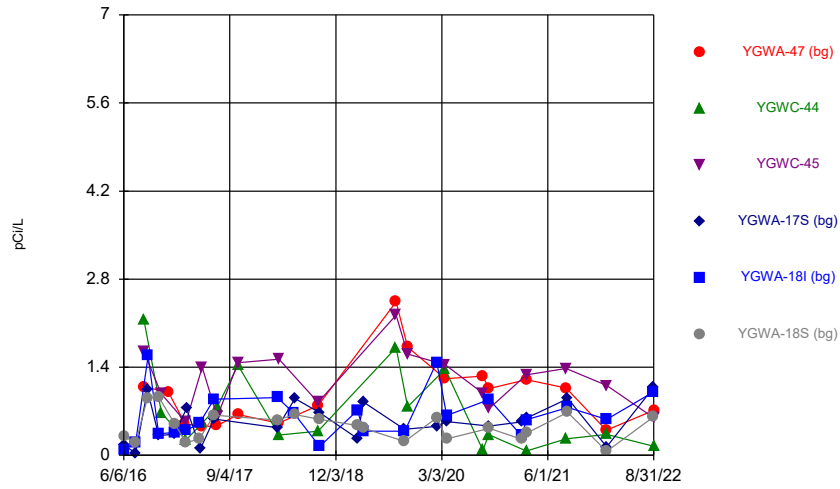
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Time Series



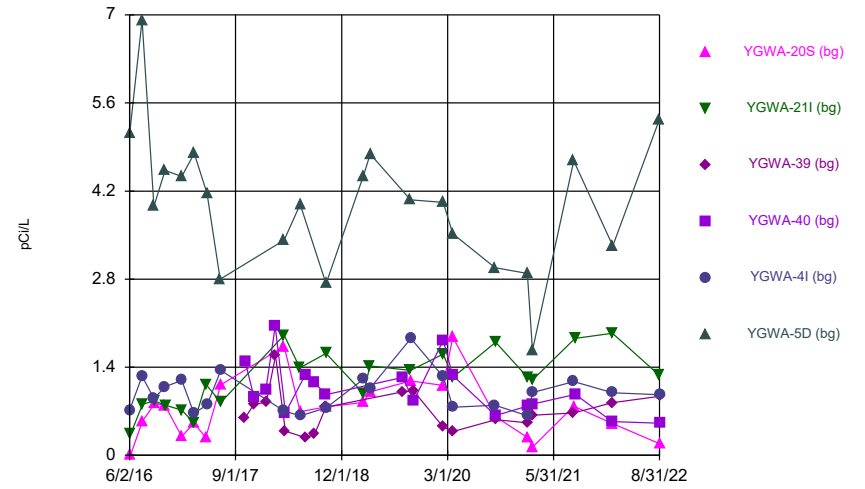
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### Time Series



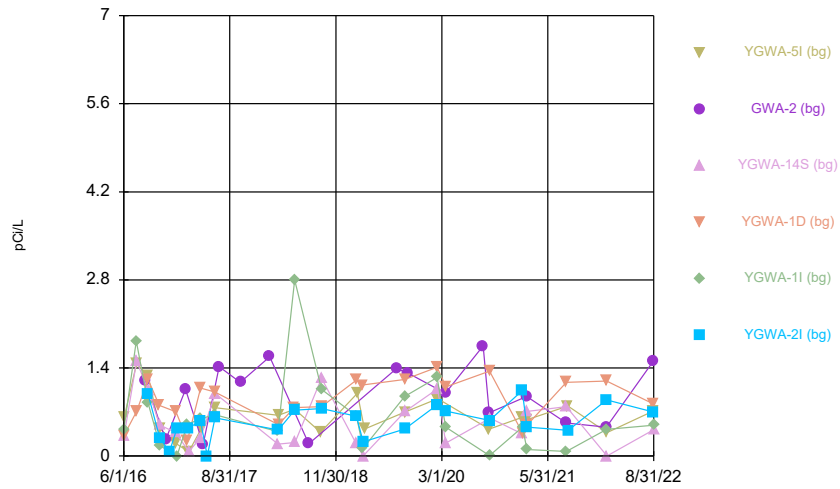
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



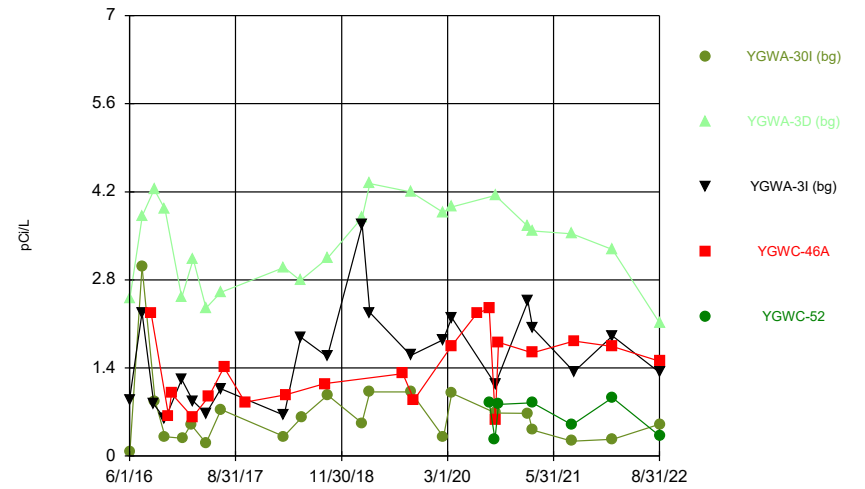
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



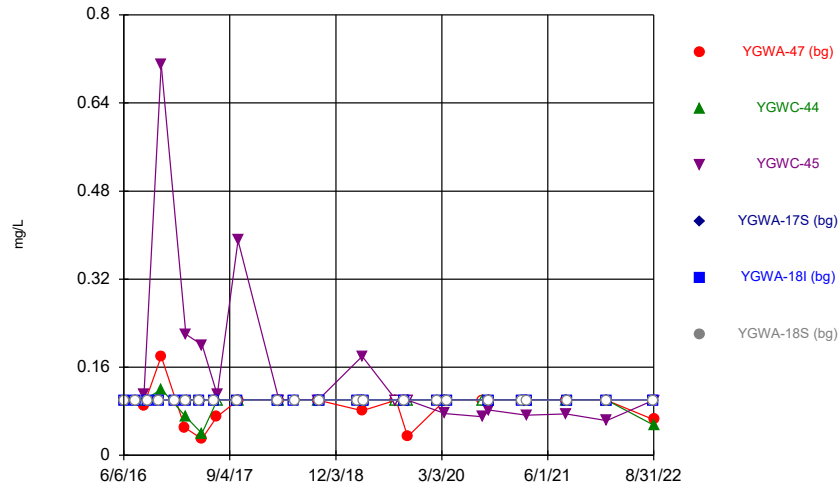
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



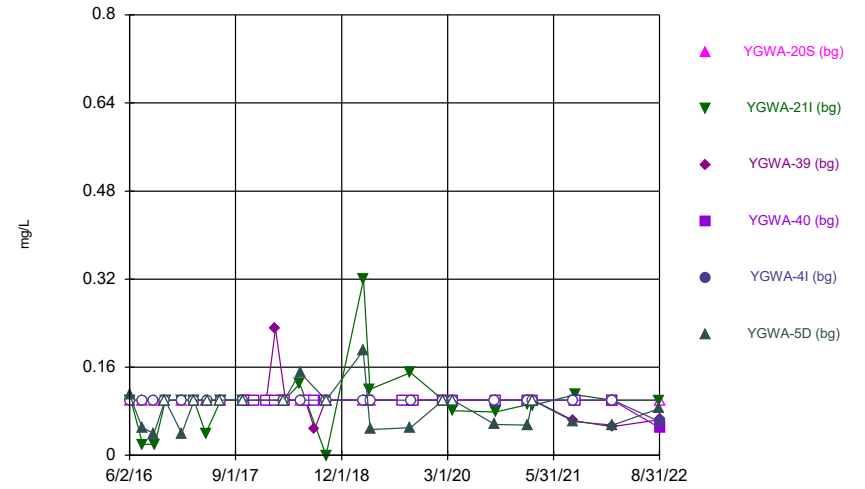
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



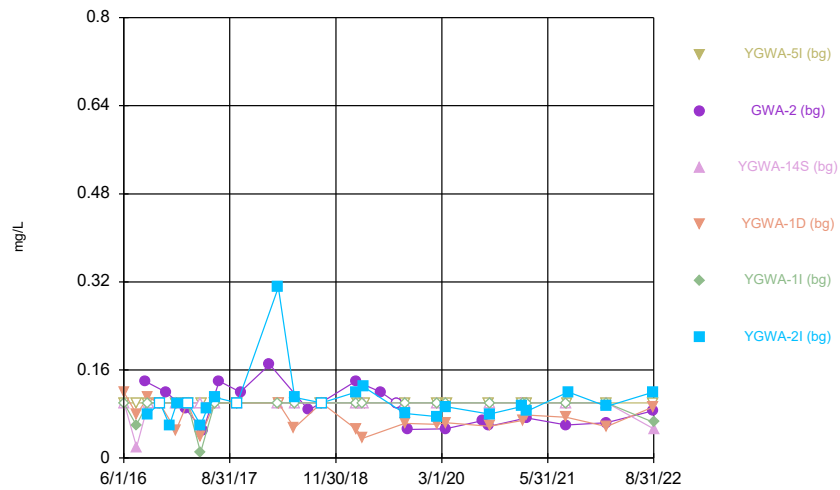
Constituent: Fluoride, total Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



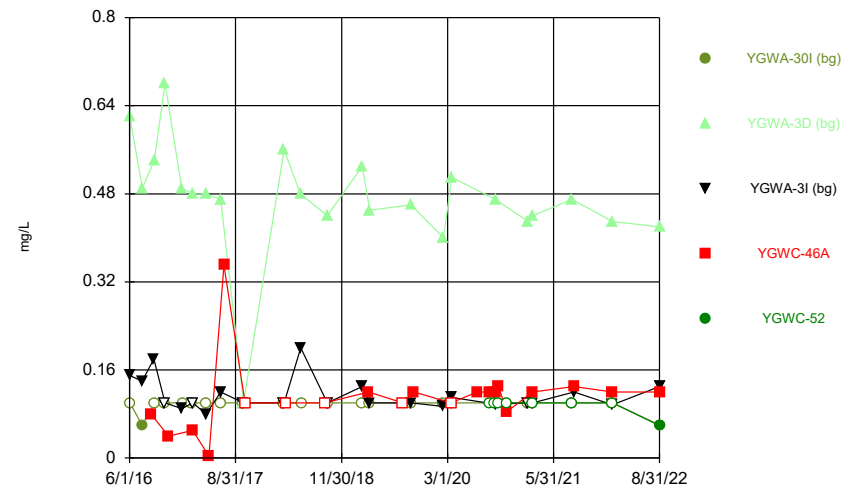
Constituent: Fluoride, total Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



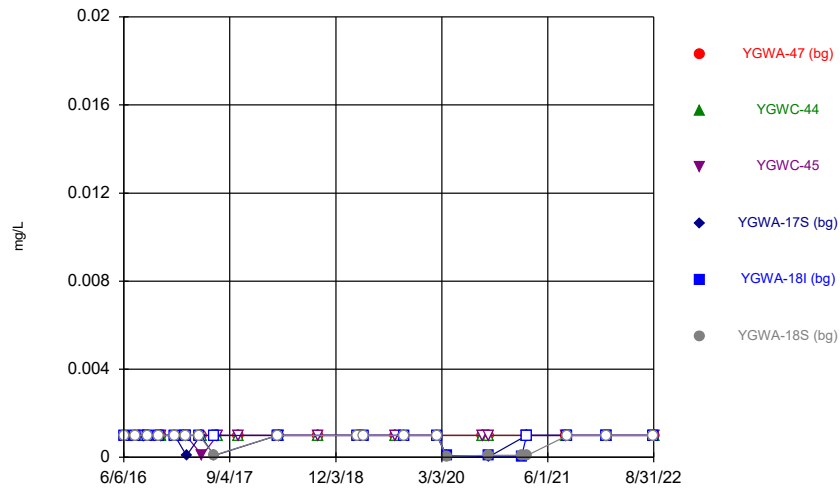
Constituent: Fluoride, total Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



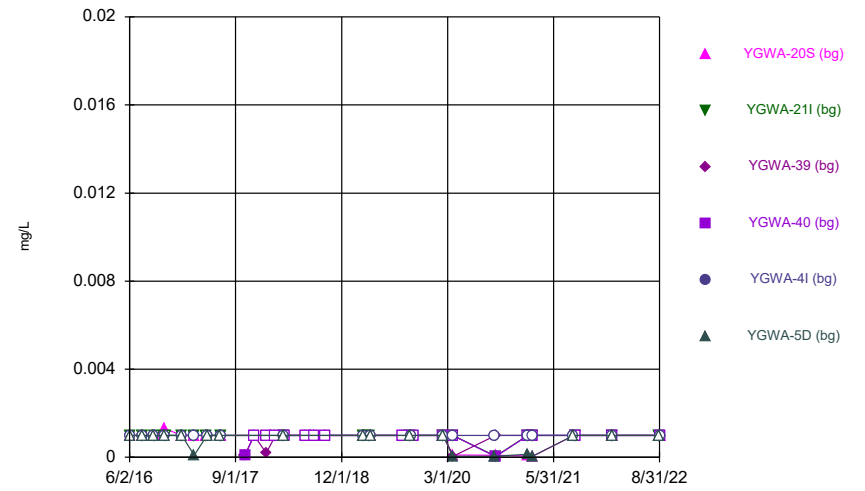
Constituent: Fluoride, total Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



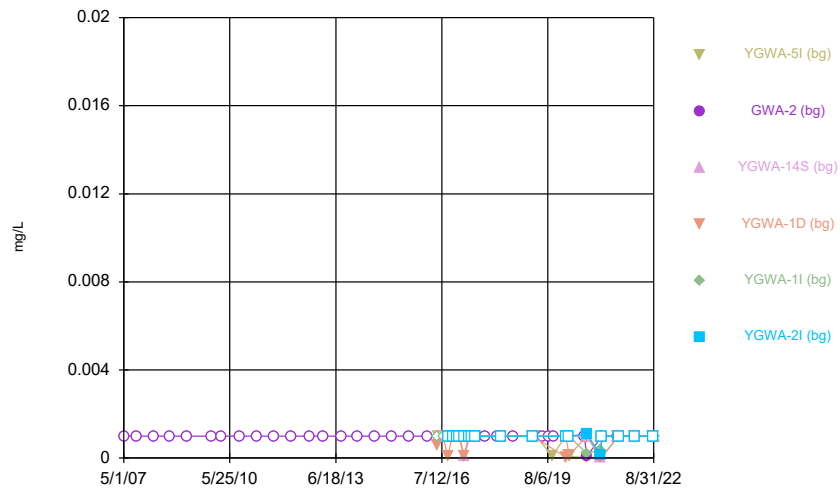
Constituent: Lead Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



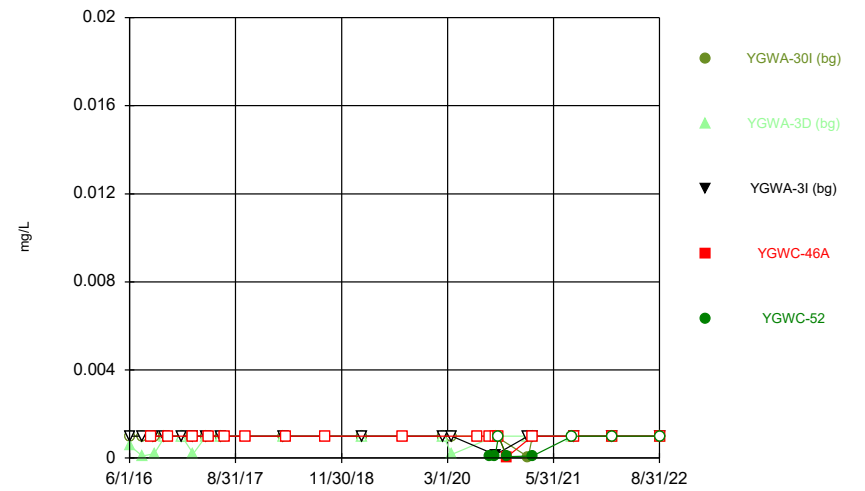
Constituent: Lead Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



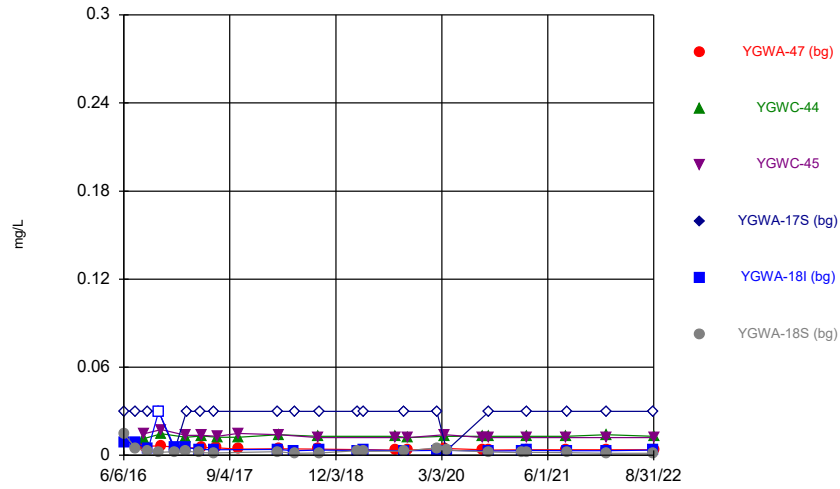
Constituent: Lead Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



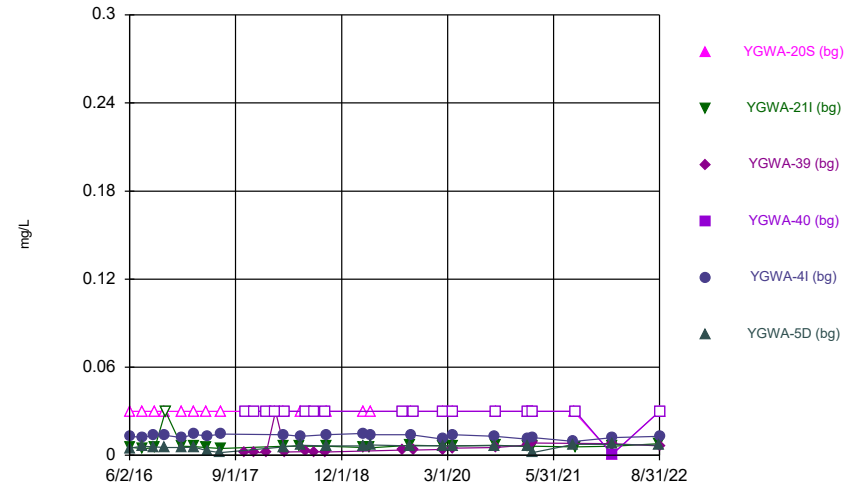
Constituent: Lead Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



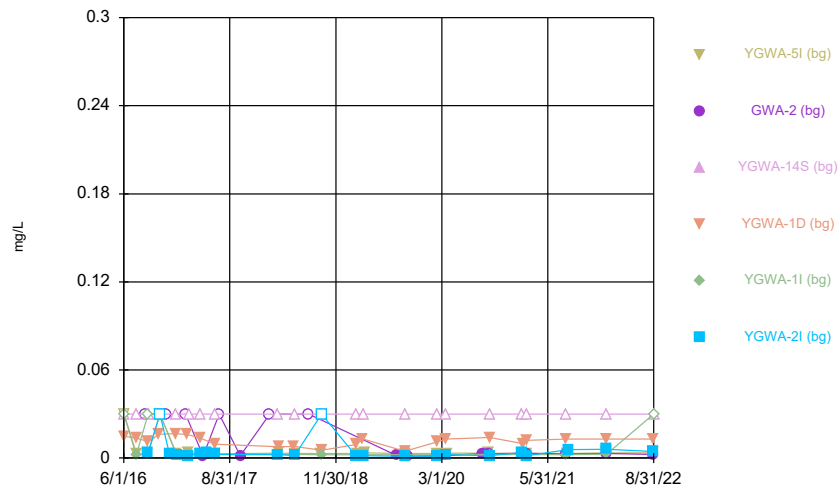
Constituent: Lithium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



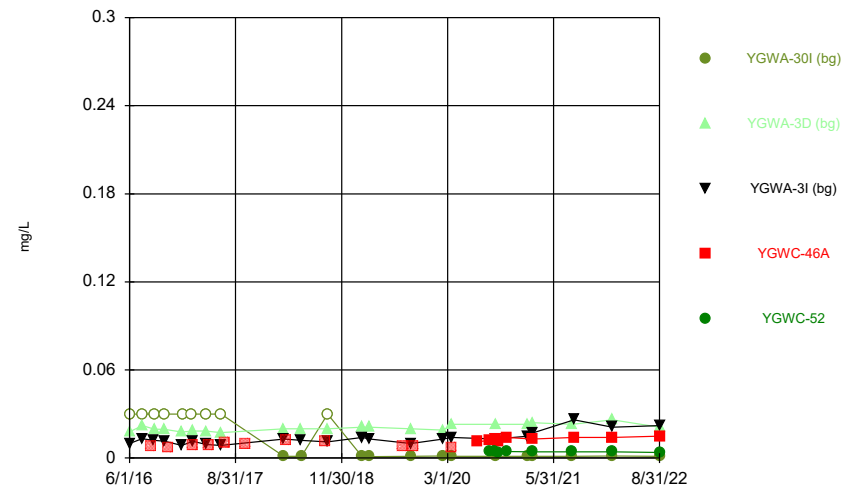
Constituent: Lithium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



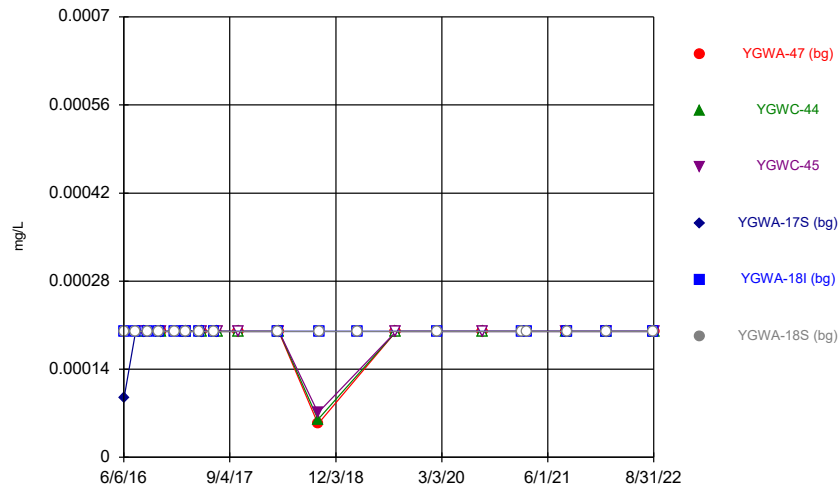
Constituent: Lithium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



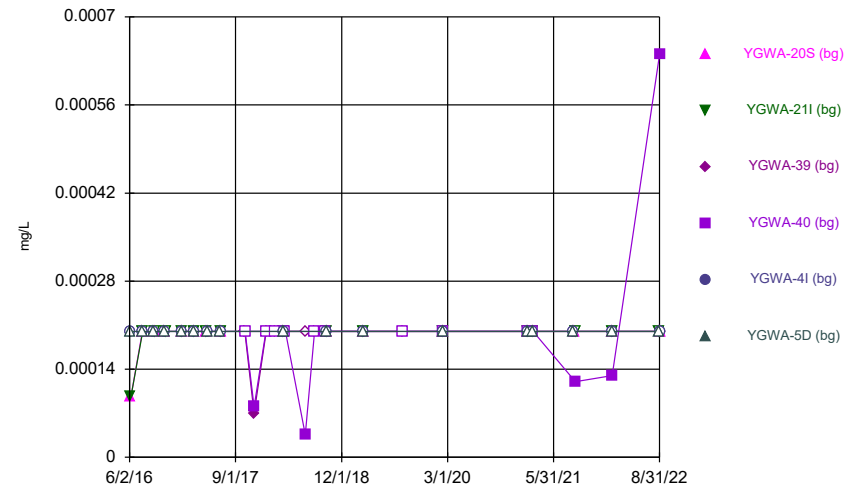
Constituent: Lithium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



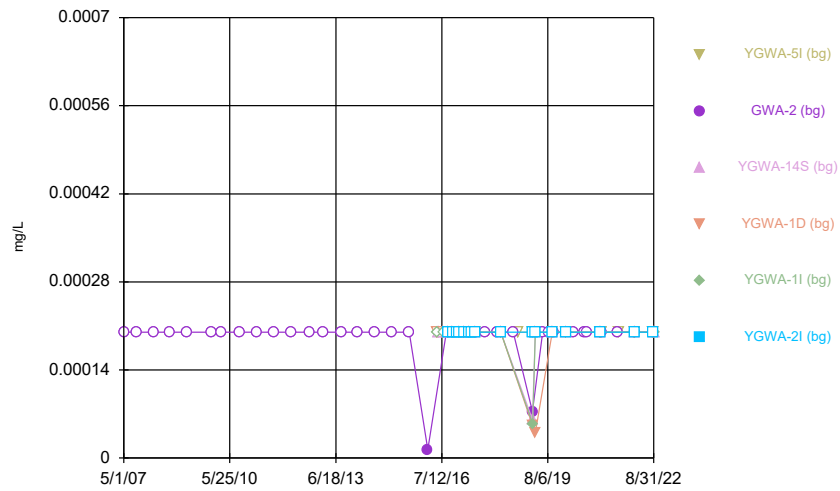
Constituent: Mercury Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



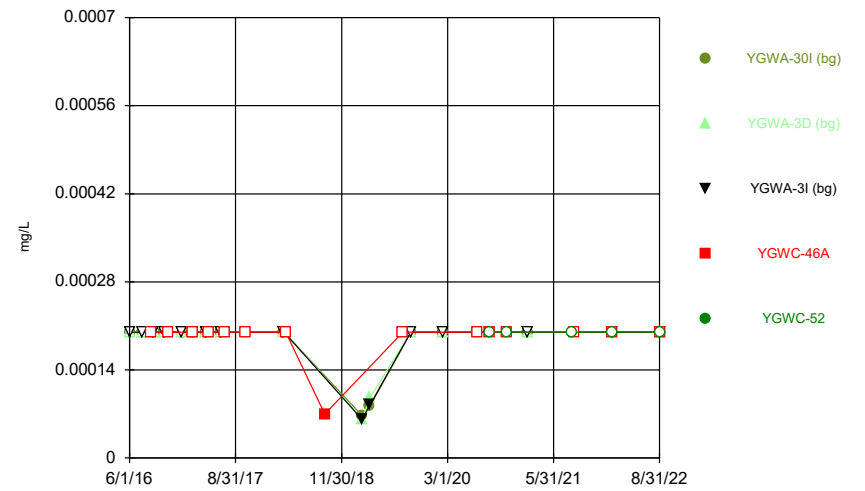
Constituent: Mercury Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



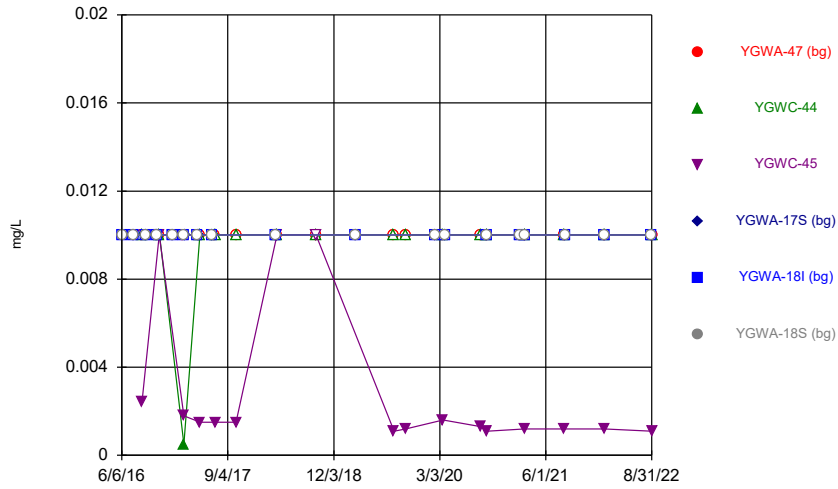
Constituent: Mercury Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



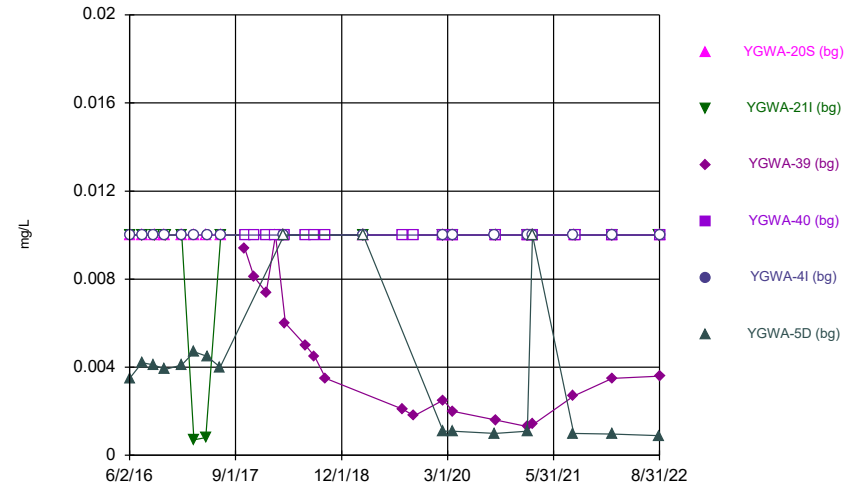
Constituent: Mercury Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



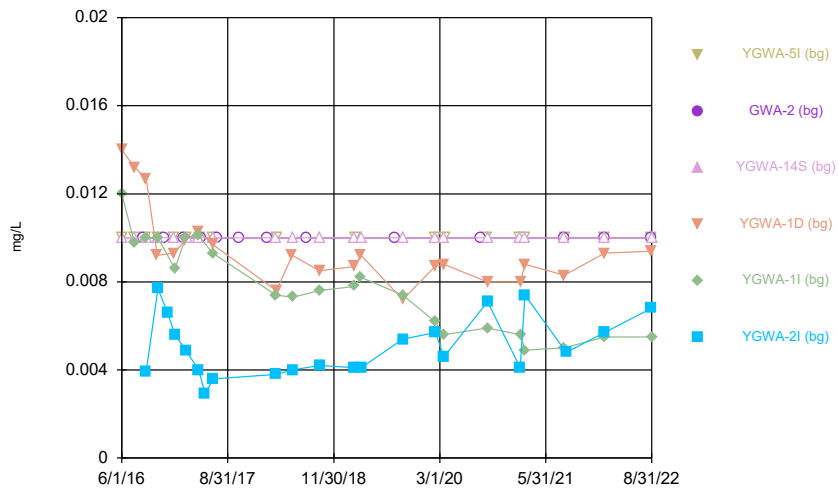
Constituent: Molybdenum Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



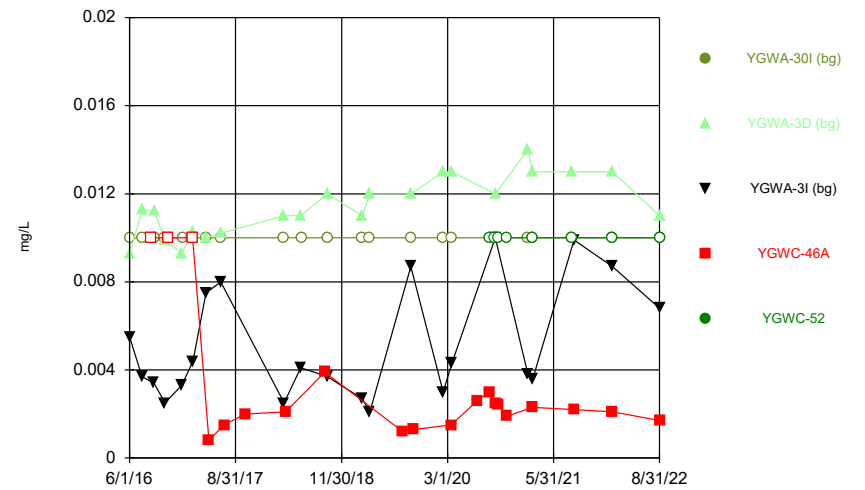
Constituent: Molybdenum Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



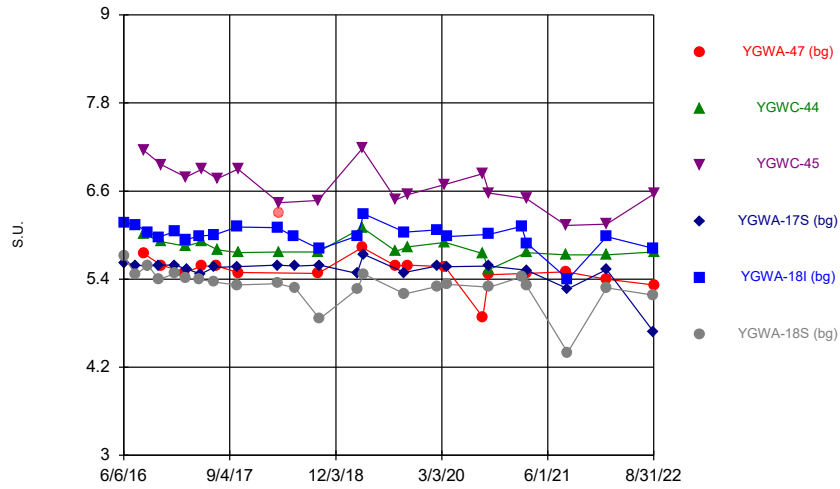
Constituent: Molybdenum Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



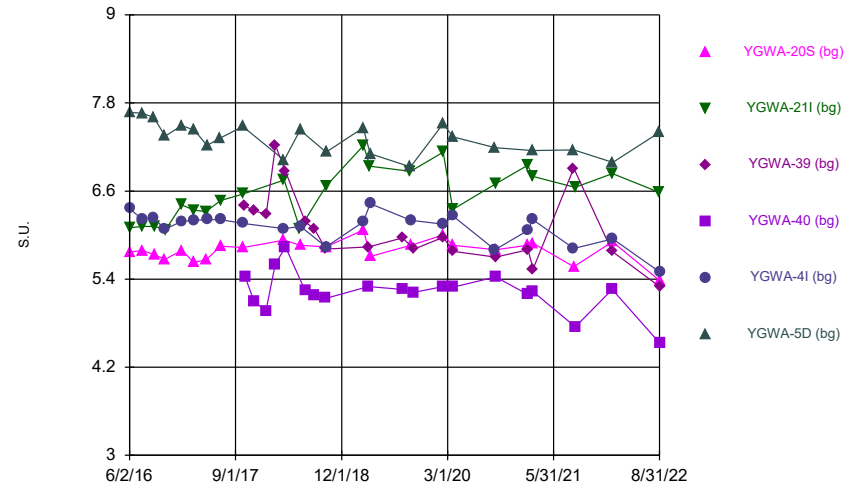
Constituent: Molybdenum Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



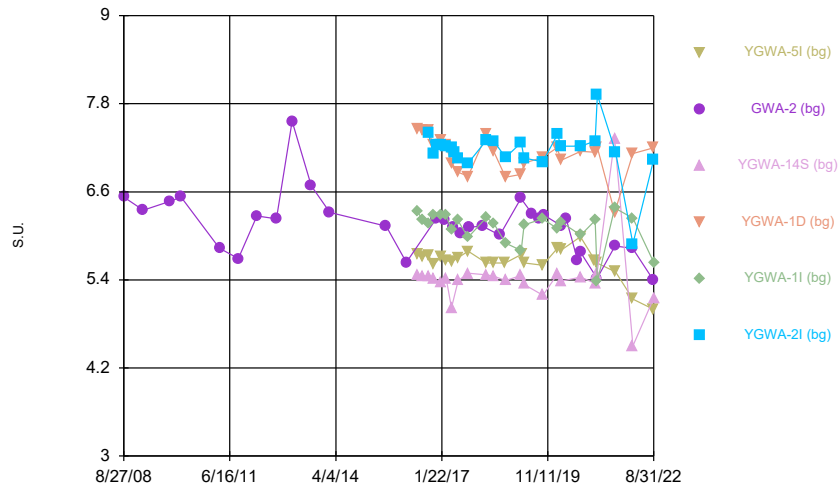
Constituent: pH, Field Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



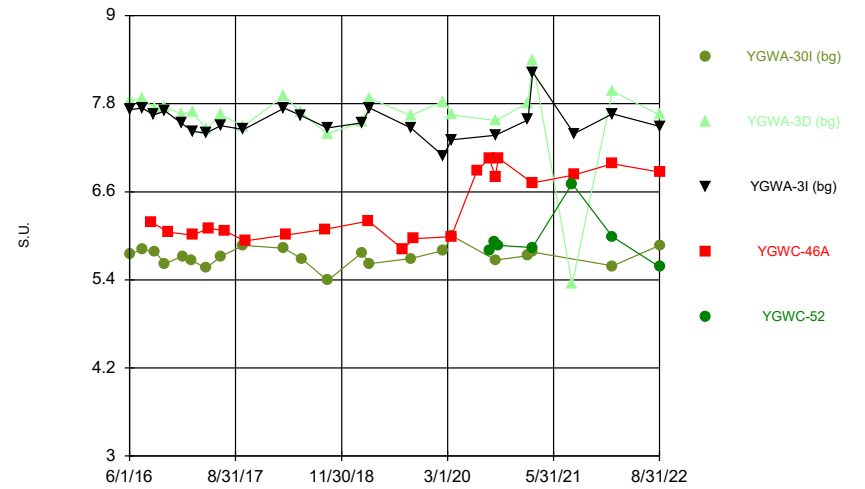
Constituent: pH, Field Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



Constituent: pH, Field Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

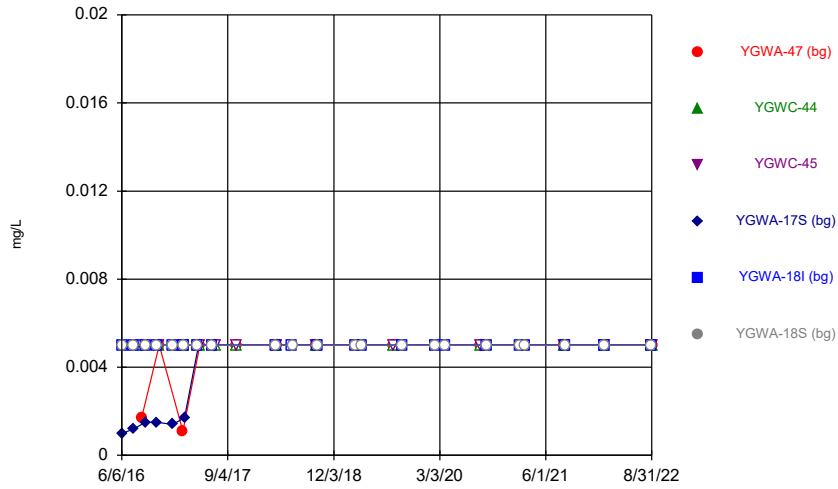
### Time Series



Constituent: pH, Field Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

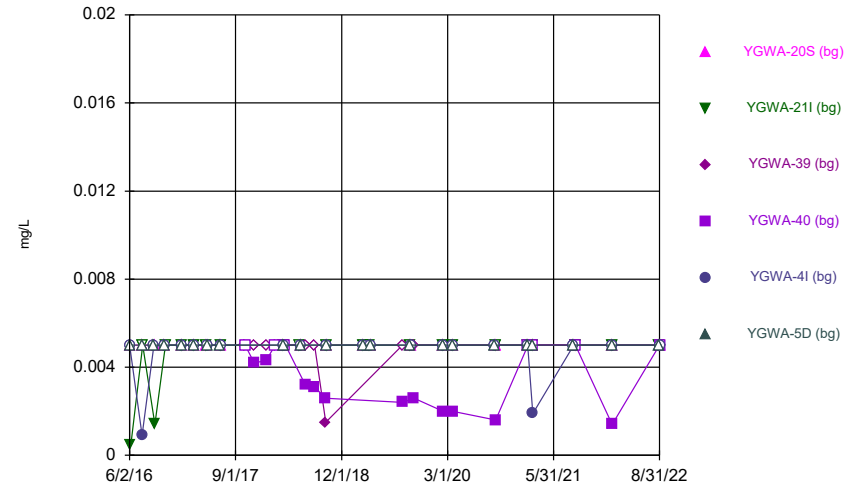


### Time Series



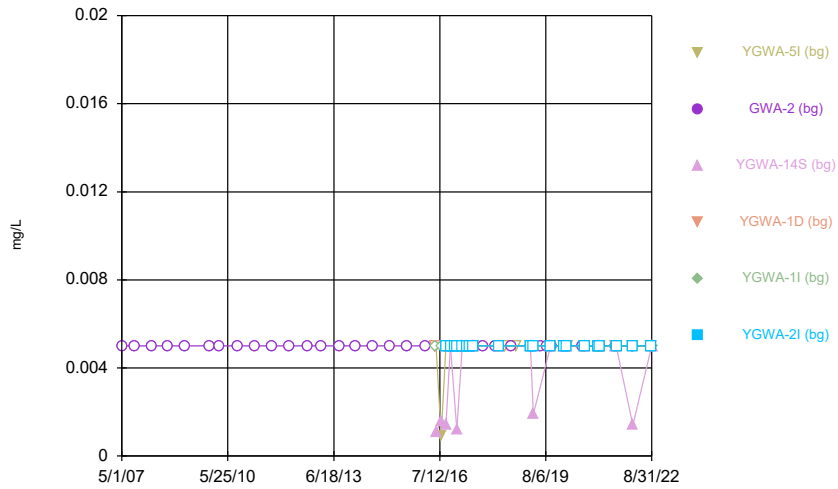
Constituent: Seleniun Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



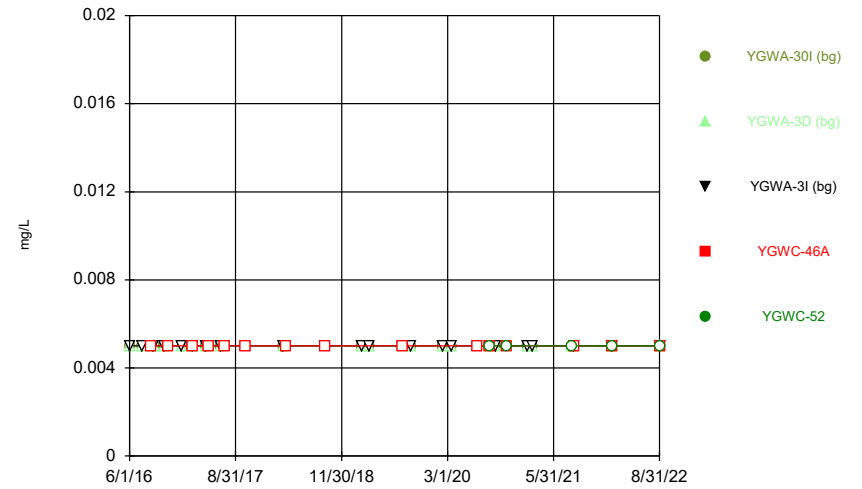
Constituent: Seleniun Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



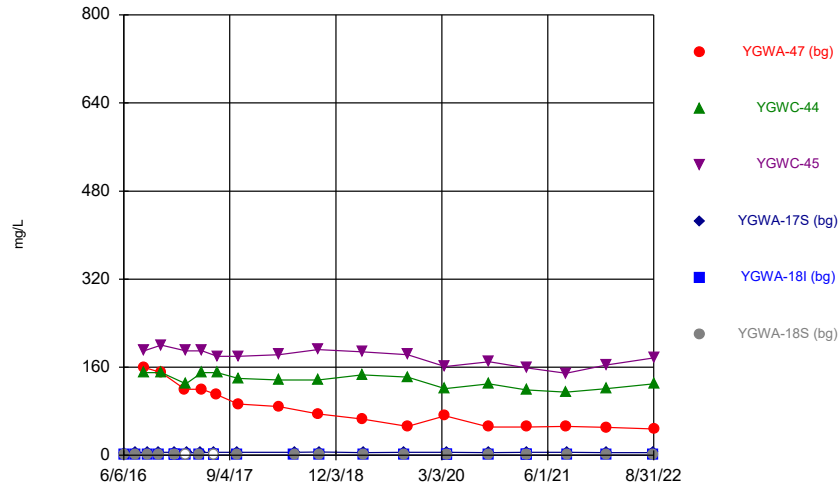
Constituent: Seleniun Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Time Series



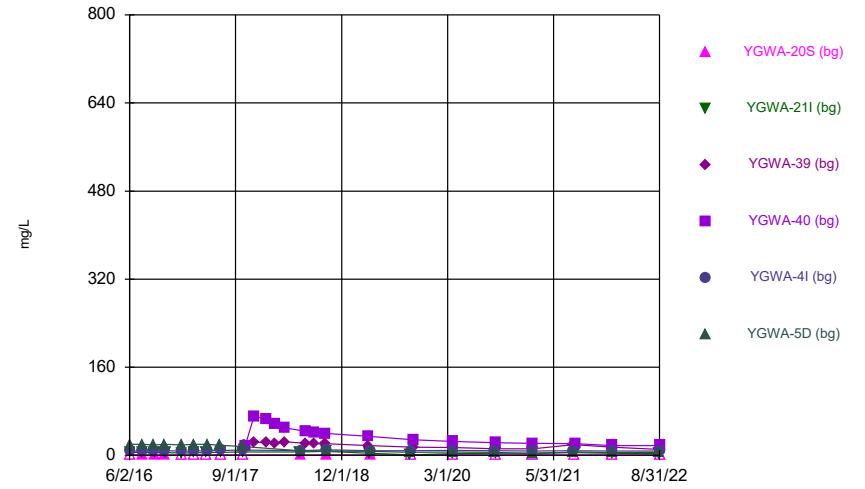
Constituent: Seleniun Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



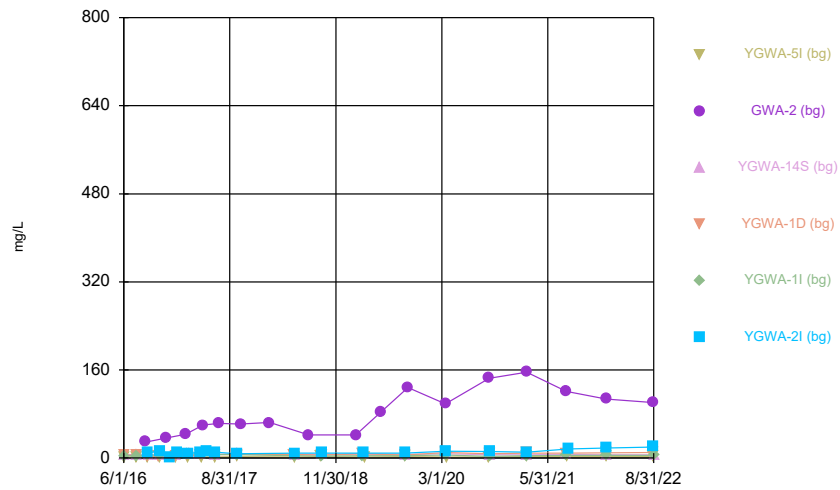
Constituent: Sulfate as SO4 Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



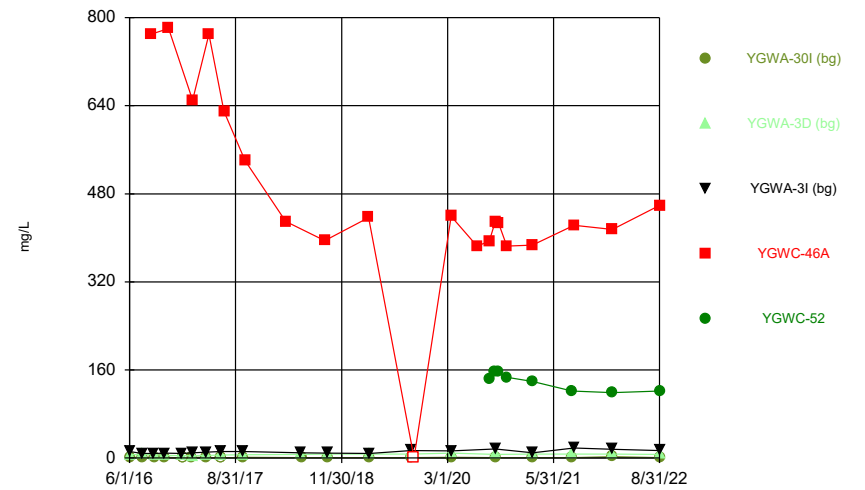
Constituent: Sulfate as SO4 Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



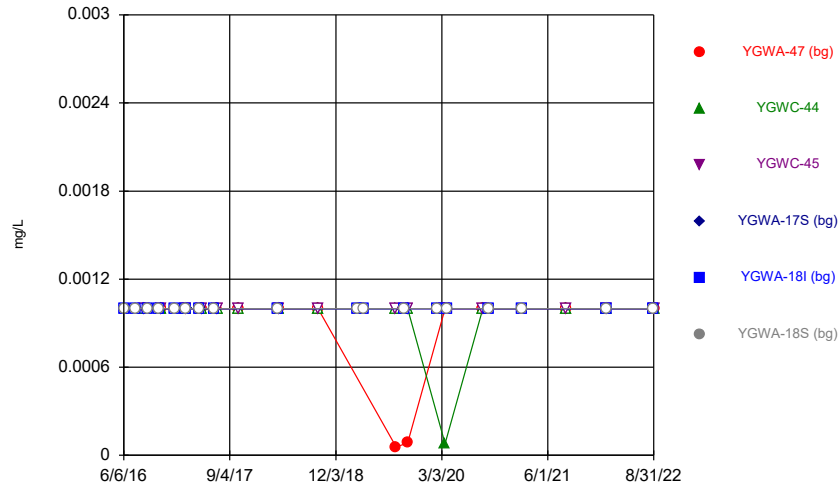
Constituent: Sulfate as SO4 Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



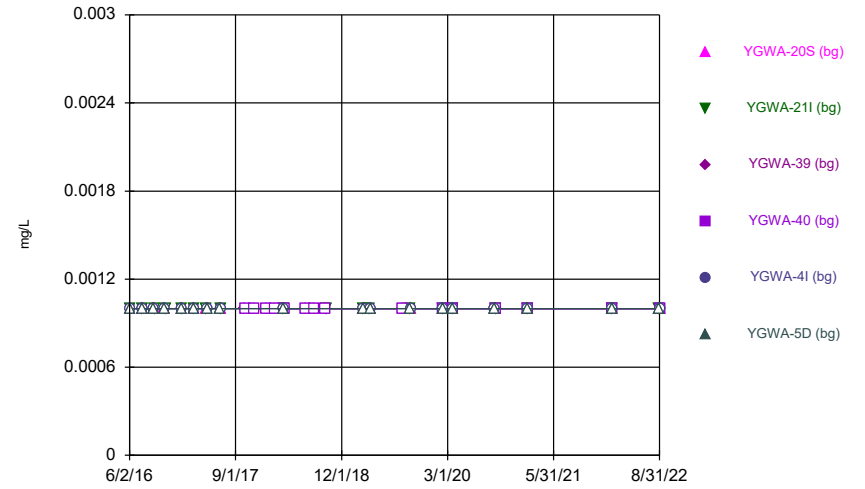
Constituent: Sulfate as SO4 Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



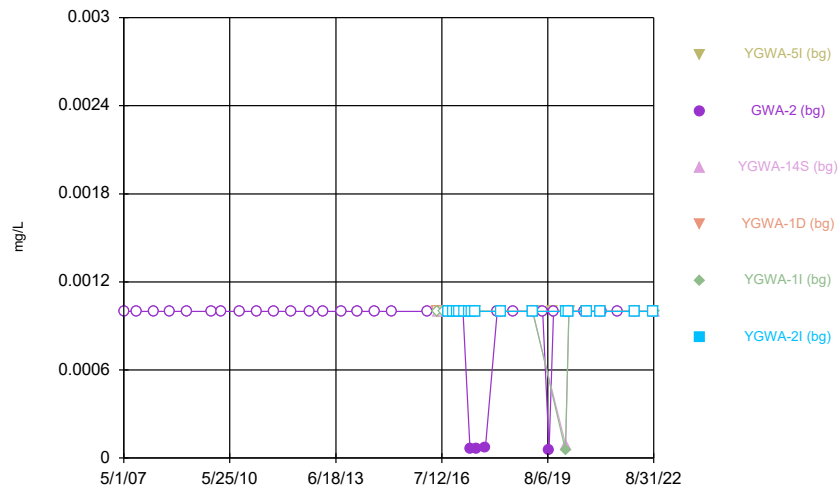
Constituent: Thallium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



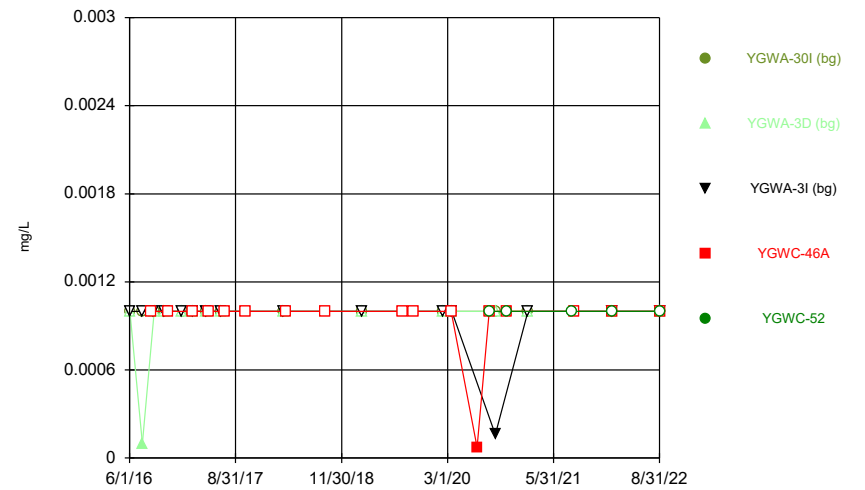
Constituent: Thallium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



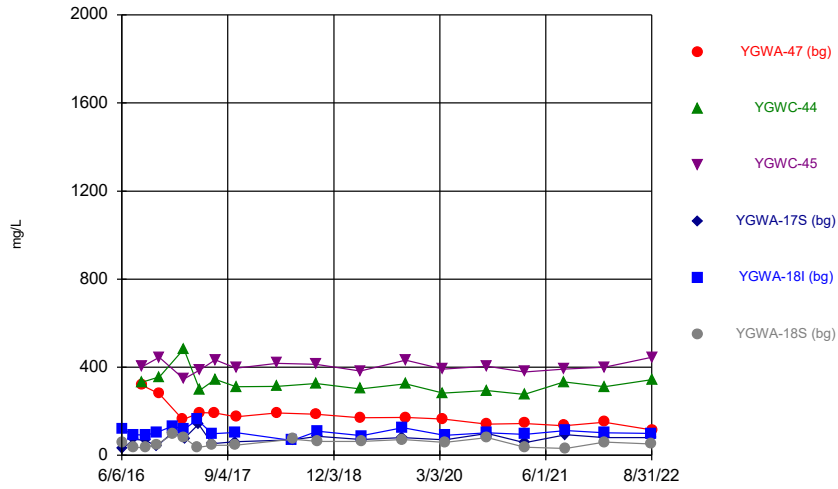
Constituent: Thallium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



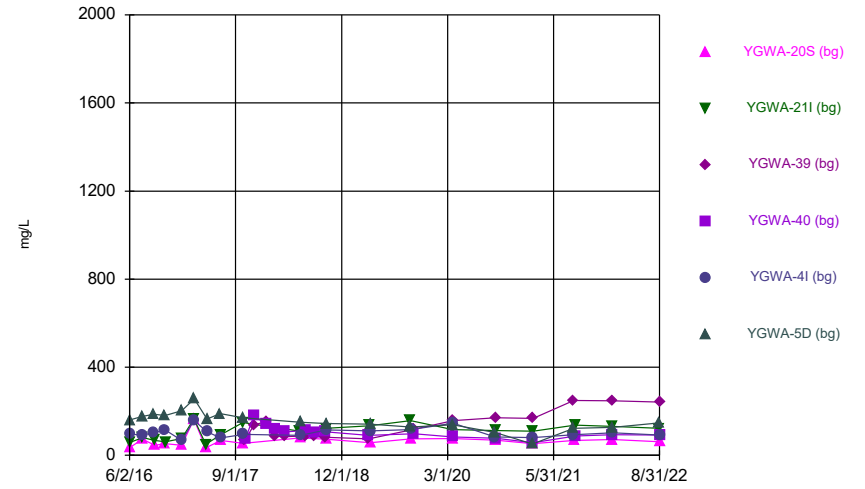
Constituent: Thallium Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



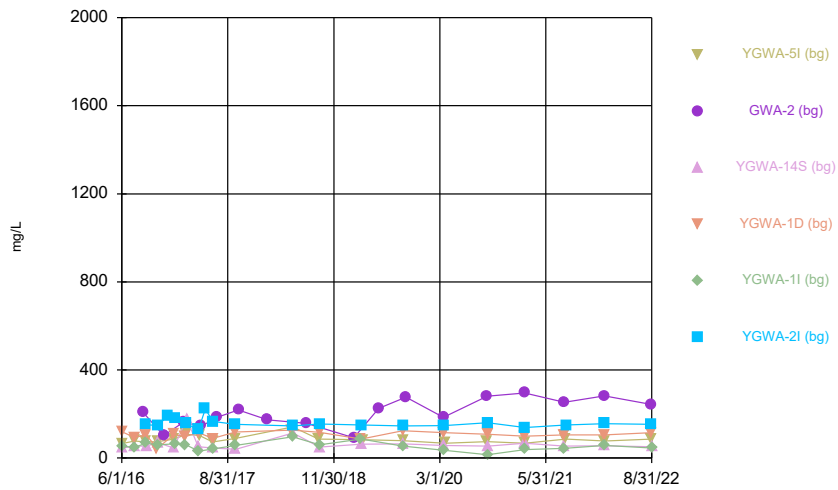
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



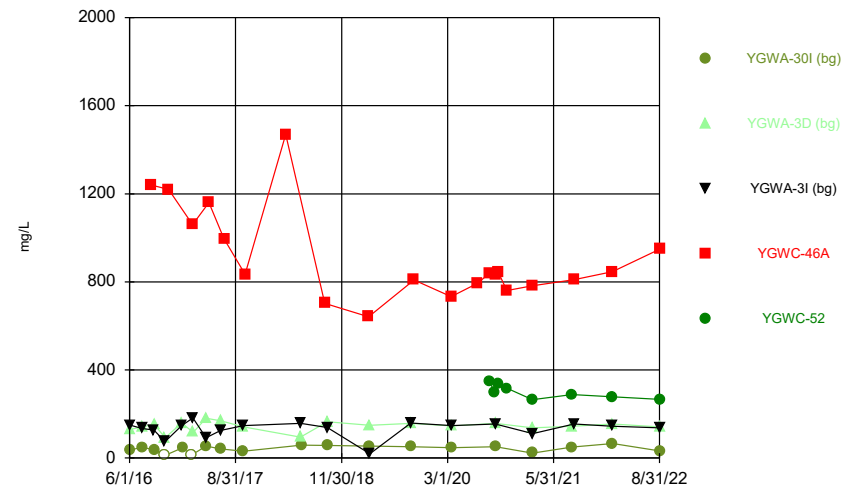
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 4:38 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Time Series



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 4:39 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.003	<0.003
6/7/2016				<0.003		
7/27/2016				<0.003	0.0005 (J)	<0.003
8/30/2016	0.0028 (J)					
8/31/2016		<0.003	<0.003			
9/16/2016				<0.003		<0.003
9/19/2016					<0.003	
11/3/2016				<0.003	<0.003	<0.003
11/14/2016	<0.003		<0.003			
11/15/2016		<0.003				
1/11/2017				<0.003	<0.003	<0.003
2/24/2017	<0.003					
2/27/2017			<0.003			
2/28/2017		<0.003				
3/1/2017					<0.003	<0.003
3/2/2017				<0.003		
4/26/2017					<0.003	<0.003
5/2/2017				<0.003		
5/8/2017	0.0004 (J)	<0.003				
5/9/2017			<0.003			
6/28/2017					<0.003	<0.003
6/29/2017				<0.003		
7/11/2017	0.0006 (J)					
7/13/2017		<0.003	<0.003			
10/10/2017	<0.003	<0.003	<0.003			
3/28/2018				<0.003	<0.003	<0.003
4/2/2018	<0.003					
4/3/2018			<0.003			
4/4/2018		<0.003				
9/19/2018	<0.003	<0.003	<0.003			
3/5/2019				<0.003		<0.003
3/6/2019					<0.003	
4/2/2019				<0.003		
4/3/2019					<0.003	<0.003
8/20/2019	<0.003	<0.003	<0.003			
9/25/2019				<0.003		
9/26/2019					0.00056 (J)	<0.003
2/11/2020				<0.003	<0.003	<0.003
3/24/2020				<0.003	<0.003	<0.003
8/27/2020	0.00048 (J)	<0.003				
8/28/2020			0.0017 (J)			
9/22/2020	<0.003	<0.003				
9/23/2020			<0.003	<0.003	<0.003	<0.003
2/9/2021					<0.003	<0.003
3/1/2021	0.00048 (J)	<0.003	<0.003			
3/3/2021				<0.003	<0.003	0.00067 (J)
8/19/2021	<0.003	<0.003	<0.003			
8/26/2021						<0.003
8/27/2021				<0.003	<0.003	
2/8/2022	<0.003					
2/9/2022		<0.003	<0.003	<0.003	<0.003	<0.003
8/30/2022				<0.003	<0.003	<0.003

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/31/2022	<0.003	<0.003	<0.003			

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.003	<0.003
6/7/2016	<0.003	<0.003				
7/26/2016					0.0003 (J)	<0.003
7/27/2016	<0.003					
7/28/2016		<0.003				
9/14/2016					<0.003	<0.003
9/19/2016	<0.003	0.001 (J)				
11/2/2016	<0.003				<0.003	<0.003
11/3/2016		<0.003				
1/12/2017						<0.003
1/13/2017	<0.003	<0.003			<0.003	
3/6/2017	<0.003	0.0005 (J)			<0.003	
3/7/2017						<0.003
4/26/2017	<0.003	<0.003				
5/1/2017					<0.003	<0.003
6/27/2017						<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			
3/29/2018	<0.003	<0.003			<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		
3/4/2019					<0.003	<0.003
3/5/2019	<0.003	0.0011 (J)				
4/2/2019		0.0011 (J)				
4/3/2019	<0.003				<0.003	<0.003
8/21/2019			<0.003	<0.003		
9/24/2019		0.0035				<0.003
9/25/2019	<0.003				<0.003	
2/12/2020	<0.003	0.0015 (J)	<0.003	<0.003	<0.003	<0.003
3/24/2020	<0.003	0.0017 (J)		<0.003		<0.003
3/25/2020			0.0014 (J)		<0.003	
9/22/2020					<0.003	<0.003
9/24/2020	<0.003	0.0047	<0.003	<0.003		
2/8/2021						<0.003
2/9/2021	0.00032 (J)	0.0013 (J)			<0.003	
2/10/2021			<0.003	<0.003		
3/2/2021						<0.003
3/3/2021	<0.003				<0.003	
3/4/2021		0.0014 (J)	<0.003	<0.003		
8/26/2021			<0.003		<0.003	<0.003
8/27/2021	<0.003	<0.003				
9/1/2021		<0.003				
9/3/2021				<0.003		
2/8/2022			<0.003	<0.003		

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/9/2022	<0.003	<0.003				
2/10/2022						<0.003
2/11/2022					<0.003	
8/30/2022		0.0046				<0.003
8/31/2022	<0.003		<0.003	<0.003	<0.003	



# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.003				
9/11/2007		<0.003				
3/20/2008		<0.003				
8/27/2008		<0.003				
3/3/2009		<0.003				
11/18/2009		<0.003				
3/3/2010		<0.003				
9/8/2010		<0.003				
3/10/2011		<0.003				
9/8/2011		<0.003				
3/5/2012		<0.003				
9/10/2012		<0.003				
2/6/2013		<0.003				
8/12/2013		<0.003				
2/5/2014		<0.003				
8/5/2014		<0.003				
2/4/2015		<0.003				
8/3/2015		<0.003				
2/16/2016		<0.003				
6/1/2016				<0.003	<0.003	
6/2/2016	<0.003		<0.003			
7/25/2016					<0.003	
7/26/2016	<0.003		0.0005 (J)	0.001 (J)		
8/31/2016		<0.003				
9/13/2016				0.001 (J)	<0.003	
9/14/2016	<0.003					<0.003
9/15/2016			<0.003			
11/1/2016				0.0015 (J)		
11/2/2016			<0.003			
11/4/2016	<0.003				<0.003	<0.003
11/28/2016		0.0014 (J)				
12/15/2016						0.0012 (J)
1/10/2017			<0.003			
1/11/2017				<0.003		
1/12/2017	<0.003					
1/16/2017					<0.003	<0.003
2/22/2017		<0.003				
3/2/2017				0.0004 (J)	<0.003	
3/3/2017						<0.003
3/7/2017	<0.003					
3/8/2017			<0.003			
4/26/2017			<0.003			
4/27/2017				0.0004 (J)	0.0017 (J)	
4/28/2017						0.0015 (J)
5/2/2017	<0.003					
5/8/2017		<0.003				
5/26/2017						0.0005 (J)
6/27/2017	<0.003			<0.003	<0.003	
6/28/2017						<0.003
6/30/2017			<0.003			
7/17/2017		<0.003				
10/16/2017		<0.003				

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.003				
3/27/2018			<0.003		<0.003	
3/28/2018						<0.003
3/29/2018	<0.003			<0.003		
8/6/2018		<0.003				
2/25/2019		<0.003				
2/26/2019			<0.003			
2/27/2019				<0.003	<0.003	<0.003
3/4/2019	<0.003					
4/3/2019	<0.003					
6/12/2019		<0.003				
8/19/2019		<0.003				
9/24/2019	<0.003					
10/8/2019		<0.003				
2/10/2020				0.00088 (J)	<0.003	
2/11/2020						0.00036 (J)
2/12/2020	<0.003		<0.003			
3/17/2020		<0.003				
3/18/2020			<0.003		0.0004 (J)	
3/19/2020				<0.003		0.0003 (J)
3/24/2020	<0.003					
8/26/2020		0.00042 (J)				
9/22/2020	<0.003	0.00044 (J)				
9/23/2020				<0.003	<0.003	<0.003
9/25/2020			<0.003			
2/8/2021	<0.003					
2/10/2021			<0.003			0.0013 (J)
2/12/2021				<0.003	<0.003	
3/2/2021	<0.003	<0.003	<0.003			
3/3/2021				<0.003	<0.003	<0.003
8/19/2021			<0.003	<0.003	<0.003	
8/20/2021		<0.003				
8/26/2021	<0.003					
8/27/2021						<0.003
2/8/2022		<0.003				
2/9/2022				<0.003	<0.003	<0.003
2/10/2022	<0.003		<0.003			
8/30/2022	<0.003	<0.003		<0.003		<0.003
8/31/2022			<0.003		<0.003	

# Time Series

Constituent: Antimony (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.003		
6/2/2016	<0.003	<0.003			
7/25/2016	<0.003		<0.003		
7/26/2016		0.002 (J)			
9/1/2016				<0.003	
9/14/2016			<0.003		
9/15/2016		0.0027 (J)			
9/19/2016	<0.003				
11/1/2016	<0.003	<0.003	<0.003		
11/16/2016				<0.003	
1/11/2017		<0.003	<0.003		
1/16/2017	<0.003				
2/21/2017	<0.003				
2/27/2017				<0.003	
3/1/2017			<0.003		
3/2/2017		0.0008 (J)			
4/26/2017	<0.003	<0.003	<0.003		
5/8/2017				<0.003	
6/28/2017		<0.003	<0.003		
6/30/2017	<0.003				
7/13/2017				<0.003	
10/11/2017				<0.003	
3/27/2018	<0.003				
3/28/2018		<0.003	<0.003		
4/4/2018				<0.003	
9/19/2018				<0.003	
2/26/2019	<0.003				
2/27/2019		<0.003	<0.003		
8/21/2019				<0.003	
2/11/2020			<0.003		
2/12/2020	<0.003	<0.003			
3/19/2020	<0.003	0.00064 (J)	<0.003		
7/6/2020				<0.003	
8/27/2020					<0.003
8/28/2020				0.00029 (J)	
9/22/2020					<0.003
9/23/2020		<0.003	<0.003	<0.003	
9/24/2020	<0.003				
10/7/2020				<0.003	<0.003
11/12/2020				<0.003	<0.003
2/10/2021		<0.003	<0.003		
2/11/2021	<0.003				
3/1/2021	<0.003				<0.003
3/2/2021				<0.003	
3/3/2021		<0.003	<0.003		
8/19/2021	<0.003	<0.003			
8/20/2021					<0.003
8/27/2021			<0.003	<0.003	
2/9/2022		0.0018 (J)	<0.003	<0.003	<0.003
2/11/2022	<0.003				
8/31/2022	<0.003	<0.003	<0.003	<0.003	<0.003

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.005	<0.005
6/7/2016				<0.005		
7/27/2016				<0.005	<0.005	<0.005
8/30/2016	<0.005					
8/31/2016		<0.005	<0.005			
9/16/2016				<0.005		<0.005
9/19/2016					<0.005	
11/3/2016				<0.005	<0.005	<0.005
11/14/2016	<0.005		<0.005			
11/15/2016		<0.005				
1/11/2017				<0.005	<0.005	<0.005
2/24/2017	<0.005					
2/27/2017			<0.005			
2/28/2017		0.0005 (J)				
3/1/2017					<0.005	<0.005
3/2/2017				<0.005		
4/26/2017					<0.005	<0.005
5/2/2017				<0.005		
5/8/2017	<0.005	0.0006 (J)				
5/9/2017			<0.005			
6/28/2017					<0.005	<0.005
6/29/2017				<0.005		
7/11/2017	<0.005					
7/13/2017		<0.005	<0.005			
10/10/2017	0.0007 (J)	0.0007 (J)	0.0006 (J)			
3/28/2018				<0.005	<0.005	0.00061 (J)
4/2/2018	<0.005					
4/3/2018			0.00061 (J)			
4/4/2018		<0.005				
6/7/2018					0.00066 (J)	
6/11/2018				<0.005		<0.005
9/19/2018	0.00072 (J)	0.00086 (J)	0.00072 (J)			
9/25/2018				<0.005	<0.005	<0.005
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
4/2/2019				<0.005		
4/3/2019					<0.005	<0.005
8/20/2019	<0.005	0.00097 (J)	0.00078 (J)			
9/25/2019				<0.005		
9/26/2019					<0.005	<0.005
10/8/2019	<0.005	<0.005				
10/9/2019			<0.005			
2/11/2020				0.0022 (J)	0.0014 (J)	0.0026 (J)
3/17/2020	<0.005	<0.005	<0.005			
3/24/2020				<0.005	<0.005	<0.005
8/27/2020	<0.005	<0.005				
8/28/2020			<0.005			
9/22/2020	<0.005	<0.005				
9/23/2020			<0.005	<0.005	<0.005	<0.005
2/9/2021					<0.005	<0.005
3/1/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	<0.005	<0.005	<0.005			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	0.0027 (J)					
2/9/2022		<0.005	<0.005	0.0024 (J)	0.0022 (J)	0.0024 (J)
8/30/2022				<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005			

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.005	0.00071 (J)
6/7/2016	<0.005	<0.005				
7/26/2016					<0.005	0.001 (J)
7/27/2016	<0.005					
7/28/2016		<0.005				
9/14/2016					<0.005	<0.005
9/19/2016	<0.005	<0.005				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		<0.005				
1/12/2017						<0.005
1/13/2017	<0.005	<0.005			<0.005	
3/6/2017	<0.005	0.0017 (J)			<0.005	
3/7/2017						0.0012 (J)
4/26/2017	<0.005	<0.005				
5/1/2017					<0.005	<0.005
6/27/2017						0.0019 (J)
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			
3/29/2018	<0.005	0.0015 (J)			<0.005	0.0006 (J)
4/3/2018			<0.005	<0.005		
6/5/2018		0.0013 (J)				
6/6/2018	<0.005					0.0013 (J)
6/7/2018					0.00059 (J)	
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	0.0022 (J)				
9/26/2018					<0.005	0.0014 (J)
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	0.0013 (J)				
4/2/2019		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)				0.00043 (J)
9/25/2019	<0.005				<0.005	
10/9/2019			0.00063 (J)	<0.005		
2/12/2020	<0.005	0.0025 (J)	0.00058 (J)	0.0034 (J)	<0.005	0.0046 (J)
3/24/2020	<0.005	0.0013 (J)		<0.005		0.00065 (J)
3/25/2020			0.0012 (J)		<0.005	
9/22/2020					<0.005	0.001 (J)
9/24/2020	<0.005	0.0014 (J)	<0.005	<0.005		
2/8/2021						<0.005
2/9/2021	<0.005	0.001 (J)			<0.005	
2/10/2021			<0.005	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.00078 (J)	<0.005	<0.005		
8/26/2021			<0.005		<0.005	0.0016 (J)
8/27/2021	<0.005					
9/1/2021		<0.005				
9/3/2021				<0.005		
2/8/2022			0.0034 (J)	0.003 (J)		
2/9/2022	0.0021 (J)	0.0036 (J)				
2/10/2022						0.004 (J)
2/11/2022					0.0014 (J)	
8/30/2022		0.0022 (J)				0.0031 (J)
8/31/2022	<0.005		0.0029 (J)	<0.005	<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.005				
9/11/2007		<0.005				
3/20/2008		<0.005				
8/27/2008		<0.005				
3/3/2009		<0.005				
11/18/2009		<0.005				
3/3/2010		<0.005				
9/8/2010		<0.005				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		<0.005				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		<0.005				
2/5/2014		<0.005				
8/5/2014		<0.005				
2/4/2015		<0.005				
8/3/2015		<0.005				
2/16/2016		<0.005				
6/1/2016				0.0021	<0.005	
6/2/2016	<0.005		<0.005			
7/25/2016					<0.005	
7/26/2016	<0.005		<0.005	0.0016 (J)		
8/31/2016		<0.005				
9/13/2016				<0.005	<0.005	
9/14/2016	<0.005					<0.005
9/15/2016			<0.005			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				<0.005	0.0017 (J)
11/28/2016		<0.005				
12/15/2016						0.0023 (J)
1/10/2017			<0.005			
1/11/2017				0.0017 (J)		
1/12/2017	<0.005					
1/16/2017					<0.005	0.0018 (J)
2/22/2017		<0.005				
3/2/2017				0.0014 (J)	<0.005	
3/3/2017						0.0016 (J)
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				0.0018 (J)	<0.005	
4/28/2017						0.002 (J)
5/2/2017	<0.005					
5/8/2017		<0.005				
5/26/2017						0.0005 (J)
6/27/2017	<0.005			0.0018 (J)	<0.005	
6/28/2017						0.0016 (J)
6/30/2017			<0.005			
7/17/2017		<0.005				
10/16/2017		<0.005				



# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						0.0013 (J)
3/29/2018	<0.005			0.0017 (J)		
6/5/2018				0.0013 (J)		
6/6/2018					<0.005	
6/7/2018	<0.005					0.00082 (J)
6/8/2018			<0.005			
8/6/2018		<0.005				
9/26/2018	<0.005					
10/1/2018			<0.005	0.0016 (J)	<0.005	0.0011 (J)
2/25/2019		<0.005				
2/26/2019			<0.005			
2/27/2019				0.0015 (J)	<0.005	0.001 (J)
3/4/2019	<0.005					
3/28/2019				0.00072 (J)	<0.005	
3/29/2019			<0.005			0.00063 (J)
4/3/2019	<0.005					
6/12/2019		0.00038 (J)				
8/19/2019		0.00095 (J)				
9/24/2019	<0.005			0.0014 (J)	<0.005	<0.005
9/25/2019			<0.005			
10/8/2019		<0.005				
2/10/2020				0.0026 (J)	0.0005 (J)	
2/11/2020						0.0044 (J)
2/12/2020	0.002 (J)		<0.005			
3/17/2020		<0.005				
3/18/2020			<0.005		<0.005	
3/19/2020				0.00095 (J)		0.00066 (J)
3/24/2020	<0.005					
8/26/2020		<0.005				
9/22/2020	<0.005	<0.005				
9/23/2020				0.0011 (J)	<0.005	0.001 (J)
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				<0.005	<0.005	
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	0.00098 (J)
8/19/2021			<0.005	<0.005	<0.005	
8/20/2021		<0.005				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		0.0033 (J)				
2/9/2022				0.0031 (J)	0.0033 (J)	0.0037 (J)
2/10/2022	0.0016 (J)		0.0016 (J)			
8/30/2022	<0.005	0.0024 (J)		<0.005		0.0027 (J)
8/31/2022			<0.005		<0.005	

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	<0.005	<0.005			
7/25/2016	<0.005		<0.005		
7/26/2016		<0.005			
9/1/2016				<0.005	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	<0.005				
11/1/2016	<0.005	<0.005	<0.005		
11/16/2016				<0.005	
1/11/2017		<0.005	<0.005		
1/16/2017	<0.005				
2/21/2017	<0.005				
2/27/2017				<0.005	
3/1/2017			0.0004 (J)		
3/2/2017		<0.005			
4/26/2017	<0.005	<0.005	<0.005		
5/8/2017				0.0007 (J)	
6/28/2017		0.0007 (J)	0.0011 (J)		
6/30/2017	<0.005				
7/13/2017				0.0011 (J)	
10/11/2017				0.0011 (J)	
3/27/2018	<0.005				
3/28/2018		<0.005	<0.005		
4/4/2018				0.00087 (J)	
6/7/2018		<0.005			
6/8/2018			<0.005		
6/11/2018	<0.005				
9/19/2018				0.0012 (J)	
10/1/2018		<0.005	<0.005		
10/2/2018	<0.005				
2/26/2019	<0.005				
2/27/2019		<0.005	<0.005		
4/1/2019	<0.005	<0.005	<0.005		
8/21/2019				0.00074 (J)	
9/25/2019	<0.005	<0.005	<0.005		
10/9/2019				<0.005	
2/11/2020			0.0041 (J)		
2/12/2020	0.0032 (J)	0.0038 (J)			
3/17/2020				<0.005	
3/19/2020	<0.005	<0.005	<0.005		
7/6/2020				0.00079 (J)	
8/27/2020					<0.005
8/28/2020				0.0015 (J)	
9/22/2020					<0.005
9/23/2020		<0.005	<0.005	0.00091 (J)	
9/24/2020	<0.005				
10/7/2020				0.001 (J)	<0.005
11/12/2020				0.0014 (J)	<0.005
2/10/2021		0.00094 (J)	0.00078 (J)		
2/11/2021	<0.005				
3/1/2021	<0.005				<0.005

# Time Series

Constituent: Arsenic (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.0016 (J)	
3/3/2021		<0.005	<0.005		
8/19/2021	<0.005	<0.005			
8/20/2021					<0.005
8/27/2021			<0.005	0.0022 (J)	
2/9/2022		0.002 (J)	0.0018 (J)	<0.005	<0.005
2/11/2022	0.0014 (J)				
8/31/2022	<0.005	0.0028 (J)	<0.005	<0.005	<0.005

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.028	0.019
6/7/2016				0.012		
7/27/2016				0.0126	0.0294	0.0167
8/30/2016	0.0413					
8/31/2016		0.126	0.0754			
9/16/2016				0.0127		0.0168
9/19/2016					0.0247	
11/3/2016				0.0128	0.0248	0.0159
11/14/2016	0.0383		0.0701			
11/15/2016		0.115				
1/11/2017				0.0142	0.0266	0.0162
2/24/2017	0.0351					
2/27/2017			0.0834			
2/28/2017		0.121				
3/1/2017					0.0275	0.0195
3/2/2017				0.0155		
4/26/2017					0.024	0.0182
5/2/2017				0.0138		
5/8/2017	0.0251	0.125				
5/9/2017			0.0779			
6/28/2017					0.0237	0.018
6/29/2017				0.0128		
7/11/2017	0.0233					
7/13/2017		0.106	0.0719			
10/10/2017	0.0207	0.112	0.0708			
3/28/2018				0.014	0.024	0.021
4/2/2018	0.022					
4/3/2018			0.068			
4/4/2018		0.12				
6/7/2018					0.023	
6/11/2018				0.013		0.019
9/19/2018	0.023	0.11	0.064			
9/25/2018				0.014	0.023	0.019
3/5/2019				0.015		0.02
3/6/2019					0.024	
4/2/2019				0.016		
4/3/2019					0.025	0.017
8/20/2019	0.024	0.1	0.057			
9/25/2019				0.015		
9/26/2019					0.021	0.017
10/8/2019	0.025	0.098				
10/9/2019			0.058			
2/11/2020				0.015	0.022	0.019
3/17/2020	0.035	0.099	0.061			
3/24/2020				0.015	0.021	0.017
8/27/2020	0.027	0.086				
8/28/2020			0.053			
9/22/2020	0.026	0.096				
9/23/2020			0.052	0.015	0.021	0.016
2/9/2021					0.023	0.017
3/1/2021	0.029	0.087	0.055			
3/3/2021				0.017	0.023	0.017

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	0.029	0.089	0.055			
8/26/2021						0.015
8/27/2021				0.016	0.02	
2/8/2022	0.03					
2/9/2022		0.083	0.053	0.017	0.021	0.014
8/30/2022				0.017	0.017	0.012
8/31/2022	0.029	0.073	0.052			

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.013	0.0084
6/7/2016	0.014	0.0058				
7/26/2016					0.0158	0.01
7/27/2016	0.0141					
7/28/2016		0.0068 (J)				
9/14/2016					0.0143	0.0085 (J)
9/19/2016	0.0155	0.0071 (J)				
11/2/2016	0.0157				0.0148	0.0091 (J)
11/3/2016		0.0092 (J)				
1/12/2017						0.0089 (J)
1/13/2017	0.0158	0.0105			0.0146	
3/6/2017	0.0163	0.0105			0.0141	
3/7/2017						0.009 (J)
4/26/2017	0.0177	0.011				
5/1/2017					0.0149	0.0083 (J)
6/27/2017						0.0074 (J)
6/29/2017	0.017	0.0109			0.0154	
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			
3/29/2018	0.014	<0.01			0.014	<0.01
4/3/2018			<0.01	0.045		
6/5/2018		0.011				
6/6/2018	0.015					0.008 (J)
6/7/2018					0.014	
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	0.015	0.011				
9/26/2018					0.02	0.0075 (J)
3/4/2019					0.016	0.0077 (J)
3/5/2019	0.016	0.011				
4/2/2019		0.011				
4/3/2019	0.018				0.017	0.0087 (J)
8/21/2019			0.015	0.035		
9/24/2019		0.011				0.0075 (J)
9/25/2019	0.014				0.015	
10/9/2019			0.013	0.036		
2/12/2020	0.014	0.011	0.011	0.035	0.012	0.0079 (J)
3/24/2020	0.015	0.011		0.033		0.0076 (J)
3/25/2020			0.014		0.016	
9/22/2020					0.013	0.0076 (J)
9/24/2020	0.015	0.01	0.016	0.028		
2/8/2021						0.0079 (J)
2/9/2021	0.015	0.011			0.013	
2/10/2021			0.027	0.032		
3/2/2021						0.014
3/3/2021	0.015				0.014	

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.011	0.028	0.032		
8/26/2021			0.038		0.012	0.0092
8/27/2021	0.013					
9/1/2021		0.0099				
9/3/2021				0.035		
2/8/2022			0.041	0.039		
2/9/2022	0.014	0.011				
2/10/2022						0.0084
2/11/2022					0.013	
8/30/2022		0.0085				0.0079
8/31/2022	0.011		0.035	0.035	0.013	

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		0.032				
9/11/2007		0.017				
3/20/2008		0.025				
8/27/2008		0.041				
3/3/2009		0.053				
11/18/2009		0.05				
3/3/2010		0.061				
9/8/2010		0.071				
3/10/2011		0.057				
9/8/2011		0.057				
3/5/2012		0.061				
9/10/2012		0.055				
2/6/2013		0.061				
8/12/2013		0.055				
2/5/2014		0.063				
8/5/2014		0.038				
2/4/2015		0.039				
8/3/2015		0.031				
2/16/2016		0.045				
6/1/2016				0.008	0.012	
6/2/2016	0.019		0.0081			
7/25/2016					0.0091 (J)	
7/26/2016	0.0179		0.0082 (J)	0.006 (J)		
8/31/2016		0.0542				
9/13/2016				0.0084 (J)	0.008 (J)	
9/14/2016	0.0181					0.0037 (J)
9/15/2016			0.0087 (J)			
11/1/2016				0.0062 (J)		
11/2/2016			0.0082 (J)			
11/4/2016	0.0165				0.0067 (J)	0.0059 (J)
11/28/2016		0.0529				
12/15/2016						0.0056 (J)
1/10/2017			0.0086 (J)			
1/11/2017				0.0069 (J)		
1/12/2017	0.0199					
1/16/2017					0.0096 (J)	0.0049 (J)
2/22/2017		0.0607				
3/2/2017				0.0071 (J)	0.0112	
3/3/2017						0.0046 (J)
3/7/2017	0.0196					
3/8/2017			0.0088 (J)			
4/26/2017			0.0085 (J)			
4/27/2017				0.0064 (J)	0.0106	
4/28/2017						0.0039 (J)
5/2/2017	0.0202					
5/8/2017		0.065				
5/26/2017						0.0034 (J)
6/27/2017	0.0184			0.0054 (J)	0.0092 (J)	
6/28/2017						0.003 (J)
6/30/2017			0.0081 (J)			
7/17/2017		0.06				
10/16/2017		0.0542				



# Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		0.0533				
3/27/2018			<0.01		<0.01	
3/28/2018						<0.01
3/29/2018	0.021			<0.01		
6/5/2018				0.0069 (J)		
6/6/2018					0.0082 (J)	
6/7/2018	0.019					0.0037 (J)
6/8/2018			0.007 (J)			
8/6/2018		0.044				
9/26/2018	0.019					
10/1/2018			0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)
2/25/2019		0.045				
2/26/2019			0.0067 (J)			
2/27/2019				0.0074 (J)	0.008 (J)	0.0035 (J)
3/4/2019	0.019					
3/28/2019				0.0082 (J)	0.0082 (J)	
3/29/2019			0.0066 (J)			0.0039 (J)
4/3/2019	0.023					
6/12/2019		0.063				
8/19/2019		0.065				
9/24/2019	0.019			0.0072 (J)	0.0086 (J)	0.0038 (J)
9/25/2019			0.0071 (J)			
10/8/2019		0.058				
2/10/2020				0.0066 (J)	0.0091 (J)	
2/11/2020						0.0036 (J)
2/12/2020	0.021		0.007 (J)			
3/17/2020		0.047				
3/18/2020			0.0076 (J)		0.0084 (J)	
3/19/2020				0.0076 (J)		0.0036 (J)
3/24/2020	0.021					
8/26/2020		0.044				
9/22/2020	0.019	0.045				
9/23/2020				0.0068 (J)	0.0079 (J)	0.0039 (J)
9/25/2020			0.0073 (J)			
2/8/2021	0.02					
2/10/2021			0.0078 (J)			0.0032 (J)
2/12/2021				0.0057 (J)	0.009 (J)	
3/2/2021	0.019	0.039	0.0076			
3/3/2021				0.0068	0.0094	0.0041 (J)
8/19/2021			0.0077	0.0065	0.0079	
8/20/2021		0.036				
8/26/2021	0.019					
8/27/2021						0.003 (J)
2/8/2022		0.037				
2/9/2022				0.0067	0.0088	0.0029 (J)
2/10/2022	0.02		0.0088			
8/30/2022	0.017	0.031		0.0066		0.003 (J)
8/31/2022			0.0075		0.0074	

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.0038		
6/2/2016	0.0064	0.01			
7/25/2016	0.0071 (J)		0.0031 (J)		
7/26/2016		0.0088 (J)			
9/1/2016				0.0414	
9/14/2016			0.0027 (J)		
9/15/2016		0.009 (J)			
9/19/2016	0.0069 (J)				
11/1/2016	0.007 (J)	0.0079 (J)	0.0027 (J)		
11/16/2016				0.0365	
1/11/2017		0.0075 (J)	0.0036 (J)		
1/16/2017	0.0071 (J)				
2/21/2017	0.0077 (J)				
2/27/2017				0.0326	
3/1/2017			0.0036 (J)		
3/2/2017		0.009 (J)			
4/26/2017	0.0074 (J)	0.0078 (J)	0.0038 (J)		
5/8/2017				0.0332	
6/28/2017		0.0071 (J)	0.004 (J)		
6/30/2017	0.0076 (J)				
7/13/2017				0.0365	
10/11/2017				0.0288	
3/27/2018	<0.01				
3/28/2018		<0.01	<0.01		
4/4/2018				0.025	
6/7/2018		0.0068 (J)			
6/8/2018			0.0034 (J)		
6/11/2018	0.007 (J)				
9/19/2018				0.03	
10/1/2018		0.0065 (J)	0.0034 (J)		
10/2/2018	0.0069 (J)				
2/26/2019	0.007 (J)				
2/27/2019		0.0059 (J)	0.0034 (J)		
4/1/2019	0.0072 (J)	0.0064 (J)	0.003 (J)		
8/21/2019				0.023	
9/25/2019	0.0066 (J)	0.0059 (J)	0.005 (J)		
10/9/2019				0.024	
2/11/2020			0.0031 (J)		
2/12/2020	0.0073 (J)	0.0062 (J)			
3/17/2020				0.022	
3/19/2020	0.0074 (J)	0.0072 (J)	0.0029 (J)		
7/6/2020				0.048	
8/27/2020					0.021
8/28/2020				0.05	
9/22/2020					0.021
9/23/2020		0.0051 (J)	0.0039 (J)	0.045	
9/24/2020	0.0062 (J)				
10/7/2020				0.042	0.019
11/12/2020				0.042	0.019
2/10/2021		0.0059 (J)	0.0029 (J)		
2/11/2021	0.0077 (J)				
3/1/2021	0.007				0.019

# Time Series

Constituent: Barium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.044	
3/3/2021		0.0064	0.0031 (J)		
8/19/2021	0.0071	0.0052			
8/20/2021					0.019
8/27/2021			0.0039 (J)	0.043	
2/9/2022		0.0051	0.0031 (J)	0.042	0.018
2/11/2022	0.0077				
8/31/2022	0.0068	0.0048 (J)	0.003 (J)	0.036	0.017

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.0005	<0.0005
6/7/2016				<0.0005		
7/27/2016				<0.0005	<0.0005	<0.0005
8/30/2016	<0.0005					
8/31/2016		<0.0005	<0.0005			
9/16/2016				<0.0005		<0.0005
9/19/2016					<0.0005	
11/3/2016				<0.0005	<0.0005	<0.0005
11/14/2016	<0.0005		<0.0005			
11/15/2016		<0.0005				
1/11/2017				<0.0005	<0.0005	<0.0005
2/24/2017	<0.0005					
2/27/2017			<0.0005			
2/28/2017		<0.0005				
3/1/2017					<0.0005	<0.0005
3/2/2017				8E-05 (J)		
4/26/2017					<0.0005	<0.0005
5/2/2017				<0.0005		
5/8/2017	7E-05 (J)	<0.0005				
5/9/2017			<0.0005			
6/28/2017					<0.0005	<0.0005
6/29/2017				<0.0005		
7/11/2017	<0.0005					
7/13/2017		<0.0005	<0.0005			
10/10/2017	<0.0005	<0.0005	<0.0005			
3/28/2018				<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005					
4/3/2018			<0.0005			
4/4/2018		<0.0005				
6/7/2018					<0.0005	
6/11/2018				9E-05 (J)		5.7E-05 (J)
9/19/2018	5.7E-05 (J)	<0.0005	<0.0005			
9/25/2018				8.9E-05 (J)	<0.0005	8.2E-05 (J)
3/5/2019				9.1E-05 (J)		7.9E-05 (J)
3/6/2019					<0.0005	
4/2/2019				9E-05 (J)		
4/3/2019					<0.0005	7.5E-05 (J)
8/20/2019	<0.0005	<0.0005	<0.0005			
9/25/2019				8.1E-05 (J)		
9/26/2019					<0.0005	8.4E-05 (J)
2/11/2020				7.8E-05 (J)	<0.0005	7.6E-05 (J)
3/24/2020				8E-05 (J)	<0.0005	8.9E-05 (J)
8/27/2020	4.7E-05 (J)	<0.0005				
8/28/2020			<0.0005			
9/22/2020	<0.0005	<0.0005				
9/23/2020			<0.0005	8.1E-05 (J)	<0.0005	8.8E-05 (J)
2/9/2021					<0.0005	9.8E-05 (J)
3/1/2021	5.5E-05 (J)	<0.0005	<0.0005			
3/3/2021				9.9E-05 (J)	<0.0005	0.00011 (J)
8/19/2021	<0.0005	<0.0005	<0.0005			
8/26/2021						9.3E-05 (J)
8/27/2021				0.0001 (J)	<0.0005	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/8/2022	5.6E-05 (J)					
2/9/2022		<0.0005	<0.0005	0.00011 (J)	<0.0005	8.9E-05 (J)
8/30/2022				0.0001 (J)	<0.0005	8.2E-05 (J)
8/31/2022	<0.0005	<0.0005	<0.0005			

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.0005	<0.0005
6/7/2016	<0.0005	<0.0005				
7/26/2016					<0.0005	<0.0005
7/27/2016	<0.0005					
7/28/2016		<0.0005				
9/14/2016					<0.0005	<0.0005
9/19/2016	<0.0005	<0.0005				
11/2/2016	<0.0005				<0.0005	<0.0005
11/3/2016		<0.0005				
1/12/2017						<0.0005
1/13/2017	<0.0005	<0.0005			<0.0005	
3/6/2017	<0.0005	<0.0005			<0.0005	
3/7/2017						<0.0005
4/26/2017	<0.0005	<0.0005				
5/1/2017					<0.0005	<0.0005
6/27/2017						<0.0005
6/29/2017	<0.0005	<0.0005			<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				<0.0005		
2/20/2018			<0.0005			
3/29/2018	<0.0005	<0.0005			<0.0005	<0.0005
4/3/2018			<0.0005	<0.0005		
6/5/2018		<0.0005				
6/6/2018	8E-05 (J)					<0.0005
6/7/2018					<0.0005	
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	6.1E-05 (J)	<0.0005				
9/26/2018					<0.0005	<0.0005
3/4/2019					<0.0005	<0.0005
3/5/2019	0.00011 (J)	<0.0005				
4/2/2019		<0.0005				
4/3/2019	6.4E-05 (J)				<0.0005	<0.0005
8/21/2019			<0.0005	0.0002 (J)		
9/24/2019		<0.0005				<0.0005
9/25/2019	<0.0005				<0.0005	
10/9/2019			<0.0005	0.0002 (J)		
2/12/2020	7.8E-05 (J)	<0.0005	<0.0005	0.00018 (J)	<0.0005	<0.0005
3/24/2020	7.6E-05 (J)	<0.0005		0.00022 (J)		<0.0005
3/25/2020			<0.0005		<0.0005	
9/22/2020					<0.0005	<0.0005
9/24/2020	8.3E-05 (J)	<0.0005	<0.0005	0.0002 (J)		
2/8/2021						<0.0005
2/9/2021	6.8E-05 (J)	<0.0005			<0.0005	
2/10/2021			5.1E-05 (J)	0.00021 (J)		
3/2/2021						<0.0005
3/3/2021	6.8E-05 (J)				<0.0005	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		<0.0005	<0.0005	0.00021 (J)		
8/26/2021			<0.0005		<0.0005	<0.0005
8/27/2021	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	7.7E-05 (J)	<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	0.00025 (J)	<0.0005	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.0005				
9/11/2007		<0.0005				
3/20/2008		<0.0005				
8/27/2008		<0.0005				
3/3/2009		<0.0005				
11/18/2009		<0.0005				
3/3/2010		<0.0005				
9/8/2010		<0.0005				
3/10/2011		<0.0005				
9/8/2011		<0.0005				
3/5/2012		<0.0005				
9/10/2012		<0.0005				
2/6/2013		<0.0005				
8/12/2013		<0.0005				
2/5/2014		<0.0005				
8/5/2014		<0.0005				
2/4/2015		<0.0005				
8/3/2015		<0.0005				
2/16/2016		<0.0005				
6/1/2016				<0.0005	<0.0005	
6/2/2016	<0.0005		<0.0005			
7/25/2016					<0.0005	
7/26/2016	<0.0005		0.0002 (J)	<0.0005		
8/31/2016		<0.0005				
9/13/2016				<0.0005	<0.0005	
9/14/2016	<0.0005					<0.0005
9/15/2016			0.0002 (J)			
11/1/2016				<0.0005		
11/2/2016			0.0002 (J)			
11/4/2016	<0.0005				<0.0005	<0.0005
11/28/2016		<0.0005				
12/15/2016						<0.0005
1/10/2017			0.0002 (J)			
1/11/2017				<0.0005		
1/12/2017	<0.0005					
1/16/2017					<0.0005	<0.0005
2/22/2017		<0.0005				
3/2/2017				<0.0005	<0.0005	
3/3/2017						<0.0005
3/7/2017	<0.0005					
3/8/2017			0.0002 (J)			
4/26/2017			0.0002 (J)			
4/27/2017				<0.0005	<0.0005	
4/28/2017						<0.0005
5/2/2017	<0.0005					
5/8/2017		<0.0005				
5/26/2017						<0.0005
6/27/2017	<0.0005			<0.0005	<0.0005	
6/28/2017						<0.0005
6/30/2017			0.0002 (J)			
7/17/2017		<0.0005				
10/16/2017		<0.0005				



# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.0005				
3/27/2018			<0.0005		<0.0005	
3/28/2018						<0.0005
3/29/2018	<0.0005			<0.0005		
6/7/2018	<0.0005					
8/6/2018		<0.0005				
9/26/2018	<0.0005					
2/25/2019		<0.0005				
2/26/2019			0.00016 (J)			
2/27/2019				<0.0005	<0.0005	<0.0005
3/4/2019	<0.0005					
3/28/2019				<0.0005	<0.0005	
3/29/2019			0.00017 (J)			<0.0005
4/3/2019	<0.0005					
6/12/2019		<0.0005				
8/19/2019		<0.0005				
9/24/2019	<0.0005			<0.0005	<0.0005	<0.0005
9/25/2019			0.00018 (J)			
10/8/2019		<0.0005				
2/10/2020				<0.0005	<0.0005	
2/11/2020						<0.0005
2/12/2020	<0.0005		0.00019 (J)			
3/17/2020		<0.0005				
3/18/2020			0.00021 (J)		<0.0005	
3/19/2020				<0.0005		<0.0005
3/24/2020	<0.0005					
8/26/2020		<0.0005				
9/22/2020	<0.0005	<0.0005				
9/23/2020				<0.0005	<0.0005	<0.0005
9/25/2020			0.00018 (J)			
2/8/2021	<0.0005					
2/10/2021			0.00019 (J)			<0.0005
2/12/2021				<0.0005	<0.0005	
3/2/2021	<0.0005	<0.0005	0.00018 (J)			
3/3/2021				<0.0005	<0.0005	<0.0005
8/19/2021			0.00022 (J)	<0.0005	<0.0005	
8/20/2021		<0.0005				
8/26/2021	<0.0005					
8/27/2021						<0.0005
2/8/2022		<0.0005				
2/9/2022				<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005		0.00025 (J)			
8/30/2022	<0.0005	<0.0005		<0.0005		<0.0005
8/31/2022			0.0002 (J)		<0.0005	

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.0005		
6/2/2016	<0.0005	<0.0005			
7/25/2016	<0.0005		<0.0005		
7/26/2016		<0.0005			
9/1/2016				<0.0005	
9/14/2016			<0.0005		
9/15/2016		<0.0005			
9/19/2016	<0.0005				
11/1/2016	<0.0005	<0.0005	<0.0005		
11/16/2016				<0.0005	
1/11/2017		<0.0005	<0.0005		
1/16/2017	<0.0005				
2/21/2017	<0.0005				
2/27/2017				<0.0005	
3/1/2017			<0.0005		
3/2/2017		<0.0005			
4/26/2017	<0.0005	<0.0005	<0.0005		
5/8/2017				<0.0005	
6/28/2017		<0.0005	<0.0005		
6/30/2017	<0.0005				
7/13/2017				<0.0005	
10/11/2017				<0.0005	
3/27/2018	<0.0005				
3/28/2018		<0.0005	<0.0005		
4/4/2018				<0.0005	
9/19/2018				<0.0005	
2/26/2019	7.2E-05 (J)				
2/27/2019		<0.0005	<0.0005		
4/1/2019	<0.0005	<0.0005	<0.0005		
8/21/2019				<0.0005	
9/25/2019	<0.0005	<0.0005	<0.0005		
2/11/2020			<0.0005		
2/12/2020	<0.0005	<0.0005			
3/19/2020	<0.0005	<0.0005	<0.0005		
7/6/2020				<0.0005	
8/27/2020					<0.0005
8/28/2020				<0.0005	
9/22/2020					<0.0005
9/23/2020		<0.0005	5.9E-05 (J)	<0.0005	
9/24/2020	<0.0005				
10/7/2020				<0.0005	<0.0005
11/12/2020				<0.0005	<0.0005
2/10/2021		<0.0005	<0.0005		
2/11/2021	4.7E-05 (J)				
3/1/2021	<0.0005				<0.0005
3/2/2021				<0.0005	
3/3/2021		<0.0005	<0.0005		
8/19/2021	<0.0005	<0.0005			
8/20/2021					<0.0005
8/27/2021			<0.0005	<0.0005	
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005
2/11/2022	<0.0005				

# Time Series

Constituent: Beryllium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.04	<0.04
6/7/2016				<0.04		
7/27/2016				0.008 (J)	<0.04	0.0059 (J)
8/30/2016	0.0166 (J)					
8/31/2016		0.541	0.308			
9/16/2016				0.0086 (J)		0.0079 (J)
9/19/2016					<0.04	
11/3/2016				0.0077 (J)	<0.04	0.0082 (J)
11/14/2016	0.0166 (J)		0.368			
11/15/2016		0.706				
1/11/2017				0.0092 (J)	<0.04	0.0096 (J)
2/24/2017	0.0145 (J)					
2/27/2017			0.321			
2/28/2017		0.623				
3/1/2017					<0.04	<0.04
3/2/2017				0.0095 (J)		
4/26/2017					<0.04	0.0091 (J)
5/2/2017				<0.04		
5/8/2017	0.0141 (J)	0.69				
5/9/2017			0.338			
6/28/2017					<0.04	0.0079 (J)
6/29/2017				0.0074 (J)		
7/11/2017	0.0131 (J)					
7/13/2017		0.649	0.34			
10/4/2017				0.0077 (J)		0.009 (J)
10/5/2017					<0.04	
10/10/2017	0.0124 (J)	0.603	0.319			
4/2/2018	0.013 (J)					
4/3/2018			0.35			
4/4/2018		0.66				
6/7/2018					<0.04	
6/11/2018				0.01 (J)		0.0093 (J)
9/19/2018	0.012 (J)	0.66	0.35			
9/25/2018				0.0096 (J)	0.0046 (J)	0.007 (J)
3/27/2019	0.013 (J)	0.57	0.33			
4/2/2019				0.0066 (J)		
4/3/2019					<0.04	0.0053 (J)
9/25/2019				0.0081 (J)		
9/26/2019					0.0062 (J)	0.0072 (J)
10/8/2019	0.012 (J)	0.58				
10/9/2019			0.35			
3/17/2020	0.023 (J)	0.61	0.37			
3/24/2020				0.0092 (J)	0.0054 (J)	0.01 (J)
9/22/2020	0.0076 (J)	0.59				
9/23/2020			0.32	0.0066 (J)	0.021 (J)	0.006 (J)
3/1/2021	0.013 (J)	0.54	0.32			
3/3/2021				0.01 (J)	<0.04	0.0094 (J)
8/19/2021	0.011 (J)	0.56	0.31			
8/26/2021						<0.04
8/27/2021				0.011 (J)	<0.04	
2/8/2022	0.015 (J)					
2/9/2022		0.58	0.34	0.0098 (J)	<0.04	<0.04

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				0.013 (J)	<0.04	0.014 (J)
8/31/2022	0.0091 (J)	0.54	0.33			

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.04	<0.04
6/7/2016	<0.04	<0.04				
7/26/2016					0.0047 (J)	0.0052 (J)
7/27/2016	<0.04					
7/28/2016		<0.04				
9/14/2016					<0.04	0.0071 (J)
9/19/2016	<0.04	<0.04				
11/2/2016	<0.04				<0.04	<0.04
11/3/2016		<0.04				
1/12/2017						0.0076 (J)
1/13/2017	<0.04	<0.04			<0.04	
3/6/2017	<0.04	<0.04			<0.04	
3/7/2017						0.0089 (J)
4/26/2017	<0.04	<0.04				
5/1/2017					<0.04	0.0061 (J)
6/27/2017						0.0079 (J)
6/29/2017	<0.04	<0.04			<0.04	
10/3/2017		<0.04				0.0094 (J)
10/4/2017	<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)					0.0098 (J)
6/7/2018					0.0045 (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	<0.04	0.0054 (J)				
9/26/2018					0.005 (J)	0.01 (J)
3/26/2019				0.096		
3/27/2019			0.017 (J)			
4/2/2019		0.011 (J)				
4/3/2019	<0.04				0.0055 (J)	0.0076 (J)
9/24/2019		0.018 (J)				0.01 (J)
9/25/2019	<0.04				<0.04	
10/9/2019			0.017 (J)	0.079		
3/24/2020	<0.04	0.016 (J)		0.088 (J)		0.011 (J)
3/25/2020			0.043 (J)		0.011 (J)	
9/22/2020					<0.04	0.0079 (J)
9/24/2020	0.0094 (J)	0.013 (J)	0.037 (J)	0.087 (J)		
3/2/2021						0.0068 (J)
3/3/2021	<0.04				0.0056 (J)	
3/4/2021		0.0079 (J)	0.033 (J)	0.078		
8/26/2021			0.095		<0.04	0.009 (J)
8/27/2021	<0.04					

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		<0.04				
9/3/2021				0.077		
2/8/2022			0.13	0.074		
2/9/2022	<0.04	<0.04				
2/10/2022						0.011 (J)
2/11/2022					<0.04	
8/30/2022		0.012 (J)				0.0098 (J)
8/31/2022	<0.04		0.14	0.062	<0.04	

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				<0.04	<0.04	
6/2/2016	<0.04		<0.04			
7/25/2016					<0.04	
7/26/2016	<0.04		0.0177 (J)	0.0055 (J)		
8/31/2016		0.0315 (J)				
9/13/2016				<0.04	<0.04	
9/14/2016	0.01 (J)					<0.04
9/15/2016			0.0214 (J)			
11/1/2016				0.0086 (J)		
11/2/2016			<0.04			
11/4/2016	<0.04				<0.04	<0.04
11/28/2016		0.0095 (J)				
12/15/2016						0.0107 (J)
1/10/2017			0.0198 (J)			
1/11/2017				0.0074 (J)		
1/12/2017	<0.04					
1/16/2017					<0.04	<0.04
2/22/2017		<0.04				
3/2/2017				0.008 (J)	<0.04	
3/3/2017						<0.04
3/7/2017	<0.04					
3/8/2017			0.0189 (J)			
4/26/2017			0.0161 (J)			
4/27/2017				0.0066 (J)	<0.04	
4/28/2017						<0.04
5/2/2017	<0.04					
5/8/2017		0.0084 (J)				
5/26/2017						<0.04
6/27/2017	<0.04			0.0087 (J)	0.006 (J)	
6/28/2017						<0.04
6/30/2017			0.0173 (J)			
7/17/2017		0.0092 (J)				
10/3/2017	<0.04			0.0072 (J)	0.0071 (J)	<0.04
10/5/2017			0.0173 (J)			
10/16/2017		<0.04				
2/19/2018		<0.04				
6/5/2018				0.0052 (J)		
6/6/2018					<0.04	
6/7/2018	<0.04					<0.04
6/8/2018			0.013 (J)			
8/6/2018		<0.04				
9/26/2018	0.0057 (J)					
10/1/2018			0.015 (J)	0.021 (J)	0.0049 (J)	<0.04
2/25/2019		<0.04				
3/28/2019				0.005 (J)	<0.04	
3/29/2019			0.014 (J)			0.0065 (J)
4/3/2019	0.0044 (J)					
6/12/2019		<0.04				
9/24/2019	0.0049 (J)			0.0064 (J)	0.0055 (J)	0.0076 (J)
9/25/2019			0.018 (J)			
10/8/2019		<0.04				
3/17/2020		0.0051 (J)				



# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			0.02 (J)		0.0087 (J)	
3/19/2020				0.0085 (J)		0.0073 (J)
3/24/2020	0.0068 (J)					
9/22/2020	0.0053 (J)	0.0079 (J)				
9/23/2020				<0.04	<0.04	<0.04
9/25/2020			0.02 (J)			
3/2/2021	0.011 (J)	<0.04	0.017 (J)			
3/3/2021				<0.04	<0.04	<0.04
8/19/2021			0.018 (J)	<0.04	<0.04	
8/20/2021		<0.04				
8/26/2021	<0.04					
8/27/2021						<0.04
2/8/2022		<0.04				
2/9/2022				<0.04	<0.04	<0.04
2/10/2022	<0.04		0.02 (J)			
8/30/2022	<0.04	<0.04		<0.04		<0.04
8/31/2022			0.015 (J)		<0.04	

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.04		
6/2/2016	<0.04	<0.04			
7/25/2016	<0.04		<0.04		
7/26/2016		0.0097 (J)			
9/1/2016				2.12	
9/14/2016			<0.04		
9/15/2016		0.0102 (J)			
9/19/2016	<0.04				
11/1/2016	<0.04	<0.04	<0.04		
11/16/2016				2.03	
1/11/2017		<0.04	<0.04		
1/16/2017	<0.04				
2/21/2017	<0.04				
2/27/2017				1.29	
3/1/2017			<0.04		
3/2/2017		0.0084 (J)			
4/26/2017	<0.04	<0.04	<0.04		
5/8/2017				1.71	
6/28/2017		<0.04	<0.04		
6/30/2017	<0.04				
7/13/2017				1.62	
10/4/2017	<0.04	<0.04	<0.04		
10/11/2017				1.17	
4/4/2018				1.2	
6/7/2018		0.004 (J)			
6/8/2018			<0.04		
6/11/2018	0.014 (J)				
9/19/2018				1.2	
10/1/2018		<0.04	<0.04		
10/2/2018	<0.04				
3/27/2019				0.89	
4/1/2019	<0.04	<0.04	<0.04		
9/25/2019	<0.04	0.0054 (J)	<0.04		
10/9/2019				1.1	
3/17/2020				1.3	
3/19/2020	0.0052 (J)	0.0073 (J)	0.0053 (J)		
7/6/2020				2	
8/27/2020					0.014 (J)
8/28/2020				1.8	
9/22/2020					<0.04
9/23/2020		0.012 (J)	0.0073 (J)	2	
9/24/2020	0.0075 (J)				
10/7/2020				1.8	0.018 (J)
11/12/2020				1.8	0.012 (J)
3/1/2021	<0.04				0.015 (J)
3/2/2021				1.9	
3/3/2021		<0.04	<0.04		
8/19/2021	<0.04	<0.04			
8/20/2021					<0.04
8/27/2021			<0.04	1.9	
2/9/2022		0.01 (J)	<0.04	2.1	0.0089 (J)
2/11/2022	<0.04				

# Time Series

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	<0.04	<0.04	<0.04	2.1	<0.04

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.0005	<0.0005
6/7/2016				<0.0005		
7/27/2016				<0.0005	<0.0005	<0.0005
8/30/2016	0.0001 (J)					
8/31/2016		<0.0005	<0.0005			
9/16/2016				<0.0005		<0.0005
9/19/2016					<0.0005	
11/3/2016				<0.0005	<0.0005	<0.0005
11/14/2016	0.0001 (J)		<0.0005			
11/15/2016		<0.0005				
1/11/2017				0.0001 (J)	<0.0005	0.0001 (J)
2/24/2017	9E-05 (J)					
2/27/2017			<0.0005			
2/28/2017		<0.0005				
3/1/2017					<0.0005	<0.0005
3/2/2017				<0.0005		
4/26/2017					<0.0005	<0.0005
5/2/2017				<0.0005		
5/8/2017	0.0001 (J)	<0.0005				
5/9/2017			<0.0005			
6/28/2017					<0.0005	<0.0005
6/29/2017				<0.0005		
7/11/2017	<0.0005					
7/13/2017		<0.0005	<0.0005			
10/10/2017	<0.0005	<0.0005	<0.0005			
3/28/2018				<0.0005	<0.0005	<0.0005
4/2/2018	<0.0005					
4/3/2018			<0.0005			
4/4/2018		<0.0005				
6/7/2018					<0.0005	
6/11/2018				<0.0005		<0.0005
9/19/2018	<0.0005	<0.0005	<0.0005			
9/25/2018				<0.0005	<0.0005	<0.0005
3/5/2019				<0.0005		<0.0005
3/6/2019					<0.0005	
4/2/2019				<0.0005		
4/3/2019					<0.0005	<0.0005
8/20/2019	<0.0005	<0.0005	<0.0005			
9/25/2019				<0.0005		
9/26/2019					<0.0005	<0.0005
10/8/2019	<0.0005	<0.0005				
10/9/2019			<0.0005			
2/11/2020				<0.0005	<0.0005	<0.0005
3/17/2020	<0.0005	<0.0005	<0.0005			
3/24/2020				<0.0005	<0.0005	<0.0005
8/27/2020	<0.0005	<0.0005				
8/28/2020			<0.0005			
9/23/2020				<0.0005	<0.0005	<0.0005
2/9/2021					<0.0005	<0.0005
3/3/2021				<0.0005	<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005			
8/26/2021						<0.0005

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/27/2021				<0.0005	<0.0005	
2/8/2022	<0.0005					
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
8/30/2022				<0.0005	<0.0005	<0.0005
8/31/2022	<0.0005	<0.0005	<0.0005			

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.0005	<0.0005
6/7/2016	<0.0005	<0.0005				
7/26/2016					<0.0005	<0.0005
7/27/2016	<0.0005					
7/28/2016		<0.0005				
9/14/2016					<0.0005	<0.0005
9/19/2016	<0.0005	<0.0005				
11/2/2016	<0.0005				<0.0005	<0.0005
11/3/2016		<0.0005				
1/12/2017						<0.0005
1/13/2017	<0.0005	<0.0005			<0.0005	
3/6/2017	<0.0005	<0.0005			<0.0005	
3/7/2017						<0.0005
4/26/2017	<0.0005	<0.0005				
5/1/2017					<0.0005	<0.0005
6/27/2017						<0.0005
6/29/2017	<0.0005	<0.0005			<0.0005	
10/11/2017			<0.0005			
10/12/2017				<0.0005		
11/20/2017			<0.0005	<0.0005		
1/10/2018				<0.0005		
1/11/2018			<0.0005			
2/19/2018				<0.0005		
2/20/2018			<0.0005			
3/29/2018	<0.0005	<0.0005			<0.0005	<0.0005
4/3/2018			<0.0005	<0.0005		
6/5/2018		<0.0005				
6/6/2018	<0.0005					<0.0005
6/7/2018					<0.0005	
6/28/2018			<0.0005	<0.0005		
8/7/2018			<0.0005	<0.0005		
9/24/2018			<0.0005	<0.0005		
9/25/2018	<0.0005	9.6E-05 (J)				
9/26/2018					<0.0005	<0.0005
3/4/2019					<0.0005	<0.0005
3/5/2019	<0.0005	<0.0005				
4/2/2019		<0.0005				
4/3/2019	<0.0005				<0.0005	<0.0005
8/21/2019			<0.0005	<0.0005		
9/24/2019		<0.0005				<0.0005
9/25/2019	<0.0005				<0.0005	
10/9/2019			<0.0005	<0.0005		
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
3/24/2020	<0.0005	<0.0005		<0.0005		<0.0005
3/25/2020			<0.0005		<0.0005	
9/22/2020					<0.0005	<0.0005
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005		
2/8/2021						<0.0005
2/9/2021	<0.0005	0.00041 (J)			<0.0005	
2/10/2021			0.00019 (J)	<0.0005		
3/2/2021						<0.0005
3/3/2021	<0.0005				<0.0005	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		<0.0005	0.0003 (J)	<0.0005		
8/26/2021			0.00049 (J)		<0.0005	<0.0005
8/27/2021	<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				
2/10/2022						<0.0005
2/11/2022					<0.0005	
8/30/2022		<0.0005				<0.0005
8/31/2022	<0.0005		0.00044 (J)	<0.0005	<0.0005	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.0005				
9/11/2007		<0.0005				
3/20/2008		<0.0005				
8/27/2008		<0.0005				
3/3/2009		<0.0005				
11/18/2009		<0.0005				
3/3/2010		<0.0005				
9/8/2010		<0.0005				
3/10/2011		<0.0005				
9/8/2011		<0.0005				
3/5/2012		<0.0005				
9/10/2012		<0.0005				
2/6/2013		<0.0005				
8/12/2013		<0.0005				
2/5/2014		<0.0005				
8/5/2014		<0.0005				
2/4/2015		<0.0005				
8/3/2015		<0.0005				
2/16/2016		<0.0005				
6/1/2016				<0.0005	<0.0005	
6/2/2016	<0.0005		<0.0005			
7/25/2016					<0.0005	
7/26/2016	<0.0005		<0.0005	<0.0005		
8/31/2016		<0.0005				
9/13/2016				<0.0005	<0.0005	
9/14/2016	<0.0005					<0.0005
9/15/2016			<0.0005			
11/1/2016				<0.0005		
11/2/2016			<0.0005			
11/4/2016	<0.0005				<0.0005	<0.0005
11/28/2016		<0.0005				
12/15/2016						<0.0005
1/10/2017			<0.0005			
1/11/2017				0.0002 (J)		
1/12/2017	9E-05 (J)					
1/16/2017					<0.0005	<0.0005
2/22/2017		<0.0005				
3/2/2017				<0.0005	<0.0005	
3/3/2017						<0.0005
3/7/2017	<0.0005					
3/8/2017			7E-05 (J)			
4/26/2017			<0.0005			
4/27/2017				<0.0005	<0.0005	
4/28/2017						<0.0005
5/2/2017	<0.0005					
5/8/2017		<0.0005				
5/26/2017						<0.0005
6/27/2017	<0.0005			<0.0005	<0.0005	
6/28/2017						<0.0005
6/30/2017			<0.0005			
7/17/2017		<0.0005				
10/16/2017		<0.0005				



# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.0005				
3/27/2018			<0.0005		<0.0005	
3/28/2018						<0.0005
3/29/2018	<0.0005			<0.0005		
6/7/2018	<0.0005					
8/6/2018		<0.0005				
9/26/2018	<0.0005					
2/25/2019		<0.0005				
2/26/2019			<0.0005			
2/27/2019				<0.0005	<0.0005	<0.0005
3/4/2019	<0.0005					
3/28/2019				<0.0005	<0.0005	
3/29/2019			<0.0005			<0.0005
4/3/2019	<0.0005					
6/12/2019		<0.0005				
8/19/2019		<0.0005				
9/24/2019	<0.0005			<0.0005	<0.0005	<0.0005
9/25/2019			<0.0005			
10/8/2019		<0.0005				
2/10/2020				<0.0005	<0.0005	
2/11/2020						<0.0005
2/12/2020	<0.0005		<0.0005			
3/17/2020		<0.0005				
3/18/2020			<0.0005		<0.0005	
3/19/2020				<0.0005		<0.0005
3/24/2020	<0.0005					
8/26/2020		<0.0005				
9/22/2020	<0.0005	<0.0005				
9/23/2020				<0.0005	<0.0005	<0.0005
9/25/2020			<0.0005			
2/8/2021	<0.0005					
2/10/2021			<0.0005			<0.0005
2/12/2021				<0.0005	<0.0005	
3/2/2021	<0.0005	<0.0005	<0.0005			
3/3/2021				<0.0005	<0.0005	<0.0005
8/19/2021			<0.0005	<0.0005	<0.0005	
8/20/2021		<0.0005				
8/26/2021	<0.0005					
8/27/2021						<0.0005
2/8/2022		<0.0005				
2/9/2022				<0.0005	<0.0005	<0.0005
2/10/2022	<0.0005		<0.0005			
8/30/2022	<0.0005	<0.0005		<0.0005		<0.0005
8/31/2022			<0.0005		<0.0005	

# Time Series

Constituent: Cadmium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.0005		
6/2/2016	<0.0005	<0.0005			
7/25/2016	<0.0005		<0.0005		
7/26/2016		<0.0005			
9/1/2016				<0.0005	
9/14/2016			<0.0005		
9/15/2016		<0.0005			
9/19/2016	<0.0005				
11/1/2016	<0.0005	<0.0005	<0.0005		
11/16/2016				<0.0005	
1/11/2017		0.0001 (J)	8E-05 (J)		
1/16/2017	<0.0005				
2/21/2017	<0.0005				
2/27/2017				<0.0005	
3/1/2017			<0.0005		
3/2/2017		<0.0005			
4/26/2017	<0.0005	<0.0005	<0.0005		
5/8/2017				0.0001 (J)	
6/28/2017		<0.0005	<0.0005		
6/30/2017	<0.0005				
7/13/2017				<0.0005	
10/11/2017				<0.0005	
3/27/2018	<0.0005				
3/28/2018		<0.0005	<0.0005		
4/4/2018				<0.0005	
9/19/2018				<0.0005	
2/26/2019	<0.0005				
2/27/2019		<0.0005	<0.0005		
4/1/2019	<0.0005	<0.0005	<0.0005		
8/21/2019				0.00012 (J)	
9/25/2019	<0.0005	<0.0005	<0.0005		
10/9/2019				<0.0005	
2/11/2020			<0.0005		
2/12/2020	<0.0005	<0.0005			
3/17/2020				0.00012 (J)	
3/19/2020	<0.0005	<0.0005	<0.0005		
7/6/2020				<0.0005	
8/27/2020					<0.0005
8/28/2020				<0.0005	
9/23/2020		<0.0005	<0.0005		
9/24/2020	<0.0005				
11/12/2020				<0.0005	<0.0005
2/10/2021		<0.0005	<0.0005		
2/11/2021	<0.0005				
3/1/2021	<0.0005				
3/3/2021		<0.0005	<0.0005		
8/19/2021	<0.0005	<0.0005			
8/20/2021					<0.0005
8/27/2021			<0.0005	<0.0005	
2/9/2022		<0.0005	<0.0005	<0.0005	<0.0005
2/11/2022	<0.0005				
8/31/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					6.2	1.4
6/7/2016				2.2		
7/27/2016				2	4.73	1.19
8/30/2016	20.9					
8/31/2016		27.3	46.7			
9/16/2016				1.97		1.5
9/19/2016					4.76	
11/3/2016				1.99	5.25	1.31
11/14/2016	18.6		50.6			
11/15/2016		27.8				
1/11/2017				2.28	4.74	1.25
2/24/2017	16.1					
2/27/2017			49.4			
2/28/2017		26.4				
3/1/2017					5.37	1.26
3/2/2017				2.15		
4/26/2017					4.28	1.05
5/2/2017				1.95		
5/8/2017	14.6	29.9				
5/9/2017			56			
6/28/2017					4.95	1.06
6/29/2017				2.02		
7/11/2017	14.3					
7/13/2017		30.2	54.8			
10/4/2017				2.03		1.1
10/5/2017					5.28	
10/10/2017	12.1	27.2	52.8			
4/2/2018	<25					
4/3/2018			50.6			
4/4/2018		30.1				
6/7/2018					4.8	
6/11/2018				2.1		1.4
9/19/2018	11.1 (J)	29.2	50.5			
9/25/2018				2.1	4.6	1
3/27/2019	10.8 (J)	27.9	48.8			
4/2/2019				2.5		
4/3/2019					5.3	1.2
9/25/2019				2.6		
9/26/2019					4.9	1.1
10/8/2019	9.7	28.1				
10/9/2019			47.9			
3/17/2020	14.8	31.9	54.8			
3/24/2020				2.7	5.3	1
9/22/2020	10.1	30.4				
9/23/2020			50	2.6	5.2	0.91 (J)
3/1/2021	10.3	31.9	50.7			
3/3/2021				2.5	5.2	0.96 (J)
8/19/2021	9.6	31.7	50.4			
8/26/2021						0.98 (J)
8/27/2021				2.7	5.1	
2/8/2022	9.4					
2/9/2022		30.8	49.3	2.8	5.1	0.87 (J)

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				3	5.7	0.77 (J)
8/31/2022	9.6	30.8	51.8			

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					8.8	33
6/7/2016	2.3	3.7				
7/26/2016					7.69	32.3
7/27/2016	2.08					
7/28/2016		3.15				
9/14/2016					8.49	31
9/19/2016	1.97	3.17				
11/2/2016	2.13				7.83	30.9
11/3/2016		3.4				
1/12/2017						35.7
1/13/2017	2.45	4.98			8.08	
3/6/2017	2.48	6.28			8.64	
3/7/2017						32.7
4/26/2017	2.3	6.65				
5/1/2017					13.4	37
6/27/2017						36.5
6/29/2017	2.54	6.04			8.81	
10/3/2017		8.28				30.9
10/4/2017	2.25					
10/5/2017					9.29	
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					26.2
6/7/2018					8.2	
6/28/2018			1.4	6.7		
8/7/2018			1.2	6.3		
9/24/2018			1.1	5.7		
9/25/2018	2.3	10.4 (J)				
9/26/2018					9.5 (J)	25.8
3/26/2019				5.6		
3/27/2019			1.5			
4/2/2019		8.8				
4/3/2019	2.9				8.4	24.7 (J)
9/24/2019		7.7				25.8
9/25/2019	2.4				9.5	
10/9/2019			2.4	4.9		
3/24/2020	2.6	6		4.8		26.1
3/25/2020			2.7		10.5	
9/22/2020					9.6	27.2
9/24/2020	2.6	7.8	3.7	4.4		
3/2/2021						1.6
3/3/2021	2.4				7.7	
3/4/2021		8.7	8.2	4.6		
8/26/2021			14.1		7.6	25.2
8/27/2021	2.4					

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		9.5				
9/3/2021				5.6		
2/8/2022			15.2	6		
2/9/2022	2.3	9.8				
2/10/2022						24.8
2/11/2022					7.5	
8/30/2022		7.3				24.8
8/31/2022	2.4		16.3	6.2	8.9	

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				12	2.5	
6/2/2016	2.4		1.3			
7/25/2016					2.16	
7/26/2016	2.12		1.24	11		
8/31/2016		9.31				
9/13/2016				11.8	2.21	
9/14/2016	2.18					23.5
9/15/2016			1.17			
11/1/2016				11		
11/2/2016			1.23			
11/4/2016	2.17 (J)				2.67	23.7
11/28/2016		9.47 (B)				
12/15/2016						23.1
1/10/2017			1.24			
1/11/2017				11.2		
1/12/2017	2.37					
1/16/2017					2.45	23.3
2/22/2017		10.4				
3/2/2017				11	2.57	
3/3/2017						25.1
3/7/2017	2.34					
3/8/2017			1.21			
4/26/2017			1.14			
4/27/2017				11.1	2.38	
4/28/2017						30.7
5/2/2017	2.17					
5/8/2017		14.2				
5/26/2017						26.2
6/27/2017	2.13			13.8	2.36	
6/28/2017						26.1
6/30/2017			1.24			
7/17/2017		14.1				
10/3/2017	2.15			14	2.21	26.7
10/5/2017			1.11			
10/16/2017		13.6				
2/19/2018		<25				
6/5/2018				15.2 (J)		
6/6/2018					2.3	
6/7/2018	2.3					25
6/8/2018			1.1			
8/6/2018		11.4 (J)				
9/26/2018	2.3					
10/1/2018			0.99	15.1	1.8	25
2/25/2019		12.7 (J)				
3/28/2019				13.3 (J)	2.2	
3/29/2019			1.1			23.5 (J)
4/3/2019	2.8					
6/12/2019		18.9				
9/24/2019	2.5			15.8	2.3	26.4
9/25/2019			1.1			
10/8/2019		28.3				
3/17/2020		24.3				

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			1.1		2.1	
3/19/2020				15		27.4
3/24/2020	2.5					
9/22/2020	2.6	31				
9/23/2020				14.1	1.8	26.3
9/25/2020			1.3			
3/2/2021	2.6	34.2	1.2			
3/3/2021				14.1	1.8	25.6
8/19/2021			1.2	14.2	2	
8/20/2021		26.5				
8/26/2021	2.5					
8/27/2021						22.6
2/8/2022		25.6				
2/9/2022				14.9	2.1	23.4
2/10/2022	2.5		1.3			
8/30/2022	2.5	23.5		14.9		25.4
8/31/2022			1.3		1.9	



# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			21		
6/2/2016	1.3	28			
7/25/2016	1.17		20.3		
7/26/2016		24.5			
9/1/2016				96.8	
9/14/2016			19.7		
9/15/2016		27			
9/19/2016	1.05				
11/1/2016	1.14	25.6	18.4		
11/16/2016				107	
1/11/2017		27.5	20.3		
1/16/2017	1.23				
2/21/2017	1.25				
2/27/2017				104	
3/1/2017			18.6		
3/2/2017		27.5			
4/26/2017	1.03	30.4	25.6		
5/8/2017				103	
6/28/2017		29.8	23.9		
6/30/2017	1.13				
7/13/2017				83.7	
10/4/2017	1.09	29.7	22.1		
10/11/2017				69	
4/4/2018				51.9	
6/7/2018		29.1			
6/8/2018			21.9 (J)		
6/11/2018	1.1				
9/19/2018				51.9	
10/1/2018		26.9	19.7		
10/2/2018	1.1				
3/27/2019				54.2	
4/1/2019	1.3	30.1	20.4 (J)		
9/25/2019	1.1	29.5	22.4		
10/9/2019				64.2	
3/17/2020				70.4	
3/19/2020	1.2	31.5	21.9		
7/6/2020				105	
8/27/2020					52.3
8/28/2020				102	
9/22/2020					53.5
9/23/2020		28.6	23.6	104	
9/24/2020	1.1				
10/7/2020				105	53.8
11/12/2020				110	53.6
3/1/2021	1.2				50.6
3/2/2021				110	
3/3/2021		29.8	20.6		
8/19/2021	1.2	28.1			
8/20/2021					47.9
8/27/2021			24.7	108	
2/9/2022		30.3	23.7	109	42.2
2/11/2022	1.5				

# Time Series

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	1.3	28.7	23.5	110	41.8

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					6.8	6.4
6/7/2016				4.5		
7/27/2016				4.5	6.7	6.2
8/30/2016	5.2					
8/31/2016		13	5.8			
9/16/2016				4.5		6.1
9/19/2016					7	
11/3/2016				5.4	7.5	7.4
11/14/2016	6.4		5.8			
11/15/2016		14				
1/11/2017				4.7	6.5	6.1
2/24/2017	5.5					
2/27/2017			5			
2/28/2017		12				
3/1/2017					6.9	6
3/2/2017				4.8		
4/26/2017					7	6.5
5/2/2017				4.6		
5/8/2017	5.8	13				
5/9/2017			4.6			
6/28/2017					7	6.4
6/29/2017				4.5		
7/11/2017	5.8					
7/13/2017		13	4.7			
10/4/2017				4.7		6.8
10/5/2017					7	
10/10/2017	5.9	14	4.5			
4/2/2018	4.8					
4/3/2018			4.6			
4/4/2018		13.4				
6/7/2018					6.8	
6/11/2018				4.9		6.8
9/19/2018	4	14.2	4.7			
9/25/2018				5.6	7.9	7.8
3/27/2019	4.3	14	4.6			
4/2/2019				4.8		
4/3/2019					6.9	6.3
9/25/2019				5.7		
9/26/2019					7	7.1
10/8/2019	4.4	14.8				
10/9/2019			5.1			
3/17/2020	4.1	14	4.6			
3/24/2020				5	7	6.8
9/22/2020	4.2	14.4				
9/23/2020			4.9	6.6	7.2	7.2
3/1/2021	3.7	14	5			
3/3/2021				7.1	7	7.2
8/19/2021	3.5	13	4.1			
8/26/2021						7.3
8/27/2021				8.5	7.4	
2/8/2022	3.2					
2/9/2022		13.5	4.9	10.9	7.5	7

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				12	7.9	7
8/31/2022	3.5	14.5	5.4			

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					3.7	7.2
6/7/2016	1.9	2.8				
7/26/2016					3.6	6.6
7/27/2016	1.9					
7/28/2016		2.6				
9/14/2016					3.4	6.6
9/19/2016	1.9	2.4				
11/2/2016	2.6				4.5	7.6
11/3/2016		2.9				
1/12/2017						6.8
1/13/2017	2.3	2.5			4.2	
3/6/2017	1.9	2.1			3.6	
3/7/2017						6.8
4/26/2017	2	2.1				
5/1/2017					4.3	7.2
6/27/2017						7
6/29/2017	2.6	2.8			4.2	
10/3/2017		2.2				6.5
10/4/2017	2.6					
10/5/2017					4.7	
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					4.7
6/7/2018					4.4	
6/28/2018			2.1	5		
8/7/2018			1.2	4.3		
9/24/2018			1.3	4.9		
9/25/2018	3.6	2.2				
9/26/2018					4.8	4.8
3/26/2019				4.4		
3/27/2019			1.4			
4/2/2019		2.5				
4/3/2019	3.1				4.3	4
9/24/2019		3.1				3.7
9/25/2019	2.8				4.5	
10/9/2019			2.1	5.1		
3/24/2020	2.7	2.8		4.7		3.5
3/25/2020			1.9		3.9	
9/22/2020					4.5	3.6
9/24/2020	2.7	2	2.7	5		
3/2/2021						3.2
3/3/2021	2.7				4.1	
3/4/2021		1.8	4.9	4.9		
8/26/2021			7.2		4.4	3.4
8/27/2021	2.8					

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		1.8				
9/3/2021				5.5		
2/8/2022			7.4	6.2		
2/9/2022	2.8	1.7				
2/10/2022						3.2
2/11/2022					4.1	
8/30/2022		2.4				3.5
8/31/2022	2.9		6.7	6.3	4.4	

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				1.3	1.6	
6/2/2016	4.3		4.1			
7/25/2016					1.4	
7/26/2016	4.4		4	1.2		
8/31/2016		4				
9/13/2016				1.1	1.3	
9/14/2016	3.8					1.1
9/15/2016			4.2			
11/1/2016				1.3		
11/2/2016			4.9			
11/4/2016	4.8				1.6	1.4
11/28/2016		4.2				
12/15/2016						2.9
1/10/2017			4.1			
1/11/2017				1.1		
1/12/2017	3.8					
1/16/2017					1.4	0.98
2/22/2017		3.7				
3/2/2017				1	1.3	
3/3/2017						1.1
3/7/2017	4.5					
3/8/2017			4.2			
4/26/2017			4.1			
4/27/2017				1	1.3	
4/28/2017						0.91
5/2/2017	4.6					
5/8/2017		4.2				
5/26/2017						0.93
6/27/2017	4.3			1.1	1.4	
6/28/2017						1
6/30/2017			3.7			
7/17/2017		3.8				
10/3/2017	4.2			1.1	1.7	1.2
10/5/2017			3.8			
10/16/2017		4.2				
2/19/2018		4.3				
6/5/2018				1.1		
6/6/2018					1.4	
6/7/2018	4.5					1
6/8/2018			3.4			
8/6/2018		3.8				
9/26/2018	5.1					
10/1/2018			3.8	1.1	1.4	1.1
2/25/2019		4.1				
3/28/2019				1.4	1.5	
3/29/2019			4.2			1.2
4/3/2019	4.2					
6/12/2019		4.7				
9/24/2019	4.5			1.1	1.3	0.95 (J)
9/25/2019			4.8			
10/8/2019		5.1				
3/17/2020		4.8				

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			5.2		1.4	
3/19/2020				1.1		0.97 (J)
3/24/2020	4.3					
9/22/2020	4.2	4.2				
9/23/2020				0.99 (J)	1.2	0.88 (J)
9/25/2020			5.3			
3/2/2021	4.3	4.1	4.9			
3/3/2021				0.96 (J)	1.2	0.86 (J)
8/19/2021			5	1.1	1.3	
8/20/2021		5.2				
8/26/2021	4.3					
8/27/2021						0.99 (J)
2/8/2022		5.7				
2/9/2022				1	1.3	1 (J)
2/10/2022	4.4		4.7			
8/30/2022	4.4	6.3		1.3		1.2
8/31/2022			4.6		1.5	



# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			1.3		
6/2/2016	1.9	1.4			
7/25/2016	1.7		1.3		
7/26/2016		1.6			
9/1/2016				37	
9/14/2016			1.3		
9/15/2016		1.5			
9/19/2016	1.6				
11/1/2016	1.8	1.7	1.4		
11/16/2016				37	
1/11/2017		1.2	1.1		
1/16/2017	1.7				
2/21/2017	1.7				
2/27/2017				33	
3/1/2017			1.1		
3/2/2017		1.2			
4/26/2017	1.7	1.2	1.1		
5/8/2017				33	
6/28/2017		1.3	1.2		
6/30/2017	1.8				
7/13/2017				32	
10/4/2017	1.8	1.5	1.2		
10/11/2017				29	
4/4/2018				26.6	
6/7/2018		1.2			
6/8/2018			1.2		
6/11/2018	2				
9/19/2018				26.5	
10/1/2018		1.5	1.2		
10/2/2018	1.8				
3/27/2019				20.9	
4/1/2019	1.7	1.2	1.1		
9/25/2019	1.6	1.1	1.1		
10/9/2019				25	
3/17/2020				24.8	
3/19/2020	1.8	1.2	1.1		
7/6/2020				25.8	
8/27/2020					3.9
8/28/2020				25.9	
9/22/2020					4.1
9/23/2020		1.1	1	28.1	
9/24/2020	1.5				
10/7/2020				28.2	4
11/12/2020				26.7	3.8
3/1/2021	1.6				3.7
3/2/2021				27.4	
3/3/2021		1.1	0.99 (J)		
8/19/2021	1.6	1.1			
8/20/2021					3.1
8/27/2021			1.1	29.3	
2/9/2022		1.1	1.1	28.2	3.2
2/11/2022	2.1				

# Time Series

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	1.8	1.3	1.3	29.9	3.4

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.0012 (J)	<0.005
6/7/2016				<0.005		
7/27/2016				0.0008 (J)	0.0007 (J)	0.0006 (J)
8/30/2016	<0.005					
8/31/2016		<0.005	<0.005			
9/16/2016				<0.005		<0.005
9/19/2016					<0.005	
11/3/2016				<0.005	<0.005	<0.005
11/14/2016	0.0093 (J)		0.0061 (J)			
11/15/2016		<0.005				
1/11/2017				<0.005	<0.005	<0.005
2/24/2017	<0.005					
2/27/2017			<0.005			
2/28/2017		<0.005				
3/1/2017					0.0012 (J)	<0.005
3/2/2017				0.001 (J)		
4/26/2017					0.0005 (J)	0.0003 (J)
5/2/2017				0.0007 (J)		
5/8/2017	<0.005	<0.005				
5/9/2017			<0.005			
6/28/2017					0.0006 (J)	<0.005
6/29/2017				0.0006 (J)		
7/11/2017	<0.005					
7/13/2017		<0.005	0.0006 (J)			
10/10/2017	<0.005	<0.005	<0.005			
3/28/2018				<0.005	<0.005	<0.005
4/2/2018	<0.005					
4/3/2018			<0.005			
4/4/2018		<0.005				
9/19/2018	<0.005	<0.005	<0.005			
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
8/20/2019	<0.005	<0.005	<0.005			
2/11/2020				0.00087 (J)	0.001 (J)	0.00088 (J)
3/24/2020				0.00087 (J)	0.00095 (J)	0.0011 (J)
8/27/2020	<0.005	<0.005				
8/28/2020			<0.005			
9/22/2020	<0.005	<0.005				
9/23/2020			0.00058 (J)	0.00098 (J)	0.00092 (J)	0.0012 (J)
2/9/2021					0.00083 (J)	0.0013 (J)
3/1/2021	<0.005	<0.005	<0.005			
3/3/2021				0.00082 (J)	0.00087 (J)	0.001 (J)
8/19/2021	<0.005	<0.005	<0.005			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	<0.005					
2/9/2022		<0.005	<0.005	<0.005	<0.005	0.0014 (J)
8/30/2022				<0.005	<0.005	0.0015 (J)
8/31/2022	<0.005	<0.005	<0.005			

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.005	<0.005
6/7/2016	<0.005	<0.005				
7/26/2016					<0.005	<0.005
7/27/2016	0.0005 (J)					
7/28/2016		<0.005				
9/14/2016					<0.005	<0.005
9/19/2016	<0.005	<0.005				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		<0.005				
1/12/2017						<0.005
1/13/2017	<0.005	<0.005			<0.005	
3/6/2017	<0.005	<0.005			<0.005	
3/7/2017						<0.005
4/26/2017	0.0007 (J)	<0.005				
5/1/2017					<0.005	0.0004 (J)
6/27/2017						<0.005
6/29/2017	0.0005 (J)	<0.005			<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			
3/29/2018	<0.005	<0.005			<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		
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	<0.005				
8/21/2019			<0.005	0.00053 (J)		
10/9/2019			<0.005	0.0012 (J)		
2/12/2020	0.00045 (J)	<0.005	<0.005	0.00065 (J)	<0.005	<0.005
3/24/2020	0.00077 (J)	<0.005		0.00055 (J)		<0.005
3/25/2020			<0.005		0.00058 (J)	
9/22/2020					<0.005	0.0011 (J)
9/24/2020	0.00076 (J)	<0.005	<0.005	<0.005		
2/8/2021						<0.005
2/9/2021	0.00056 (J)	<0.005			<0.005	
2/10/2021			<0.005	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				0.0013 (J)	
3/4/2021		<0.005	<0.005	<0.005		
8/26/2021			<0.005		<0.005	<0.005
8/27/2021	<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				
2/10/2022						<0.005
2/11/2022					<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
8/30/2022		<0.005				<0.005
8/31/2022	<0.005		<0.005	<0.005	<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		0.0029				
9/11/2007		0.0084				
3/20/2008		0.0027				
8/27/2008		0.0026				
3/3/2009		0.0022				
11/18/2009		0.0036				
3/3/2010		<0.005				
9/8/2010		<0.005				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		<0.005				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		<0.005				
2/5/2014		0.0059				
8/5/2014		<0.005				
2/4/2015		<0.005				
8/3/2015		0.0011 (J)				
2/16/2016		<0.005				
6/1/2016				0.0035	<0.005	
6/2/2016	<0.005		<0.005			
7/25/2016					<0.005	
7/26/2016	<0.005		<0.005	<0.005		
8/31/2016		<0.005				
9/13/2016				<0.005	<0.005	
9/14/2016	<0.005					<0.005
9/15/2016			<0.005			
11/1/2016			<0.005	<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				<0.005	<0.005
11/28/2016		<0.005				
12/15/2016						<0.005
1/10/2017			<0.005			
1/11/2017				<0.005		
1/12/2017	<0.005					
1/16/2017					<0.005	<0.005
2/22/2017		<0.005				
3/2/2017				0.0009 (J)	0.0004 (J)	
3/3/2017						0.0005 (J)
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				<0.005	<0.005	
4/28/2017						0.0004 (J)
5/2/2017	<0.005					
5/8/2017		<0.005				
5/26/2017						<0.005
6/27/2017	<0.005			<0.005	<0.005	
6/28/2017						<0.005
6/30/2017			<0.005			
7/17/2017		<0.005				
10/16/2017		<0.005				

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						<0.005
3/29/2018	<0.005			<0.005		
8/6/2018		<0.005				
2/25/2019		<0.005				
2/26/2019			<0.005			
2/27/2019				<0.005	<0.005	<0.005
3/4/2019	<0.005					
3/28/2019				<0.005	0.0021 (J)	
3/29/2019			<0.005			<0.005
6/12/2019		<0.005				
8/19/2019		<0.005				
9/24/2019				0.00072 (J)	0.0028 (J)	<0.005
9/25/2019			<0.005			
10/8/2019		<0.005				
2/10/2020				0.00042 (J)	<0.005	
2/11/2020						<0.005
2/12/2020	0.00043 (J)		<0.005			
3/17/2020		<0.005				
3/18/2020			<0.005		0.00044 (J)	
3/19/2020				0.00084 (J)		0.00048 (J)
3/24/2020	0.0014 (J)					
8/26/2020		<0.005				
9/22/2020	<0.005	<0.005				
9/23/2020				0.00062 (J)	0.00058 (J)	<0.005
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				<0.005	<0.005	
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	<0.005
8/19/2021			<0.005	<0.005	<0.005	
8/20/2021		<0.005				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		<0.005				
2/9/2022				<0.005	<0.005	<0.005
2/10/2022	<0.005		<0.005			
8/30/2022	<0.005	<0.005		0.0011 (J)		<0.005
8/31/2022			<0.005		<0.005	

# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	<0.005	0.0013 (J)			
7/25/2016	<0.005		<0.005		
7/26/2016		<0.005			
9/1/2016				<0.005	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	<0.005				
11/1/2016	<0.005	<0.005	<0.005		
11/16/2016				<0.005	
1/11/2017		<0.005	<0.005		
1/16/2017	<0.005				
2/21/2017	<0.005				
2/27/2017				<0.005	
3/1/2017			0.0004 (J)		
3/2/2017		0.0006 (J)			
4/26/2017	0.0016 (J)	<0.005	<0.005		
5/8/2017				<0.005	
6/28/2017		<0.005	<0.005		
6/30/2017	<0.005				
7/13/2017				<0.005	
10/11/2017				<0.005	
3/27/2018	<0.005				
3/28/2018		<0.005	<0.005		
4/4/2018				<0.005	
9/19/2018				<0.005	
2/26/2019	<0.005				
2/27/2019		<0.005	<0.005		
4/1/2019	<0.005	<0.005	<0.005		
8/21/2019				<0.005	
9/25/2019	<0.005	0.0014 (J)	0.0019 (J)		
2/11/2020			<0.005		
2/12/2020	<0.005	<0.005			
3/19/2020	<0.005	<0.005	<0.005		
7/6/2020				<0.005	
8/27/2020					<0.005
8/28/2020				<0.005	
9/22/2020					0.00073 (J)
9/23/2020		<0.005	<0.005	<0.005	
9/24/2020	<0.005				
10/7/2020				<0.005	0.00086 (J)
11/12/2020				<0.005	<0.005
2/10/2021		<0.005	<0.005		
2/11/2021	<0.005				
3/1/2021	<0.005				0.00094 (J)
3/2/2021				<0.005	
3/3/2021		<0.005	<0.005		
8/19/2021	<0.005	<0.005			
8/20/2021					<0.005
8/27/2021			<0.005	<0.005	
2/9/2022		<0.005	<0.005	<0.005	0.0012 (J)
2/11/2022	<0.005				



# Time Series

Constituent: Chromium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.005	0.00061 (J)
6/7/2016				<0.005		
7/27/2016				<0.005	<0.005	0.0004 (J)
8/30/2016	0.0073 (J)					
8/31/2016		0.0119	0.0009 (J)			
9/16/2016				<0.005		0.0008 (J)
9/19/2016					<0.005	
11/3/2016				<0.005	<0.005	<0.005
11/14/2016	0.0115		0.0009 (J)			
11/15/2016		0.0033 (J)				
1/11/2017				<0.005	<0.005	<0.005
2/24/2017	0.0106					
2/27/2017			0.001 (J)			
2/28/2017		0.0017 (J)				
3/1/2017					<0.005	<0.005
3/2/2017				<0.005		
4/26/2017					<0.005	<0.005
5/2/2017				<0.005		
5/8/2017	0.0099 (J)	0.0018 (J)				
5/9/2017			0.0008 (J)			
6/28/2017					<0.005	<0.005
6/29/2017				<0.005		
7/11/2017	0.0096 (J)					
7/13/2017		0.0022 (J)	0.0009 (J)			
10/10/2017	0.0036 (J)	0.0017 (J)	0.0008 (J)			
3/28/2018				<0.005	<0.005	<0.005
4/2/2018	<0.005					
4/3/2018			<0.01 (O)			
4/4/2018		<0.005				
6/7/2018					<0.005	
6/11/2018				<0.005		<0.005
9/19/2018	0.0036 (J)	0.0025 (J)	0.00081 (J)			
9/25/2018				<0.005	<0.005	<0.005
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
4/2/2019				<0.005		
4/3/2019					<0.005	<0.005
8/20/2019	0.00092 (J)	0.002 (J)	0.00071 (J)			
9/25/2019				<0.005		
9/26/2019					<0.005	<0.005
10/8/2019	0.0014 (J)	0.0017 (J)				
10/9/2019			0.0007 (J)			
2/11/2020				<0.005	<0.005	<0.005
3/17/2020	0.0017 (J)	0.004 (J)	0.00081 (J)			
3/24/2020				<0.005	<0.005	<0.005
8/27/2020	0.0011 (J)	0.003 (J)				
8/28/2020			0.00055 (J)			
9/22/2020	0.00097 (J)	0.0065				
9/23/2020			0.00053 (J)	<0.005	<0.005	<0.005
2/9/2021					<0.005	<0.005
3/1/2021	0.001 (J)	0.0033 (J)	0.00062 (J)			
3/3/2021				<0.005	<0.005	<0.005

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	0.00099 (J)	0.0014 (J)	0.00048 (J)			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	0.0013 (J)					
2/9/2022		0.0027 (J)	0.00051 (J)	<0.005	<0.005	<0.005
8/30/2022				<0.005	<0.005	<0.005
8/31/2022	0.00096 (J)	0.00099 (J)	0.00069 (J)			

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.00082 (J)	<0.005
6/7/2016	<0.005	0.0056				
7/26/2016					0.0012 (J)	<0.005
7/27/2016	<0.005					
7/28/2016		0.0032 (J)				
9/14/2016					0.0006 (J)	<0.005
9/19/2016	<0.005	0.0047 (J)				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		0.013				
1/12/2017						<0.005
1/13/2017	<0.005	0.011			0.0029 (J)	
3/6/2017	<0.005	0.011			0.0006 (J)	
3/7/2017						<0.005
4/26/2017	<0.005	0.009 (J)				
5/1/2017					<0.005	<0.005
6/27/2017						<0.005
6/29/2017	<0.005	0.0093 (J)			0.0005 (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			
3/29/2018	<0.005	<0.005			<0.005	<0.005
4/3/2018			<0.005	<0.005		
6/5/2018		0.0041 (J)				
6/6/2018	<0.005					<0.005
6/7/2018					0.00058 (J)	
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	0.0044 (J)				
9/26/2018					<0.005	<0.005
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	0.0039 (J)				
4/2/2019		0.0039 (J)				
4/3/2019	<0.005				0.00083 (J)	<0.005
8/21/2019			0.00034 (J)	<0.005		
9/24/2019		0.0032 (J)				<0.005
9/25/2019	<0.005				<0.005	
10/9/2019			<0.005	<0.005		
2/12/2020	<0.005	0.0081	0.00034 (J)	<0.005	<0.005	0.00037 (J)
3/24/2020	<0.005	0.0061		<0.005		0.00035 (J)
3/25/2020			0.00034 (J)		0.00056 (J)	
9/22/2020					<0.005	<0.005
9/24/2020	<0.005	0.0079	0.00053 (J)	<0.005		
2/8/2021						<0.005
2/9/2021	<0.005	0.009			<0.005	
2/10/2021			0.00098 (J)	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				<0.005	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.0065	0.00071 (J)	<0.005		
8/26/2021			0.0011 (J)		0.00042 (J)	<0.005
8/27/2021	<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	0.0078				
2/10/2022						<0.005
2/11/2022					<0.005	
8/30/2022		0.0066				<0.005
8/31/2022	<0.005		0.00085 (J)	<0.005	<0.005	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		0.0067				
9/11/2007		<0.005				
3/20/2008		<0.005				
8/27/2008		<0.005				
3/3/2009		<0.005				
11/18/2009		<0.005				
3/3/2010		0.0027				
9/8/2010		0.007				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		0.0032				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		0.0045				
2/5/2014		<0.005				
8/5/2014		0.0027				
2/4/2015		0.0016				
8/3/2015		0.002				
2/16/2016		0.0027				
6/1/2016				<0.005	0.00082 (J)	
6/2/2016	<0.005		<0.005			
7/25/2016					0.0008 (J)	
7/26/2016	<0.005		<0.005	<0.005		
8/31/2016		0.0053 (J)				
9/13/2016				<0.005	0.0009 (J)	
9/14/2016	<0.005					<0.005
9/15/2016			<0.005			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				0.0025 (J)	<0.005
11/28/2016		0.0036 (J)				
12/15/2016						<0.005
1/10/2017			<0.005			
1/11/2017				<0.005		
1/12/2017	<0.005					
1/16/2017					0.0027 (J)	<0.005
2/22/2017		0.0049 (J)				
3/2/2017				<0.005	0.0022 (J)	
3/3/2017						<0.005
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				<0.005	0.0018 (J)	
4/28/2017						<0.005
5/2/2017	<0.005					
5/8/2017		0.0059 (J)				
5/26/2017						<0.005
6/27/2017	<0.005			<0.005	0.0023 (J)	
6/28/2017						<0.005
6/30/2017			<0.005			
7/17/2017		0.0046 (J)				
10/16/2017		0.0034 (J)				

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						<0.005
3/29/2018	<0.005			<0.005		
6/5/2018				<0.005		
6/6/2018					<0.005	
6/7/2018	<0.005					<0.005
6/8/2018			<0.005			
8/6/2018		0.003 (J)				
9/26/2018	<0.005					
10/1/2018			<0.005	<0.005	0.00059 (J)	<0.005
2/25/2019		0.001 (J)				
2/26/2019			<0.005			
2/27/2019				<0.005	0.00064 (J)	<0.005
3/4/2019	<0.005					
3/28/2019				<0.005	0.00091 (J)	
3/29/2019			<0.005			<0.005
4/3/2019	<0.005					
6/12/2019		0.003 (J)				
8/19/2019		0.0035 (J)				
9/24/2019	<0.005			<0.005	0.0013 (J)	<0.005
9/25/2019			<0.005			
10/8/2019		0.0039 (J)				
2/10/2020				<0.005	0.0016 (J)	
2/11/2020						<0.005
2/12/2020	<0.005		<0.005			
3/17/2020		0.003 (J)				
3/18/2020			<0.005		0.00087 (J)	
3/19/2020				<0.005		<0.005
3/24/2020	<0.005					
8/26/2020		0.2 (O)				
9/22/2020	<0.005	0.16 (O)				
9/23/2020				<0.005	0.0013 (J)	<0.005
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				0.00086 (J)	0.0028 (J)	
3/2/2021	<0.005	0.21 (O)	<0.005			
3/3/2021				<0.005	0.003 (J)	<0.005
8/19/2021			<0.005	0.00055 (J)	0.0017 (J)	
8/20/2021		0.074 (O)				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		0.072 (O)				
2/9/2022				0.00072 (J)	0.0023 (J)	<0.005
2/10/2022	<0.005		<0.005			
8/30/2022	<0.005	0.075 (O)		<0.005		<0.005
8/31/2022			<0.005		0.00085 (J)	

# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	0.035	<0.005			
7/25/2016	0.0312		<0.005		
7/26/2016		<0.005			
9/1/2016				0.0171	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	0.0275				
11/1/2016	0.0255	<0.005	<0.005		
11/16/2016				0.0145	
1/11/2017		<0.005	<0.005		
1/16/2017	0.0245				
2/21/2017	0.0272				
2/27/2017				0.0161	
3/1/2017			<0.005		
3/2/2017		<0.005			
4/26/2017	0.0244	<0.005	<0.005		
5/8/2017				0.0367	
6/28/2017		<0.005	<0.005		
6/30/2017	0.0233				
7/13/2017				0.0265	
10/11/2017				0.0556	
3/27/2018	0.023				
3/28/2018		<0.005	<0.005		
4/4/2018				0.025	
6/7/2018		<0.005			
6/8/2018			<0.005		
6/11/2018	0.023				
9/19/2018				0.042	
10/1/2018		<0.005	<0.005		
10/2/2018	0.022				
2/26/2019	0.021				
2/27/2019		<0.005	<0.005		
4/1/2019	0.022	<0.005	<0.005		
8/21/2019				0.027	
9/25/2019	0.016	<0.005	<0.005		
10/9/2019				0.024	
2/11/2020			<0.005		
2/12/2020	0.014	<0.005			
3/17/2020				0.022	
3/19/2020	0.014	<0.005	<0.005		
7/6/2020				0.0041 (J)	
8/27/2020					0.0022 (J)
8/28/2020				0.0038 (J)	
9/22/2020					0.0019 (J)
9/23/2020		<0.005	<0.005	0.0015 (J)	
9/24/2020	0.0064				
10/7/2020				0.0014 (J)	0.0019 (J)
11/12/2020				0.001 (J)	0.0015 (J)
2/10/2021		<0.005	<0.005		
2/11/2021	0.0078				
3/1/2021	0.0061				0.0013 (J)



# Time Series

Constituent: Cobalt (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.00096 (J)	
3/3/2021		<0.005	<0.005		
8/19/2021	0.0052	<0.005			
8/20/2021					0.0013 (J)
8/27/2021			<0.005	0.00056 (J)	
2/9/2022		<0.005	<0.005	0.0006 (J)	0.0015 (J)
2/11/2022	0.0038 (J)				
8/31/2022	0.004 (J)	<0.005	<0.005	0.0017 (J)	0.00096 (J)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.0804 (U)	0.301 (U)
6/7/2016				0.158 (U)		
7/27/2016				0.0354 (U)	0.206 (U)	0.196 (U)
8/30/2016	1.09					
8/31/2016		2.15	1.65			
9/16/2016				1.04		0.915 (U)
9/19/2016					1.58	
11/3/2016				0.314 (U)	0.342 (U)	0.928 (U)
11/14/2016			0.981 (U)			
11/15/2016		0.676 (U)				
12/15/2016	1 (U)					
1/11/2017				0.34 (U)	0.365 (U)	0.502 (U)
2/24/2017	0.504 (U)					
2/27/2017			0.528 (U)			
2/28/2017		0.241 (U)				
3/1/2017					0.395 (U)	0.202 (U)
3/2/2017				0.746 (U)		
4/26/2017					0.507 (U)	0.264 (U)
5/2/2017				0.111 (U)		
5/8/2017	0.455 (U)	0.508 (U)				
5/9/2017			1.4			
6/28/2017					0.892	0.636 (U)
6/29/2017				0.576 (U)		
7/11/2017	0.471 (U)					
7/13/2017		0.77 (U)	0.611 (U)			
10/10/2017	0.649 (U)	1.43	1.47			
3/28/2018				0.438 (U)	0.92 (U)	0.56 (U)
4/2/2018	0.512 (U)					
4/3/2018			1.53			
4/4/2018		0.325 (U)				
6/7/2018					0.668 (U)	
6/11/2018				0.901 (U)		0.649 (U)
9/19/2018	0.789 (U)	0.386 (U)	0.839 (U)			
9/25/2018				0.68 (U)	0.141 (U)	0.574 (U)
3/5/2019				0.272 (U)		0.474 (U)
3/6/2019					0.714 (U)	
4/2/2019				0.847 (U)		
4/3/2019					0.385 (U)	0.429 (U)
8/20/2019	2.44	1.71	2.23			
9/25/2019				0.412 (U)		
9/26/2019					0.386 (U)	0.222 (U)
10/8/2019	1.72	0.769 (U)				
10/9/2019			1.61			
2/11/2020				0.461 (U)	1.48	0.597 (U)
3/17/2020	1.22 (U)	1.37	1.44			
3/24/2020				0.534 (U)	0.632 (U)	0.262 (U)
8/27/2020	1.26 (U)	0.0859 (U)				
8/28/2020			0.983 (U)			
9/22/2020	1.06 (U)	0.327 (U)				
9/23/2020			0.746 (U)	0.466 (U)	0.887 (U)	0.43 (U)
2/9/2021				0.529 (U)	0.314 (U)	0.259 (U)
3/1/2021	1.2	0.0694 (U)	1.28			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
3/3/2021				0.59 (U)	0.565 (U)	0.352 (U)
8/19/2021	1.07 (U)	0.261 (U)	1.38			
8/26/2021						0.686 (U)
8/27/2021				0.9 (U)	0.761 (U)	
2/8/2022	0.4 (U)					
2/9/2022		0.332 (U)	1.11	0.133 (U)	0.571 (U)	0.0618 (U)
8/30/2022				1.08	1.01	0.611 (U)
8/31/2022	0.714 (U)	0.145 (U)	0.598 (U)			

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.721	5.11
6/7/2016	0.0191 (U)	0.347				
7/26/2016					1.26	6.92
7/27/2016	0.541 (U)					
7/28/2016		0.815 (U)				
9/14/2016					0.901 (U)	3.96
9/19/2016	0.826 (U)	0.862 (U)				
11/2/2016	0.791 (U)				1.09 (U)	4.53
11/3/2016		0.797 (U)				
1/12/2017						4.43
1/13/2017	0.296 (U)	0.72 (U)			1.19	
3/6/2017	0.518 (U)	0.518 (U)			0.669 (U)	
3/7/2017						4.8
4/26/2017	0.282 (U)	1.13 (U)				
5/1/2017					0.803 (U)	4.16
6/27/2017						2.8
6/29/2017	1.12	0.841 (U)			1.35	
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			
3/29/2018	1.73	1.91			0.703 (U)	3.42
4/3/2018			0.385 (U)	0.68 (U)		
6/5/2018		1.39				
6/6/2018	0.694 (U)					3.99
6/7/2018					0.628 (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	0.772 (U)	1.62				
9/26/2018					0.756 (U)	2.73
3/4/2019					1.21 (U)	4.43
3/5/2019	0.84 (U)	0.985 (U)				
4/2/2019		1.42				
4/3/2019	1.01				1.07 (U)	4.79
8/21/2019			1.01 (U)	1.24 (U)		
9/24/2019		1.35				4.06
9/25/2019	1.18 (U)				1.86	
10/8/2019			1.02 (U)	0.866 (U)		
2/12/2020	1.11 (U)	1.61	0.45 (U)	1.83	1.25	4.02
3/24/2020	1.88	1.24 (U)		1.27 (U)		3.52
3/25/2020			0.377 (U)		0.766 (U)	
9/22/2020					0.795 (U)	2.98
9/24/2020	0.611 (U)	1.8	0.568 (U)	0.634 (U)		
2/8/2021						2.89
2/9/2021	0.284 (U)	1.24			0.626 (U)	
2/10/2021			0.518 (U)	0.783 (U)		
3/2/2021						1.67
3/3/2021	0.133 (U)	1.2			1	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021			0.636 (U)	0.818 (U)		
8/26/2021			0.674 (U)		1.17 (U)	4.68
8/27/2021	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	0.504 (U)	1.94				
2/10/2022						3.33
2/11/2022					0.996	
8/30/2022		1.27				5.34
8/31/2022	0.184 (U)		0.937	0.513 (U)	0.962	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.321 (U)	0.42	
6/2/2016	0.614		0.329 (U)			
7/25/2016					1.83	
7/26/2016	1.47		1.51	0.707 (U)		
8/31/2016		1.2				
9/13/2016				1.22	0.841	
9/14/2016	1.27					0.98 (U)
9/15/2016			1.04 (U)			
11/1/2016				0.805 (U)		
11/2/2016			0.496 (U)			
11/4/2016	0.434 (U)				0.166 (U)	0.277 (U)
11/28/2016		0.264 (U)				
12/15/2016						0.071 (U)
1/10/2017			0.376 (U)			
1/11/2017				0.705 (U)		
1/12/2017	0.202 (U)					
1/16/2017					0	0.44 (U)
2/22/2017		1.06 (U)				
3/2/2017				0.251 (U)	0.504 (U)	
3/3/2017						0.448 (U)
3/7/2017	0.0674 (U)					
3/8/2017			0.0745 (U)			
4/26/2017			0.282 (U)			
4/27/2017				1.08	0.593 (U)	
4/28/2017						0.548 (U)
5/2/2017	0.444 (U)					
5/8/2017		0.187 (U)				
5/26/2017						0 (U)
6/27/2017	0.77 (U)			1.02 (U)	0.657 (U)	
6/28/2017						0.608 (U)
6/30/2017			0.994			
7/17/2017		1.42				
10/16/2017		1.17				
2/19/2018		1.58 (D)				
3/27/2018			0.189 (U)		0.39 (U)	
3/28/2018						0.412 (U)
3/29/2018	0.648 (U)			0.503 (U)		
6/5/2018				0.771 (U)		
6/6/2018					2.8	
6/7/2018	0.745 (U)					0.73 (U)
6/8/2018			0.218 (U)			
8/6/2018		0.196 (U)				
9/26/2018	0.377 (U)					
10/1/2018			1.24	0.783 (U)	1.06 (U)	0.756 (U)
2/26/2019			0.202 (U)			
2/27/2019				1.21 (U)	0.637 (U)	0.635 (U)
3/4/2019	1 (U)					
3/28/2019				1.13 (U)	0.125 (U)	
3/29/2019			0 (U)			0.224 (U)
4/3/2019	0.43 (U)					
8/19/2019		1.39				
9/24/2019	0.699 (U)			1.22 (U)	0.949 (U)	0.429 (U)

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
9/25/2019			0.707 (U)			
10/8/2019		1.32 (U)				
2/10/2020				1.41	1.25 (U)	
2/11/2020						0.817 (U)
2/12/2020	0.913 (U)		1.07 (U)			
3/17/2020		1 (U)				
3/18/2020			0.207 (U)		0.458 (U)	
3/19/2020				1.1		0.715 (U)
8/26/2020		1.75				
9/22/2020	0.428 (U)	0.688 (U)				
9/23/2020				1.35 (U)	0.00884 (U)	0.565 (U)
9/25/2020			0.603 (U)			
2/8/2021	0.613 (U)					
2/10/2021			0.353 (U)			1.04 (U)
2/12/2021				0.366 (U)	0.458 (U)	
3/2/2021	0.579 (U)	0.948 (U)	0.71 (U)			
3/3/2021				0.492 (U)	0.105 (U)	0.459 (U)
8/19/2021			0.786 (U)	1.17 (U)	0.0732 (U)	
8/20/2021		0.528 (U)				
8/26/2021	0.798 (U)					
8/27/2021						0.409 (U)
2/8/2022		0.462 (U)				
2/9/2022				1.19	0.422 (U)	0.894 (U)
2/10/2022	0.375 (U)		0 (U)			
8/30/2022	0.72 (U)	1.52		0.827		0.699 (U)
8/31/2022			0.421 (U)		0.49 (U)	

# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.896		
6/2/2016	0.0652 (U)	2.51			
7/25/2016	3.01		2.28		
7/26/2016		3.82			
9/1/2016				2.28	
9/14/2016			0.821 (U)		
9/15/2016		4.24			
9/19/2016	0.871 (U)				
11/1/2016	0.307 (U)	3.92	0.585 (U)		
11/16/2016				0.639 (U)	
11/28/2016				0.996	
1/11/2017		2.52	1.22		
1/16/2017	0.284 (U)				
2/21/2017	0.503 (U)				
2/27/2017				0.617 (U)	
3/1/2017			0.877 (U)		
3/2/2017		3.13			
4/26/2017	0.204 (U)	2.35	0.672 (U)		
5/8/2017				0.949	
6/28/2017		2.6	1.07 (U)		
6/30/2017	0.738 (U)				
7/13/2017				1.41	
10/11/2017				0.856 (U)	
3/27/2018	0.31 (U)				
3/28/2018		3	0.65 (U)		
4/4/2018				0.974	
6/7/2018		2.79			
6/8/2018			1.89		
6/11/2018	0.608 (U)				
9/19/2018				1.15 (U)	
10/1/2018		3.14	1.58		
10/2/2018	0.97 (U)				
2/26/2019	0.524 (U)				
2/27/2019		3.79	3.67		
4/1/2019	1.02 (U)	4.33	2.28		
8/21/2019				1.31	
9/25/2019	1.02 (U)	4.2	1.6		
10/9/2019				0.892 (U)	
2/11/2020		3.87	1.85		
2/12/2020	0.301 (U)				
3/17/2020				1.74	
3/19/2020	1	3.96	2.2		
7/6/2020				2.27	
8/27/2020					0.852 (U)
8/28/2020				2.34	
9/22/2020					0.268 (U)
9/23/2020		4.14	1.14 (U)	0.575 (U)	
9/24/2020	0.684 (U)				
10/7/2020				1.81	0.819 (U)
2/10/2021		3.65	2.46		
2/11/2021	0.678 (U)				
3/1/2021	0.412 (U)				0.846 (U)



# Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				1.64	
3/3/2021		3.58	2.03		
8/19/2021	0.234 (U)	3.53			
8/20/2021					0.496 (U)
8/27/2021			1.34	1.83	
2/9/2022		3.28	1.91	1.74	0.926
2/10/2022	0.268 (U)				
8/31/2022	0.506 (U)	2.12	1.33	1.51	0.322 (U)

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.1	<0.1
6/7/2016				<0.1		
7/27/2016				<0.1	<0.1	<0.1
8/30/2016	0.09 (J)					
8/31/2016		<0.1	0.11 (J)			
9/16/2016				<0.1		<0.1
9/19/2016					<0.1	
11/3/2016				<0.1	<0.1	<0.1
11/14/2016	0.18 (J)		0.71			
11/15/2016		0.12 (J)				
1/11/2017				<0.1	<0.1	<0.1
2/24/2017	0.05 (J)					
2/27/2017			0.22 (J)			
2/28/2017		0.07 (J)				
3/1/2017					<0.1	<0.1
3/2/2017				<0.1		
4/26/2017					<0.1	<0.1
5/2/2017				<0.1		
5/8/2017	0.03 (J)	0.04 (J)				
5/9/2017			0.2 (J)			
6/28/2017					<0.1	<0.1
6/29/2017				<0.1		
7/11/2017	0.07 (J)					
7/13/2017		<0.1	0.11 (J)			
10/4/2017				<0.1		<0.1
10/5/2017					<0.1	
10/10/2017	<0.1	<0.1	0.39			
3/28/2018				<0.1	<0.1	<0.1
4/2/2018	<0.1					
4/3/2018			<0.1			
4/4/2018		<0.1				
6/7/2018					<0.1	
6/11/2018				<0.1		<0.1
9/19/2018	<0.1	<0.1	<0.1			
9/25/2018				<0.1	<0.1	<0.1
3/5/2019				<0.1		<0.1
3/6/2019					<0.1	
3/27/2019	0.081 (J)	<0.1	0.18 (J)			
4/2/2019				<0.1		
4/3/2019					<0.1	<0.1
8/20/2019	<0.1	<0.1	<0.1			
9/25/2019				<0.1		
9/26/2019					<0.1	<0.1
10/8/2019	0.034 (J)	<0.1				
10/9/2019			<0.1			
2/11/2020				<0.1	<0.1	<0.1
3/17/2020	<0.1	<0.1	0.076 (J)			
3/24/2020				<0.1	<0.1	<0.1
8/27/2020	<0.1	<0.1				
8/28/2020			0.07 (J)			
9/22/2020	<0.1	<0.1				
9/23/2020			0.082 (J)	<0.1	<0.1	<0.1

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/9/2021					<0.1	<0.1
3/1/2021	<0.1	<0.1	0.073 (J)			
3/3/2021				<0.1	<0.1	<0.1
8/19/2021	<0.1	<0.1	0.075 (J)			
8/26/2021						<0.1
8/27/2021				<0.1	<0.1	
2/8/2022	<0.1					
2/9/2022		<0.1	0.063 (J)	<0.1	<0.1	<0.1
8/30/2022				<0.1	<0.1	<0.1
8/31/2022	0.065 (J)	0.055 (J)	0.1			

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.1	0.11 (J)
6/7/2016	<0.1	<0.1				
7/26/2016					<0.1	0.05 (J)
7/27/2016	<0.1					
7/28/2016		0.02 (J)				
9/14/2016					<0.1	0.04 (J)
9/19/2016	<0.1	0.02 (J)				
11/2/2016	<0.1				<0.1	<0.1
11/3/2016		<0.1				
1/12/2017						0.04 (J)
1/13/2017	<0.1	<0.1			<0.1	
3/6/2017	<0.1	<0.1			<0.1	
3/7/2017						<0.1
4/26/2017	<0.1	0.04 (J)				
5/1/2017					<0.1	<0.1
6/27/2017						<0.1
6/29/2017	<0.1	<0.1			<0.1	
10/3/2017		<0.1				<0.1
10/4/2017	<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			
3/29/2018	<0.1	<0.1			<0.1	<0.1
4/3/2018			<0.1	<0.1		
6/5/2018		0.13 (J)				
6/6/2018	<0.1					0.15 (J)
6/7/2018					<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 (J)				
9/26/2018					<0.1	<0.1
3/4/2019					<0.1	0.19 (J)
3/5/2019	<0.1	0.32				
3/26/2019				<0.1		
3/27/2019			<0.1			
4/2/2019		0.12 (J)				
4/3/2019	<0.1				<0.1	0.047 (J)
8/21/2019			<0.1	<0.1		
9/24/2019		0.15 (J)				0.05 (J)
9/25/2019	<0.1				<0.1	
10/9/2019			<0.1	<0.1		
2/12/2020	<0.1	0.1 (J)	<0.1	<0.1	<0.1	<0.1
3/24/2020	<0.1	0.081 (J)		<0.1		<0.1
3/25/2020			<0.1		<0.1	
9/22/2020					<0.1	0.056 (J)
9/24/2020	<0.1	0.079 (J)	<0.1	<0.1		

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2021						0.055 (J)
2/9/2021	<0.1	0.092 (J)			<0.1	
2/10/2021			<0.1	<0.1		
3/2/2021						<0.1
3/3/2021	<0.1				<0.1	
3/4/2021		0.091 (J)	<0.1	<0.1		
8/26/2021			0.063 (J)		<0.1	0.061 (J)
8/27/2021	<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				
2/10/2022						0.055 (J)
2/11/2022					<0.1	
8/30/2022		0.1				0.085 (J)
8/31/2022	<0.1		0.065 (J)	0.05 (J)	0.061 (J)	

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.12 (J)	<0.1	
6/2/2016	<0.1		<0.1			
7/25/2016					0.06 (J)	
7/26/2016	<0.1		0.02 (J)	0.08 (J)		
8/31/2016		0.14 (J)				
9/13/2016				0.11 (J)	<0.1	
9/14/2016	<0.1					0.08 (J)
9/15/2016			<0.1			
11/1/2016				<0.1		
11/2/2016			<0.1			
11/4/2016	<0.1				<0.1	<0.1
11/28/2016		0.12 (J)				
12/15/2016						0.06 (J)
1/10/2017			<0.1			
1/11/2017				0.05 (J)		
1/12/2017	<0.1					
1/16/2017					<0.1	0.1 (J)
2/22/2017		0.09 (J)				
3/2/2017				<0.1	<0.1	
3/3/2017						<0.1
3/7/2017	<0.1					
3/8/2017			<0.1			
4/26/2017			<0.1			
4/27/2017				0.04 (J)	0.01 (J)	
4/28/2017						0.06 (J)
5/2/2017	<0.1					
5/8/2017		0.05 (J)				
5/26/2017						0.09 (J)
6/27/2017	<0.1			<0.1	<0.1	
6/28/2017						0.11 (J)
6/30/2017			<0.1			
7/17/2017		0.14 (J)				
10/3/2017	<0.1			<0.1	<0.1	<0.1
10/5/2017			<0.1			
10/16/2017		0.12 (J)				
2/19/2018		0.17				
3/27/2018			<0.1		<0.1	
3/28/2018						0.31
3/29/2018	<0.1			<0.1		
6/5/2018				0.055 (J)		
6/6/2018					<0.1	
6/7/2018	<0.1					0.11 (J)
6/8/2018			<0.1			
8/6/2018		0.087 (J)				
9/26/2018	<0.1					
10/1/2018			<0.1	<0.1	<0.1	<0.1
2/25/2019		0.14 (J)				
2/26/2019			<0.1			
2/27/2019				0.052 (J)	<0.1	0.12 (J)
3/4/2019	<0.1					
3/28/2019				0.036 (J)	<0.1	
3/29/2019			<0.1			0.13 (J)

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
4/3/2019	<0.1					
6/12/2019		0.12 (J)				
8/19/2019		<0.1				
9/24/2019	<0.1			0.063 (J)	<0.1	0.081 (J)
9/25/2019			<0.1			
10/8/2019		0.052 (J)				
2/10/2020				0.061 (J)	<0.1	
2/11/2020						0.075 (J)
2/12/2020	<0.1		<0.1			
3/17/2020		0.053 (J)				
3/18/2020			<0.1		<0.1	
3/19/2020				0.064 (J)		0.093 (J)
3/24/2020	<0.1					
8/26/2020		0.068 (J)				
9/22/2020	<0.1	0.058 (J)				
9/23/2020				0.058 (J)	<0.1	0.08 (J)
9/25/2020			<0.1			
2/8/2021	<0.1					
2/10/2021			<0.1			0.094 (J)
2/12/2021				0.068 (J)	<0.1	
3/2/2021	<0.1	0.073 (J)	<0.1			
3/3/2021				0.078 (J)	<0.1	0.085 (J)
8/19/2021			<0.1	0.074 (J)	<0.1	
8/20/2021		0.06 (J)				
8/26/2021	<0.1					
8/27/2021						0.12
2/8/2022		0.064 (J)				
2/9/2022				0.057 (J)	<0.1	0.094 (J)
2/10/2022	<0.1		<0.1			
8/30/2022	<0.1	0.086 (J)		0.093 (J)		0.12
8/31/2022			0.053 (J)		0.065 (J)	

# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.15 (J)		
6/2/2016	<0.1	0.62			
7/25/2016	0.06 (J)		0.14 (J)		
7/26/2016		0.49			
9/1/2016				0.08 (J)	
9/14/2016			0.18 (J)		
9/15/2016		0.54			
9/19/2016	<0.1				
11/1/2016	<0.1	0.68	<0.1		
11/16/2016				0.04 (J)	
1/11/2017		0.49	0.09 (J)		
1/16/2017	<0.1				
2/21/2017	<0.1				
2/27/2017				0.05 (J)	
3/1/2017			<0.1		
3/2/2017		0.48			
4/26/2017	<0.1	0.48	0.08 (J)		
5/8/2017				0.004 (J)	
6/28/2017		0.47	0.12 (J)		
6/30/2017	<0.1				
7/13/2017				0.35	
10/4/2017	<0.1	<0.1	<0.1		
10/11/2017				<0.1	
3/27/2018	<0.1				
3/28/2018		0.56	<0.1		
4/4/2018				<0.1	
6/7/2018		0.48			
6/8/2018			0.2 (J)		
6/11/2018	<0.1				
9/19/2018				<0.1	
10/1/2018		0.44	<0.1		
10/2/2018	<0.1				
2/26/2019	<0.1				
2/27/2019		0.53	0.13 (J)		
3/27/2019				0.12 (J)	
4/1/2019	<0.1	0.45	0.1 (J)		
8/21/2019				<0.1	
9/25/2019	<0.1	0.46	0.1 (J)		
10/9/2019				0.12 (J)	
2/11/2020			0.094 (J)		
2/12/2020	<0.1	0.4			
3/17/2020				<0.1	
3/19/2020	<0.1	0.51	0.11 (J)		
7/6/2020				0.12	
8/27/2020					<0.1
8/28/2020				0.12	
9/22/2020					<0.1
9/23/2020		0.47	0.098 (J)	0.12	
9/24/2020	<0.1				
10/7/2020				0.13	<0.1
11/12/2020				0.084 (J)	<0.1
2/10/2021		0.43	<0.1		



# Time Series

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
2/11/2021	<0.1				
3/1/2021	<0.1				<0.1
3/2/2021				0.12	
3/3/2021		0.44	0.1		
8/19/2021	<0.1	0.47			
8/20/2021					<0.1
8/27/2021			0.12	0.13	
2/9/2022		0.43	0.097 (J)	0.12	<0.1
2/11/2022	<0.1				
8/31/2022	0.06 (J)	0.42	0.13	0.12	0.059 (J)

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.001	<0.001
6/7/2016				<0.001		
7/27/2016				<0.001	<0.001	<0.001
8/30/2016	<0.001					
8/31/2016		<0.001	<0.001			
9/16/2016				<0.001		<0.001
9/19/2016					<0.001	
11/3/2016				<0.001	<0.001	<0.001
11/14/2016	<0.001		<0.001			
11/15/2016		<0.001				
1/11/2017				<0.001	<0.001	<0.001
2/24/2017	<0.001					
2/27/2017			<0.001			
2/28/2017		<0.001				
3/1/2017					<0.001	<0.001
3/2/2017				8E-05 (J)		
4/26/2017					<0.001	<0.001
5/2/2017				<0.001		
5/8/2017	<0.001	<0.001				
5/9/2017			0.0001 (J)			
6/28/2017					<0.001	0.0001 (J)
6/29/2017				8E-05 (J)		
7/11/2017	<0.001					
7/13/2017		<0.001	<0.001			
10/10/2017	<0.001	<0.001	<0.001			
3/28/2018				<0.001	<0.001	<0.001
4/2/2018	<0.001					
4/3/2018			<0.001			
4/4/2018		<0.001				
9/19/2018	<0.001	<0.001	<0.001			
3/5/2019				<0.001		<0.001
3/6/2019					<0.001	
4/2/2019				<0.001		
4/3/2019					<0.001	<0.001
8/20/2019	<0.001	<0.001	<0.001			
9/25/2019				<0.001		
9/26/2019					<0.001	<0.001
2/11/2020				<0.001	<0.001	<0.001
3/24/2020				6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)
8/27/2020	<0.001	<0.001				
8/28/2020			<0.001			
9/22/2020	<0.001	<0.001				
9/23/2020			<0.001	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)
2/9/2021					5E-05 (J)	9.4E-05 (J)
3/1/2021	<0.001	<0.001	<0.001			
3/3/2021				<0.001	<0.001	7.6E-05 (J)
8/19/2021	<0.001	<0.001	<0.001			
8/26/2021						<0.001
8/27/2021				<0.001	<0.001	
2/8/2022	<0.001					
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2022				<0.001	<0.001	<0.001

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/31/2022	<0.001	<0.001	<0.001			

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.001	<0.001
6/7/2016	<0.001	<0.001				
7/26/2016					<0.001	<0.001
7/27/2016	<0.001					
7/28/2016		<0.001				
9/14/2016					<0.001	<0.001
9/19/2016	<0.001	<0.001				
11/2/2016	0.0013 (J)				<0.001	<0.001
11/3/2016		<0.001				
1/12/2017						<0.001
1/13/2017	<0.001	<0.001			<0.001	
3/6/2017	<0.001	<0.001			<0.001	
3/7/2017						0.0001 (J)
4/26/2017	<0.001	<0.001				
5/1/2017					<0.001	<0.001
6/27/2017						<0.001
6/29/2017	<0.001	<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			
3/29/2018	<0.001	<0.001			<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		
3/4/2019					<0.001	<0.001
3/5/2019	<0.001	<0.001				
4/2/2019		<0.001				
4/3/2019	<0.001				<0.001	<0.001
8/21/2019			<0.001	<0.001		
9/24/2019		<0.001				<0.001
9/25/2019	<0.001				<0.001	
10/9/2019			<0.001	<0.001		
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/24/2020	0.00011 (J)	<0.001		<0.001		5.4E-05 (J)
3/25/2020			5.1E-05 (J)		<0.001	
9/22/2020					<0.001	4.5E-05 (J)
9/24/2020	9.2E-05 (J)	4.6E-05 (J)	<0.001	3.8E-05 (J)		
2/8/2021						0.00013 (J)
2/9/2021	6.3E-05 (J)	<0.001			<0.001	
2/10/2021			<0.001	<0.001		
3/2/2021						5.1E-05 (J)
3/3/2021	4.5E-05 (J)				<0.001	
3/4/2021		<0.001	<0.001	<0.001		
8/26/2021			<0.001		<0.001	<0.001
8/27/2021	<0.001					
9/1/2021		<0.001				
9/3/2021				<0.001		

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/8/2022			<0.001	<0.001		
2/9/2022	<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	

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.001				
9/11/2007		<0.001				
3/20/2008		<0.001				
8/27/2008		<0.001				
3/3/2009		<0.001				
11/18/2009		<0.001				
3/3/2010		<0.001				
9/8/2010		<0.001				
3/10/2011		<0.001				
9/8/2011		<0.001				
3/5/2012		<0.001				
9/10/2012		<0.001				
2/6/2013		<0.001				
8/12/2013		<0.001				
2/5/2014		<0.001				
8/5/2014		<0.001				
2/4/2015		<0.001				
8/3/2015		<0.001				
2/16/2016		<0.001				
6/1/2016				0.00056 (J)	<0.001	
6/2/2016	<0.001		<0.001			
7/25/2016					<0.001	
7/26/2016	<0.001		<0.001	<0.001		
8/31/2016		<0.001				
9/13/2016				0.0001 (J)	<0.001	
9/14/2016	<0.001					<0.001
9/15/2016			<0.001			
11/1/2016				<0.001		
11/2/2016			<0.001			
11/4/2016	<0.001				<0.001	<0.001
11/28/2016		<0.001				
12/15/2016						<0.001
1/10/2017			<0.001			
1/11/2017				<0.001		
1/12/2017	<0.001					
1/16/2017					<0.001	<0.001
2/22/2017		<0.001				
3/2/2017				0.0001 (J)	<0.001	
3/3/2017						<0.001
3/7/2017	7E-05 (J)					
3/8/2017			0.0001 (J)			
4/26/2017			<0.001			
4/27/2017				<0.001	<0.001	
4/28/2017						<0.001
5/2/2017	<0.001					
5/8/2017		<0.001				
5/26/2017						<0.001
6/27/2017	<0.001			<0.001	<0.001	
6/28/2017						<0.001
6/30/2017			<0.001			
7/17/2017		<0.001				
10/16/2017		<0.001				

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.001				
3/27/2018			<0.001		<0.001	
3/28/2018						<0.001
3/29/2018	<0.001			<0.001		
8/6/2018		<0.001				
2/25/2019		<0.001				
2/26/2019			<0.001			
2/27/2019				<0.001	<0.001	<0.001
3/4/2019	<0.001					
4/3/2019	<0.001					
6/12/2019		<0.001				
8/19/2019		<0.001				
9/24/2019	9E-05 (J)					
10/8/2019		<0.001				
2/10/2020				4.9E-05 (J)	<0.001	
2/11/2020						<0.001
2/12/2020	<0.001		<0.001			
3/17/2020		<0.001				
3/18/2020			<0.001		<0.001	
3/19/2020				0.00012 (J)		<0.001
3/24/2020	6.8E-05 (J)					
8/26/2020		<0.001				
9/22/2020	4.2E-05 (J)	0.0001 (J)				
9/23/2020				<0.001	0.00021 (J)	0.0011 (J)
9/25/2020			<0.001			
2/8/2021	3.7E-05 (J)					
2/10/2021			4.8E-05 (J)			0.00015 (J)
2/12/2021				4.4E-05 (J)	0.00038 (J)	
3/2/2021	9.2E-05 (J)	<0.001	<0.001			
3/3/2021				5.6E-05 (J)	<0.001	<0.001
8/19/2021			<0.001	<0.001	<0.001	
8/20/2021		<0.001				
8/26/2021	<0.001					
8/27/2021						<0.001
2/8/2022		<0.001				
2/9/2022				<0.001	<0.001	<0.001
2/10/2022	<0.001		<0.001			
8/30/2022	<0.001	<0.001		<0.001		<0.001
8/31/2022			<0.001		<0.001	

# Time Series

Constituent: Lead (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.001		
6/2/2016	<0.001	0.00056 (J)			
7/25/2016	<0.001		<0.001		
7/26/2016		0.0001 (J)			
9/1/2016				<0.001	
9/14/2016			<0.001		
9/15/2016		0.0002 (J)			
9/19/2016	<0.001				
11/1/2016	<0.001	<0.001	<0.001		
11/16/2016				<0.001	
1/11/2017		<0.001	<0.001		
1/16/2017	<0.001				
2/21/2017	<0.001				
2/27/2017				<0.001	
3/1/2017			<0.001		
3/2/2017		0.0002 (J)			
4/26/2017	<0.001	<0.001	<0.001		
5/8/2017				<0.001	
6/28/2017		<0.001	<0.001		
6/30/2017	<0.001				
7/13/2017				<0.001	
10/11/2017				<0.001	
3/27/2018	<0.001				
3/28/2018		<0.001	<0.001		
4/4/2018				<0.001	
9/19/2018				<0.001	
2/26/2019	<0.001				
2/27/2019		<0.001	<0.001		
8/21/2019				<0.001	
2/11/2020			<0.001		
2/12/2020	<0.001	<0.001			
3/19/2020	<0.001	0.00017 (J)	<0.001		
7/6/2020				<0.001	
8/27/2020					9.2E-05 (J)
8/28/2020				<0.001	
9/22/2020					6E-05 (J)
9/23/2020		<0.001	0.00015 (J)	<0.001	
9/24/2020	<0.001				
10/7/2020				<0.001	<0.001
11/12/2020				4.4E-05 (J)	6.4E-05 (J)
2/10/2021		<0.001	<0.001		
2/11/2021	4.6E-05 (J)				
3/1/2021	<0.001				8.7E-05 (J)
3/2/2021				<0.001	
3/3/2021		<0.001	<0.001		
8/19/2021	<0.001	<0.001			
8/20/2021					<0.001
8/27/2021			<0.001	<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001
2/11/2022	<0.001				
8/31/2022	<0.001	<0.001	<0.001	<0.001	<0.001



# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					0.0088	0.015
6/7/2016				<0.03		
7/27/2016				<0.03	0.0087 (J)	0.0049 (J)
8/30/2016	0.0061 (J)					
8/31/2016		0.0115 (J)	0.0147 (J)			
9/16/2016				<0.03		0.0031 (J)
9/19/2016					0.0043 (J)	
11/3/2016				<0.03	<0.03	0.0021 (J)
11/14/2016	0.0064 (J)		0.0175 (J)			
11/15/2016		0.0148 (J)				
1/11/2017				0.0035 (J)	0.0052 (J)	0.0025 (J)
2/24/2017	0.0049 (J)					
2/27/2017			0.0135 (J)			
2/28/2017		0.0124 (J)				
3/1/2017					0.0053 (J)	0.0029 (J)
3/2/2017				<0.03		
4/26/2017					0.0041 (J)	0.0019 (J)
5/2/2017				<0.03		
5/8/2017	0.0053 (J)	0.0132 (J)				
5/9/2017			0.0136 (J)			
6/28/2017					0.0039 (J)	0.0016 (J)
6/29/2017				<0.03		
7/11/2017	0.0051 (J)					
7/13/2017		0.0124 (J)	0.0129 (J)			
10/10/2017	0.0043 (J)	0.0123 (J)	0.015 (J)			
3/28/2018				<0.03	0.0041 (J)	0.0024 (J)
4/2/2018	0.0045 (J)					
4/3/2018			0.014 (J)			
4/4/2018		0.014 (J)				
6/7/2018					0.0032 (J)	
6/11/2018				<0.03		0.0014 (J)
9/19/2018	0.0043 (J)	0.013 (J)	0.012 (J)			
9/25/2018				<0.03	0.0036 (J)	0.0016 (J)
3/5/2019				<0.03		0.0031 (J)
3/6/2019					0.0033 (J)	
4/2/2019				<0.03		
4/3/2019					0.0035 (J)	0.0028 (J)
8/20/2019	0.0036 (J)	0.013 (J)	0.012 (J)			
9/25/2019				<0.03		
9/26/2019					0.0032 (J)	0.0029 (J)
10/8/2019	0.0036 (J)	0.012 (J)				
10/9/2019			0.012 (J)			
2/11/2020				<0.03	0.0033 (J)	0.005 (J)
3/17/2020	0.0046 (J)	0.013 (J)	0.014 (J)			
3/24/2020				0.0034 (J)	0.0033 (J)	0.0035 (J)
8/27/2020	0.0039 (J)	0.013 (J)				
8/28/2020			0.012 (J)			
9/22/2020	0.0036 (J)	0.013 (J)				
9/23/2020			0.012 (J)	<0.03	0.003 (J)	0.0022 (J)
2/9/2021					0.0031 (J)	0.0019 (J)
3/1/2021	0.0037 (J)	0.013 (J)	0.012 (J)			
3/3/2021				<0.03	0.0034 (J)	0.0021 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/19/2021	0.0038 (J)	0.013 (J)	0.012 (J)			
8/26/2021						0.0019 (J)
8/27/2021				<0.03	0.0032 (J)	
2/8/2022	0.0039 (J)					
2/9/2022		0.014 (J)	0.012 (J)	<0.03	0.0032 (J)	0.0015 (J)
8/30/2022				<0.03	0.0036 (J)	0.0014 (J)
8/31/2022	0.0037 (J)	0.013 (J)	0.012 (J)			

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					0.013	0.0049 (J)
6/7/2016	<0.03	0.0055				
7/26/2016					0.0123 (J)	0.0063 (J)
7/27/2016	<0.03					
7/28/2016		0.0045 (J)				
9/14/2016					0.0137 (J)	0.0058 (J)
9/19/2016	<0.03	0.0054 (J)				
11/2/2016	<0.03				0.0136 (J)	0.0053 (J)
11/3/2016		<0.03				
1/12/2017						0.0054 (J)
1/13/2017	<0.03	0.0062 (J)			0.0121 (J)	
3/6/2017	<0.03	0.0059 (J)			0.0143 (J)	
3/7/2017						0.0056 (J)
4/26/2017	<0.03	0.0054 (J)				
5/1/2017					0.0132 (J)	0.0031 (J)
6/27/2017						0.0018 (J)
6/29/2017	<0.03	0.0047 (J)			0.0145 (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			<0.03			
3/29/2018	<0.03	0.0062 (J)			0.014 (J)	0.0058 (J)
4/3/2018			0.0022 (J)	<0.03		
6/5/2018		0.0061 (J)				
6/6/2018	<0.03					0.0068 (J)
6/7/2018					0.013 (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	0.0062 (J)				
9/26/2018					0.014 (J)	0.0065 (J)
3/4/2019					0.015 (J)	0.0065 (J)
3/5/2019	<0.03	0.0053 (J)				
4/2/2019		0.0051 (J)				
4/3/2019	<0.03				0.014 (J)	0.007 (J)
8/21/2019			0.0035 (J)	<0.03		
9/24/2019		0.0068 (J)				0.0065 (J)
9/25/2019	<0.03				0.014 (J)	
10/9/2019			0.0036 (J)	<0.03		
2/12/2020	<0.03	0.0065 (J)	0.0041 (J)	<0.03	0.011 (J)	0.0066 (J)
3/24/2020	<0.03	0.0064 (J)		<0.03		0.0064 (J)
3/25/2020			0.0049 (J)		0.014 (J)	
9/22/2020					0.013 (J)	0.0066 (J)
9/24/2020	<0.03	0.0069 (J)	0.0054 (J)	<0.03		
2/8/2021						0.0063 (J)
2/9/2021	<0.03	0.006 (J)			0.011 (J)	
2/10/2021			0.0071 (J)	<0.03		
3/2/2021						0.0018 (J)
3/3/2021	<0.03				0.012 (J)	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		0.0062 (J)	0.0084 (J)	<0.03		
8/26/2021			0.0082 (J)		0.0094 (J)	0.0075 (J)
8/27/2021	<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	0.00082 (J)	0.0061 (J)				
2/10/2022						0.0076 (J)
2/11/2022					0.012 (J)	
8/30/2022		0.0079 (J)				0.0068 (J)
8/31/2022	<0.03		0.0065 (J)	<0.03	0.013 (J)	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.015	<0.03	
6/2/2016	<0.03		<0.03			
7/25/2016					0.002 (J)	
7/26/2016	0.0027 (J)		<0.03	0.0135 (J)		
8/31/2016		<0.03				
9/13/2016				0.0112 (J)	<0.03	
9/14/2016	0.0029 (J)					0.004 (J)
9/15/2016			<0.03			
11/1/2016				0.0163 (J)		
11/2/2016			<0.03			
11/4/2016	<0.03				<0.03	<0.03
11/28/2016		<0.03				
12/15/2016						0.0026 (J)
1/10/2017			<0.03			
1/11/2017				0.0166 (J)		
1/12/2017	0.0032 (J)					
1/16/2017					0.0023 (J)	0.0023 (J)
2/22/2017		<0.03				
3/2/2017				0.0159 (J)	0.0025 (J)	
3/3/2017						0.0013 (J)
3/7/2017	0.0035 (J)					
3/8/2017			<0.03			
4/26/2017			<0.03			
4/27/2017				0.0137 (J)	0.0027 (J)	
4/28/2017						0.0031 (J)
5/2/2017	0.0031 (J)					
5/8/2017		0.0014 (J)				
5/26/2017						0.0038 (J)
6/27/2017	0.0029 (J)			0.0094 (J)	0.0024 (J)	
6/28/2017						0.0026 (J)
6/30/2017			<0.03			
7/17/2017		<0.03				
10/16/2017		0.0016 (J)				
2/19/2018		<0.03				
3/27/2018			<0.03		0.0023 (J)	
3/28/2018						0.0025 (J)
3/29/2018	0.0034 (J)			0.0078 (J)		
6/5/2018				0.0079 (J)		
6/6/2018					0.0024 (J)	
6/7/2018	0.0032 (J)					0.0017 (J)
6/8/2018			<0.03			
8/6/2018		<0.03				
9/26/2018	0.0032 (J)					
10/1/2018			<0.03	0.0053 (J)	0.0023 (J)	<0.03
2/26/2019			<0.03			
2/27/2019				0.0093 (J)	0.0023 (J)	0.0011 (J)
3/4/2019	0.0032 (J)					
3/28/2019				0.013 (J)	0.0022 (J)	
3/29/2019			<0.03			0.0016 (J)
4/3/2019	0.0035 (J)					
8/19/2019		0.0019 (J)				
9/24/2019	0.0031 (J)			0.0046 (J)	0.0023 (J)	0.0011 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
9/25/2019			<0.03			
10/8/2019		0.0015 (J)				
2/10/2020				0.011 (J)	0.0023 (J)	
2/11/2020						0.0012 (J)
2/12/2020	0.0032 (J)		<0.03			
3/17/2020		0.0017 (J)				
3/18/2020			<0.03		0.0024 (J)	
3/19/2020				0.013 (J)		0.0022 (J)
3/24/2020	0.0033 (J)					
8/26/2020		0.0032 (J)				
9/22/2020	0.0034 (J)	0.0029 (J)				
9/23/2020				0.014 (J)	0.0024 (J)	0.0016 (J)
9/25/2020			<0.03			
2/8/2021	0.0032 (J)					
2/10/2021			<0.03			0.0039 (J)
2/12/2021				0.01 (J)	0.0025 (J)	
3/2/2021	0.0031 (J)	0.0033 (J)	<0.03			
3/3/2021				0.012 (J)	0.0025 (J)	0.0016 (J)
8/19/2021			<0.03	0.013 (J)	0.0023 (J)	
8/20/2021		0.0028 (J)				
8/26/2021	0.0032 (J)					
8/27/2021						0.0058 (J)
2/8/2022		0.0031 (J)				
2/9/2022				0.013 (J)	0.0027 (J)	0.006 (J)
2/10/2022	0.0036 (J)		<0.03			
8/30/2022	0.0035 (J)	0.0025 (J)		0.013 (J)		0.0044 (J)
8/31/2022			<0.03		<0.03	

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.01		
6/2/2016	<0.03	0.018			
7/25/2016	<0.03		0.0132 (J)		
7/26/2016		0.0221 (J)			
9/1/2016				0.0077 (J)	
9/14/2016			0.012 (J)		
9/15/2016		0.0197 (J)			
9/19/2016	<0.03				
11/1/2016	<0.03	0.0194 (J)	0.0115 (J)		
11/16/2016				0.0075 (J)	
1/11/2017		0.0177 (J)	0.0085 (J)		
1/16/2017	<0.03				
2/21/2017	<0.03				
2/27/2017				0.0084 (J)	
3/1/2017			0.0114 (J)		
3/2/2017		0.0185 (J)			
4/26/2017	<0.03	0.0183 (J)	0.0092 (J)		
5/8/2017				0.0087 (J)	
6/28/2017		0.0173 (J)	0.0085 (J)		
6/30/2017	<0.03				
7/13/2017				0.0104 (J)	
10/11/2017				0.0099 (J)	
3/27/2018	0.0011 (J)				
3/28/2018		0.02 (J)	0.013 (J)		
4/4/2018				0.012 (J)	
6/7/2018		0.02 (J)			
6/8/2018			0.012 (J)		
6/11/2018	0.0012 (J)				
9/19/2018				0.011 (J)	
10/1/2018		0.02 (J)	0.011 (J)		
10/2/2018	<0.03				
2/26/2019	0.0011 (J)				
2/27/2019		0.021 (J)	0.014 (J)		
4/1/2019	0.001 (J)	0.021 (J)	0.013 (J)		
8/21/2019				0.0076 (J)	
9/25/2019	0.0011 (J)	0.02 (J)	0.01 (J)		
10/9/2019				0.0078 (J)	
2/11/2020			0.013 (J)		
2/12/2020	0.0013 (J)	0.019 (J)			
3/17/2020				0.0071 (J)	
3/19/2020	0.0012 (J)	0.023 (J)	0.014 (J)		
7/6/2020				0.011 (J)	
8/27/2020					0.0048 (J)
8/28/2020				0.012 (J)	
9/22/2020					0.0046 (J)
9/23/2020		0.023 (J)	0.013 (J)	0.013 (J)	
9/24/2020	0.0011 (J)				
10/7/2020				0.011 (J)	0.0041 (J)
11/12/2020				0.014 (J)	0.0044 (J)
2/10/2021		0.023 (J)	0.015 (J)		
2/11/2021	0.0012 (J)				
3/1/2021	0.0011 (J)				0.0043 (J)

# Time Series

Constituent: Lithium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.013 (J)	
3/3/2021		0.024 (J)	0.017 (J)		
8/19/2021	0.0012 (J)	0.023 (J)			
8/20/2021					0.0043 (J)
8/27/2021			0.026 (J)	0.014 (J)	
2/9/2022		0.026 (J)	0.021 (J)	0.014 (J)	0.0042 (J)
2/11/2022	0.0014 (J)				
8/31/2022	0.0012 (J)	0.021 (J)	0.022 (J)	0.015 (J)	0.0037 (J)



# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.0002	<0.0002
6/7/2016				9.5E-05 (J)		
7/27/2016				<0.0002	<0.0002	<0.0002
8/30/2016	<0.0002					
8/31/2016		<0.0002	<0.0002			
9/16/2016				<0.0002		<0.0002
9/19/2016					<0.0002	
11/3/2016				<0.0002	<0.0002	<0.0002
11/14/2016	<0.0002		<0.0002			
11/15/2016		<0.0002				
1/11/2017				<0.0002	<0.0002	<0.0002
2/24/2017	<0.0002					
2/27/2017			<0.0002			
2/28/2017		<0.0002				
3/1/2017					<0.0002	<0.0002
3/2/2017				<0.0002		
4/26/2017					<0.0002	<0.0002
5/2/2017				<0.0002		
5/8/2017	<0.0002	<0.0002				
5/9/2017			<0.0002			
6/28/2017					<0.0002	<0.0002
6/29/2017				<0.0002		
7/11/2017	<0.0002					
7/13/2017		<0.0002	<0.0002			
10/10/2017	<0.0002	<0.0002	<0.0002			
3/28/2018				<0.0002	<0.0002	<0.0002
4/2/2018	<0.0002					
4/3/2018			<0.0002			
4/4/2018		<0.0002				
9/19/2018	5.3E-05 (J)	6E-05 (J)	7.1E-05 (J)			
9/25/2018				<0.0002	<0.0002	<0.0002
3/5/2019				<0.0002		<0.0002
3/6/2019					<0.0002	
8/20/2019	<0.0002	<0.0002	<0.0002			
2/11/2020				<0.0002	<0.0002	<0.0002
8/27/2020	<0.0002	<0.0002				
8/28/2020			<0.0002			
2/9/2021					<0.0002	<0.0002
3/3/2021				<0.0002	<0.0002	<0.0002
8/19/2021	<0.0002	<0.0002	<0.0002			
8/26/2021						<0.0002
8/27/2021				<0.0002	<0.0002	
2/8/2022	<0.0002					
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
8/30/2022				<0.0002	<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002	<0.0002			

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.0002	<0.0002
6/7/2016	9.6E-05 (J)	9.6E-05 (J)				
7/26/2016					<0.0002	<0.0002
7/27/2016	<0.0002					
7/28/2016		<0.0002				
9/14/2016					<0.0002	<0.0002
9/19/2016	<0.0002	<0.0002				
11/2/2016	<0.0002				<0.0002	<0.0002
11/3/2016		<0.0002				
1/12/2017						<0.0002
1/13/2017	<0.0002	<0.0002			<0.0002	
3/6/2017	<0.0002	<0.0002			<0.0002	
3/7/2017						<0.0002
4/26/2017	<0.0002	<0.0002				
5/1/2017					<0.0002	<0.0002
6/27/2017						<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			
3/29/2018	<0.0002	<0.0002			<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				
9/26/2018					<0.0002	<0.0002
3/4/2019					<0.0002	<0.0002
3/5/2019	<0.0002	<0.0002				
8/21/2019			<0.0002	<0.0002		
2/12/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/8/2021						<0.0002
2/9/2021	<0.0002	<0.0002			<0.0002	
2/10/2021			<0.0002	<0.0002		
3/2/2021						<0.0002
3/3/2021	<0.0002				<0.0002	
3/4/2021		<0.0002	<0.0002	<0.0002		
8/26/2021			<0.0002		<0.0002	<0.0002
8/27/2021	<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				
2/10/2022						<0.0002
2/11/2022					<0.0002	
8/30/2022		<0.0002				<0.0002
8/31/2022	<0.0002		<0.0002	0.00064	<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.0002				
9/11/2007		<0.0002				
3/20/2008		<0.0002				
8/27/2008		<0.0002				
3/3/2009		<0.0002				
11/18/2009		<0.0002				
3/3/2010		<0.0002				
9/8/2010		<0.0002				
3/10/2011		<0.0002				
9/8/2011		<0.0002				
3/5/2012		<0.0002				
9/10/2012		<0.0002				
2/6/2013		<0.0002				
8/12/2013		<0.0002				
2/5/2014		<0.0002				
8/5/2014		<0.0002				
2/4/2015		<0.0002				
8/3/2015		<0.0002				
2/16/2016		1.36E-05 (J)				
6/1/2016				<0.0002	<0.0002	
6/2/2016	<0.0002		<0.0002			
7/25/2016					<0.0002	
7/26/2016	<0.0002		<0.0002	<0.0002		
8/31/2016		<0.0002				
9/13/2016				<0.0002	<0.0002	
9/14/2016	<0.0002					<0.0002
9/15/2016			<0.0002			
11/1/2016			<0.0002	<0.0002		
11/2/2016			<0.0002			
11/4/2016	<0.0002				<0.0002	<0.0002
11/28/2016		<0.0002				
12/15/2016						<0.0002
1/10/2017			<0.0002			
1/11/2017				<0.0002		
1/12/2017	<0.0002					
1/16/2017					<0.0002	<0.0002
2/22/2017		<0.0002				
3/2/2017				<0.0002	<0.0002	
3/3/2017						<0.0002
3/7/2017	<0.0002					
3/8/2017			<0.0002			
4/26/2017			<0.0002			
4/27/2017				<0.0002	<0.0002	
4/28/2017						<0.0002
5/2/2017	<0.0002					
5/8/2017		<0.0002				
5/26/2017						<0.0002
6/27/2017	<0.0002			<0.0002	<0.0002	
6/28/2017						<0.0002
6/30/2017			<0.0002			
7/17/2017		<0.0002				
10/16/2017		<0.0002				

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.0002				
3/27/2018			<0.0002		<0.0002	
3/28/2018						<0.0002
3/29/2018	<0.0002			<0.0002		
8/6/2018		<0.0002				
9/26/2018	<0.0002					
2/25/2019		7.4E-05 (J)				
2/26/2019			6.1E-05 (J)			
2/27/2019				5.1E-05 (J)	5.4E-05 (J)	<0.0002
3/4/2019	<0.0002					
3/28/2019				4E-05 (J)	<0.0002	
3/29/2019			<0.0002			<0.0002
6/12/2019		<0.0002				
8/19/2019		<0.0002				
9/24/2019				<0.0002	<0.0002	<0.0002
9/25/2019			<0.0002			
10/8/2019		<0.0002				
2/10/2020				<0.0002	<0.0002	
2/11/2020						<0.0002
2/12/2020	<0.0002		<0.0002			
5/6/2020		<0.0002				
8/26/2020		<0.0002				
9/22/2020		<0.0002				
2/8/2021	<0.0002					
2/10/2021			<0.0002			<0.0002
2/12/2021				<0.0002	<0.0002	
3/2/2021	<0.0002	<0.0002				
8/20/2021		<0.0002				
8/26/2021	<0.0002					
2/8/2022		<0.0002				
2/9/2022				<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002		<0.0002			
8/30/2022	<0.0002	<0.0002		<0.0002		<0.0002
8/31/2022			<0.0002		<0.0002	

# Time Series

Constituent: Mercury (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.0002		
6/2/2016	<0.0002	<0.0002			
7/25/2016	<0.0002		<0.0002		
7/26/2016		<0.0002			
9/1/2016				<0.0002	
9/14/2016			<0.0002		
9/15/2016		<0.0002			
9/19/2016	<0.0002				
11/1/2016	<0.0002	<0.0002	<0.0002		
11/16/2016				<0.0002	
1/11/2017		<0.0002	<0.0002		
1/16/2017	<0.0002				
2/21/2017	<0.0002				
2/27/2017				<0.0002	
3/1/2017			<0.0002		
3/2/2017		<0.0002			
4/26/2017	<0.0002	<0.0002	<0.0002		
5/8/2017				<0.0002	
6/28/2017		<0.0002	<0.0002		
6/30/2017	<0.0002				
7/13/2017				<0.0002	
10/11/2017				<0.0002	
3/27/2018	<0.0002				
3/28/2018		<0.0002	<0.0002		
4/4/2018				<0.0002	
9/19/2018				7E-05 (J)	
2/26/2019	6.8E-05 (J)				
2/27/2019		6.2E-05 (J)	6.1E-05 (J)		
4/1/2019	8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)		
8/21/2019				<0.0002	
9/25/2019	<0.0002	<0.0002	<0.0002		
2/11/2020			<0.0002		
2/12/2020	<0.0002	<0.0002			
7/6/2020				<0.0002	
8/27/2020					<0.0002
8/28/2020				<0.0002	
11/12/2020				<0.0002	<0.0002
2/10/2021		<0.0002	<0.0002		
2/11/2021	<0.0002				
8/20/2021					<0.0002
8/27/2021				<0.0002	
2/9/2022		<0.0002	<0.0002	<0.0002	<0.0002
2/11/2022	<0.0002				
8/31/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.01	<0.01
6/7/2016				<0.01		
7/27/2016				<0.01	<0.01	<0.01
8/30/2016	<0.01					
8/31/2016		<0.01	0.0024 (J)			
9/16/2016				<0.01		<0.01
9/19/2016					<0.01	
11/3/2016				<0.01	<0.01	<0.01
11/14/2016	<0.01		<0.01			
11/15/2016		<0.01				
1/11/2017				<0.01	<0.01	<0.01
2/24/2017	<0.01					
2/27/2017			0.0018 (J)			
2/28/2017		0.0005 (J)				
3/1/2017					<0.01	<0.01
3/2/2017				<0.01		
4/26/2017					<0.01	<0.01
5/2/2017				<0.01		
5/8/2017	<0.01	<0.01				
5/9/2017			0.0015 (J)			
6/28/2017					<0.01	<0.01
6/29/2017				<0.01		
7/11/2017	<0.01					
7/13/2017		<0.01	0.0015 (J)			
10/10/2017	<0.01	<0.01	0.0015 (J)			
3/28/2018				<0.01	<0.01	<0.01
4/2/2018	<0.01					
4/3/2018			<0.01			
4/4/2018		<0.01				
9/19/2018	<0.01	<0.01	<0.01			
3/5/2019				<0.01		<0.01
3/6/2019					<0.01	
8/20/2019	<0.01	<0.01	0.0011 (J)			
10/8/2019	<0.01	<0.01				
10/9/2019			0.0012 (J)			
2/11/2020				<0.01	<0.01	<0.01
3/17/2020	<0.01	<0.01	0.0016 (J)			
3/24/2020				<0.01	<0.01	<0.01
8/27/2020	<0.01	<0.01				
8/28/2020			0.0013 (J)			
9/22/2020	<0.01	<0.01				
9/23/2020			0.0011 (J)	<0.01	<0.01	<0.01
2/9/2021					<0.01	<0.01
3/1/2021	<0.01	<0.01	0.0012 (J)			
3/3/2021				<0.01	<0.01	<0.01
8/19/2021	<0.01	<0.01	0.0012 (J)			
8/26/2021						<0.01
8/27/2021				<0.01	<0.01	
2/8/2022	<0.01					
2/9/2022		<0.01	0.0012 (J)	<0.01	<0.01	<0.01
8/30/2022				<0.01	<0.01	<0.01
8/31/2022	<0.01	<0.01	0.0011 (J)			

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.01	0.0035 (J)
6/7/2016	<0.01	<0.01				
7/26/2016					<0.01	0.0042 (J)
7/27/2016	<0.01					
7/28/2016		<0.01				
9/14/2016					<0.01	0.0041 (J)
9/19/2016	<0.01	<0.01				
11/2/2016	<0.01				<0.01	0.0039 (J)
11/3/2016		<0.01				
1/12/2017						0.0041 (J)
1/13/2017	<0.01	<0.01			<0.01	
3/6/2017	<0.01	0.0007 (J)			<0.01	
3/7/2017						0.0047 (J)
4/26/2017	<0.01	0.0008 (J)				
5/1/2017					<0.01	0.0045 (J)
6/27/2017						0.004 (J)
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			
3/29/2018	<0.01	<0.01			<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		
3/4/2019					<0.01	<0.01
3/5/2019	<0.01	<0.01				
8/21/2019			0.0021 (J)	<0.01		
10/9/2019			0.0018 (J)	<0.01		
2/12/2020	<0.01	<0.01	0.0025 (J)	<0.01	<0.01	0.0011 (J)
3/24/2020	<0.01	<0.01		<0.01		0.0011 (J)
3/25/2020			0.002 (J)		<0.01	
9/22/2020					<0.01	0.00099 (J)
9/24/2020	<0.01	<0.01	0.0016 (J)	<0.01		
2/8/2021						0.0011 (J)
2/9/2021	<0.01	<0.01			<0.01	
2/10/2021			0.0013 (J)	<0.01		
3/2/2021						<0.01
3/3/2021	<0.01				<0.01	
3/4/2021		<0.01	0.0014 (J)	<0.01		
8/26/2021			0.0027 (J)		<0.01	0.001 (J)
8/27/2021	<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				
2/10/2022						0.00096 (J)
2/11/2022					<0.01	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
8/30/2022		<0.01				0.00089 (J)
8/31/2022	<0.01		0.0036 (J)	<0.01	<0.01	



# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				0.014 (J)	0.012 (J)	
6/2/2016	<0.01		<0.01			
7/25/2016					0.0098 (J)	
7/26/2016	<0.01		<0.01	0.0132		
8/31/2016		<0.01				
9/13/2016				0.0127	0.01 (J)	
9/14/2016	<0.01					0.0039 (J)
9/15/2016			<0.01			
11/1/2016				0.0092 (J)		
11/2/2016			<0.01			
11/4/2016	<0.01				0.01	0.0077 (J)
11/28/2016		<0.01				
12/15/2016						0.0066 (J)
1/10/2017			<0.01			
1/11/2017				0.0093 (J)		
1/12/2017	<0.01					
1/16/2017					0.0086 (J)	0.0056 (J)
2/22/2017		<0.01				
3/2/2017				0.0099 (J)	0.01	
3/3/2017						0.0049 (J)
3/7/2017	<0.01					
3/8/2017			<0.01			
4/26/2017			<0.01			
4/27/2017				0.0103	0.0101	
4/28/2017						0.004 (J)
5/2/2017	<0.01					
5/8/2017		<0.01				
5/26/2017						0.0029 (J)
6/27/2017	<0.01			0.0097 (J)	0.0093 (J)	
6/28/2017						0.0036 (J)
6/30/2017			<0.01			
7/17/2017		<0.01				
10/16/2017		<0.01				
2/19/2018		<0.01				
3/27/2018			<0.01		0.0074 (J)	
3/28/2018						0.0038 (J)
3/29/2018	<0.01			0.0076 (J)		
6/5/2018				0.0092 (J)		
6/6/2018					0.0073 (J)	
6/7/2018						0.004 (J)
6/8/2018			<0.01			
8/6/2018		<0.01				
10/1/2018			<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)
2/26/2019			<0.01			
2/27/2019				0.0087 (J)	0.0078 (J)	0.0041 (J)
3/4/2019	<0.01					
3/28/2019				0.0092 (J)	0.0082 (J)	
3/29/2019			<0.01			0.0041 (J)
8/19/2019		<0.01				
9/24/2019				0.0072 (J)	0.0074 (J)	0.0054 (J)
9/25/2019			<0.01			
2/10/2020				0.0087 (J)	0.0062 (J)	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/11/2020						0.0057 (J)
2/12/2020	<0.01		<0.01			
3/18/2020			<0.01		0.0056 (J)	
3/19/2020				0.0088 (J)		0.0046 (J)
3/24/2020	<0.01					
8/26/2020		<0.01				
9/22/2020	<0.01					
9/23/2020				0.008 (J)	0.0059 (J)	0.0071 (J)
9/25/2020			<0.01			
2/8/2021	<0.01					
2/10/2021			<0.01			0.0041 (J)
2/12/2021				0.008 (J)	0.0056 (J)	
3/2/2021	<0.01		<0.01			
3/3/2021				0.0088 (J)	0.0049 (J)	0.0074 (J)
8/19/2021			<0.01	0.0083 (J)	0.005 (J)	
8/20/2021		<0.01				
8/26/2021	<0.01					
8/27/2021						0.0048 (J)
2/8/2022		<0.01				
2/9/2022				0.0093 (J)	0.0055 (J)	0.0057 (J)
2/10/2022	<0.01		<0.01			
8/30/2022	<0.01	<0.01		0.0094 (J)		0.0068 (J)
8/31/2022			<0.01		0.0055 (J)	

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			0.0055 (J)		
6/2/2016	<0.01	0.0093 (J)			
7/25/2016	<0.01		0.0037 (J)		
7/26/2016		0.0113			
9/1/2016				<0.01	
9/14/2016			0.0034 (J)		
9/15/2016		0.0112			
9/19/2016	<0.01				
11/1/2016	<0.01	0.0099 (J)	0.0025 (J)		
11/16/2016				<0.01	
1/11/2017		0.0093 (J)	0.0033 (J)		
1/16/2017	<0.01				
2/21/2017	<0.01				
2/27/2017				<0.01	
3/1/2017			0.0044 (J)		
3/2/2017		0.0103			
4/26/2017	<0.01	0.01	0.0075 (J)		
5/8/2017				0.0008 (J)	
6/28/2017		0.0102	0.008 (J)		
6/30/2017	<0.01				
7/13/2017				0.0015 (J)	
10/11/2017				0.002 (J)	
3/27/2018	<0.01				
3/28/2018		0.011	0.0025 (J)		
4/4/2018				0.0021 (J)	
6/7/2018		0.011			
6/8/2018			0.0041 (J)		
6/11/2018	<0.01				
9/19/2018				0.0039 (J)	
10/1/2018		0.012	0.0037 (J)		
10/2/2018	<0.01				
2/26/2019	<0.01				
2/27/2019		0.011	0.0027 (J)		
4/1/2019	<0.01	0.012	0.0021 (J)		
8/21/2019				0.0012 (J)	
9/25/2019	<0.01	0.012	0.0087 (J)		
10/9/2019				0.0013 (J)	
2/11/2020			0.003 (J)		
2/12/2020	<0.01	0.013			
3/17/2020				0.0015 (J)	
3/19/2020	<0.01	0.013	0.0043 (J)		
7/6/2020				0.0026 (J)	
8/27/2020					<0.01
8/28/2020				0.003 (J)	
9/22/2020					<0.01
9/23/2020		0.012	0.01	0.0025 (J)	
9/24/2020	<0.01				
10/7/2020				0.0024 (J)	<0.01
11/12/2020				0.0019 (J)	<0.01
2/10/2021		0.014	0.0038 (J)		
2/11/2021	<0.01				
3/1/2021	<0.01				<0.01

# Time Series

Constituent: Molybdenum (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/2/2021				0.0023 (J)	
3/3/2021		0.013	0.0036 (J)		
8/19/2021	<0.01	0.013			
8/20/2021					<0.01
8/27/2021			0.0099 (J)	0.0022 (J)	
2/9/2022		0.013	0.0087 (J)	0.0021 (J)	<0.01
2/11/2022	<0.01				
8/31/2022	<0.01	0.011	0.0068 (J)	0.0017 (J)	<0.01

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					6.17	5.71
6/7/2016				5.62		
7/27/2016				5.59	6.14	5.46
8/30/2016	5.75					
8/31/2016		6.01	7.15			
9/16/2016				5.58		
9/19/2016					6.04	5.59
11/3/2016				5.59	5.97	5.39
11/14/2016	5.59		6.96			
11/15/2016		5.91				
1/11/2017				5.59	6.05	5.48
2/24/2017	5.49					
2/27/2017			6.79			
2/28/2017		5.85				
3/1/2017					5.94	5.41
3/2/2017				5.54		
4/26/2017					5.99	5.4
5/2/2017				5.47		
5/8/2017	5.58	5.91				
5/9/2017			6.9			
6/28/2017					6	5.36
6/29/2017				5.56		
7/11/2017	5.58					
7/13/2017		5.8	6.77			
10/4/2017				5.57		5.32
10/5/2017					6.11	
10/10/2017	5.49	5.76	6.9			
3/28/2018				5.59	6.1	5.34
4/2/2018	6.3 (O)					
4/3/2018			6.44			
4/4/2018		5.77				
6/7/2018					5.98	
6/11/2018				5.58		5.28
9/19/2018	5.48	5.77	6.47			
9/25/2018				5.59	5.81	4.86
3/5/2019				5.48		5.26
3/6/2019					5.99	
3/27/2019	5.83	6.1	7.18			
4/2/2019				5.74		
4/3/2019					6.29	5.47
8/20/2019	5.58	5.78	6.48			
9/25/2019				5.49		
9/26/2019					6.04	5.2
10/8/2019	5.59	5.84				
10/9/2019			6.55			
2/11/2020				5.58	6.07	5.3
3/17/2020	5.57	5.9	6.69			
3/24/2020				5.57	5.98	5.33
8/27/2020	4.88	5.75				
8/28/2020			6.84			
9/22/2020	5.46	5.53				
9/23/2020			6.57	5.58	6.01	5.29

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
2/9/2021					6.12	5.43
3/1/2021	5.48	5.76	6.5			
3/3/2021				5.52	5.89	5.31
8/19/2021	5.5	5.73	6.13			
8/26/2021						4.4
8/27/2021				5.27	5.4	
2/8/2022	5.4					
2/9/2022		5.73	6.15	5.53	5.98	5.28
8/30/2022				4.68	5.82	5.18
8/31/2022	5.32	5.77	6.56			

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					6.36	7.67
6/7/2016	5.77	6.1				
7/26/2016					6.22	7.66
7/27/2016	5.79					
7/28/2016		6.12				
9/14/2016					6.23	7.6
9/19/2016	5.73	6.12				
11/2/2016	5.67				6.08	7.35
11/3/2016		6.07				
1/12/2017						7.49
1/13/2017	5.79	6.41			6.19	
3/6/2017	5.63	6.34			6.2	
3/7/2017						7.43
4/26/2017	5.66	6.32				
5/1/2017					6.21	7.22
6/27/2017						7.32
6/29/2017	5.85	6.47			6.21	
10/3/2017		6.56				7.48
10/4/2017	5.83					
10/5/2017					6.16	
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			
3/29/2018	5.93	6.75			6.09	7.02
4/3/2018			6.87	5.84		
6/5/2018		6.09				
6/6/2018	5.86					7.43
6/7/2018					6.12	
6/28/2018			6.18	5.24		
8/7/2018			6.08	5.18		
9/24/2018			5.81	5.14		
9/25/2018	5.84	6.67				
9/26/2018					5.84	7.13
3/4/2019					6.18	7.46
3/5/2019	6.07	7.22				
3/26/2019				5.3		
3/27/2019			5.84			
4/2/2019		6.94				
4/3/2019	5.71				6.43	7.11
8/21/2019			5.96	5.26		
9/24/2019		6.87				6.93
9/25/2019	5.86				6.2	
10/9/2019			5.81	5.22		
2/12/2020	6	7.13	5.97	5.3	6.15	7.52
3/24/2020	5.86	6.35		5.29		7.34
3/25/2020			5.78		6.26	
9/22/2020					5.8	7.19
9/24/2020	5.8	6.7	5.7	5.43		

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
2/9/2021	5.86	6.95			6.06	
2/10/2021			5.8	5.19		
3/2/2021						7.15
3/3/2021	5.89				6.21	
3/4/2021		6.8	5.54	5.23		
8/26/2021			6.91		5.82	7.16
8/27/2021	5.57					
9/1/2021		6.65				
9/3/2021				4.75		
2/8/2022			5.78	5.26		
2/9/2022	5.91	6.84				
2/10/2022						6.99
2/11/2022					5.95	
8/30/2022		6.58				7.4
8/31/2022	5.38		5.3	4.53	5.5	



# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
8/27/2008		6.53				
3/3/2009		6.35				
11/18/2009		6.47				
3/3/2010		6.53				
3/10/2011		5.83				
9/8/2011		5.69				
3/5/2012		6.27				
9/10/2012		6.23				
2/6/2013		7.56				
8/12/2013		6.68				
2/5/2014		6.32				
8/3/2015		6.13 (D)				
2/16/2016		5.64				
6/1/2016				7.46	6.33	
6/2/2016	5.75		5.46			
7/25/2016					6.21	
7/26/2016	5.72		5.45	7.43		
9/13/2016				7.44	6.16	7.41
9/14/2016	5.74					
9/15/2016			5.45			
11/1/2016				7.24		
11/2/2016			5.41			
11/4/2016	5.61				6.29	7.12
11/28/2016		6.23				
12/15/2016						7.24
1/10/2017			5.37			
1/11/2017				7.3		
1/12/2017	5.71					
1/16/2017					6.29	7.24
2/22/2017		6.21				
3/2/2017				7.23	6.28	
3/3/2017						7.22
3/7/2017	5.66					
3/8/2017			5.41			
4/26/2017			5.02			
4/27/2017				6.99	6.09	
4/28/2017						7.21
5/2/2017	5.65					
5/8/2017		6.12				
5/26/2017						7.13
6/27/2017	5.7			6.87	6.21	
6/28/2017						7.06
6/30/2017			5.39			
7/17/2017		6.03				
10/3/2017	5.79			6.81	5.98	6.99
10/5/2017			5.49			
10/16/2017		6.12				
2/19/2018		6.13				
3/27/2018			5.47		6.25	
3/28/2018						7.3
3/29/2018	5.63			7.38		
6/5/2018				7.16		

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/6/2018					6.17	
6/7/2018	5.63					7.29
6/8/2018			5.45			
8/6/2018		6.01				
9/26/2018	5.63					
10/1/2018			5.39	6.8	5.9	7.07
2/25/2019		6.51				
2/26/2019			5.46			
2/27/2019				6.84	5.8	7.27
3/4/2019	5.75					
3/28/2019				6.99	6.15	
3/29/2019			5.34			7.06
4/3/2019	5.63					
6/12/2019		6.3				
8/19/2019		6.23				
9/24/2019	5.6			7.07	6.23	7.01
9/25/2019			5.19			
10/8/2019		6.28				
2/10/2020				7.2	6.1	
2/11/2020						7.38
2/12/2020	5.83		5.48			
3/17/2020		6.14				
3/18/2020			5.38		6.19	
3/19/2020				7.03		7.22
3/24/2020	5.81					
5/6/2020		6.24				
8/26/2020		5.67				
9/22/2020	5.99	5.78				
9/23/2020				7.15	6.01	7.22
9/25/2020			5.44			
2/8/2021	5.67					
2/10/2021			5.35			7.29
2/12/2021				7.14	6.21	
3/2/2021	5.63	5.42	5.49			
3/3/2021				7.2	5.38	7.92
8/19/2021			7.32	6.32	6.38	
8/20/2021		5.86				
8/26/2021	5.51					
8/27/2021						7.14
2/8/2022		5.83				
2/9/2022				7.12	6.24	5.89
2/10/2022	5.14		4.5			
8/30/2022	5	5.39		7.2		7.04
8/31/2022			5.15		5.64	

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			7.72		
6/2/2016	5.75	7.84			
7/25/2016	5.82		7.74		
7/26/2016		7.88			
9/1/2016				6.19	
9/14/2016			7.65		
9/15/2016		7.74			
9/19/2016	5.78 (D)				
11/1/2016	5.62	7.75	7.7		
11/16/2016				6.05	
1/11/2017		7.66	7.53		
1/16/2017	5.72				
2/21/2017	5.67				
2/27/2017				6.01	
3/1/2017			7.42		
3/2/2017		7.68			
4/26/2017	5.56	7.45	7.4		
5/8/2017				6.1	
6/28/2017		7.65	7.5		
6/30/2017	5.72				
7/13/2017				6.07	
10/4/2017	5.87	7.49	7.45		
10/11/2017				5.93	
3/27/2018	5.83				
3/28/2018		7.91	7.74		
4/4/2018				6.01	
6/7/2018		7.69			
6/8/2018			7.64		
6/11/2018	5.69				
9/19/2018				6.09	
10/1/2018		7.39	7.47		
10/2/2018	5.39				
2/26/2019	5.77				
2/27/2019		7.55	7.54		
3/27/2019				6.2	
4/1/2019	5.62	7.87	7.74		
8/21/2019				5.82	
9/25/2019	5.69	7.64	7.47		
10/9/2019				5.96	
2/11/2020			7.09		
2/12/2020	5.8	7.83			
3/17/2020				5.99	
3/19/2020	6	7.65	7.31		
7/6/2020				6.89	
8/27/2020					5.8
8/28/2020				7.05	
9/22/2020					5.91
9/23/2020		7.57	7.37	6.81	
9/24/2020	5.67				
10/7/2020				7.06	5.87
2/10/2021		7.81	7.58		
2/11/2021	5.73				

# Time Series

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
3/1/2021	5.78				5.84
3/2/2021				6.72	
3/3/2021		8.39	8.23		
8/19/2021		5.34			
8/20/2021					6.71
8/27/2021			7.39	6.83	
2/9/2022		7.97	7.66	6.98	5.99
2/11/2022	5.59				
8/31/2022	5.87	7.65	7.49	6.87	5.58

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.005	<0.005
6/7/2016				0.001 (J)		
7/27/2016				0.0012 (J)	<0.005	<0.005
8/30/2016	0.0017 (J)					
8/31/2016		<0.005	<0.005			
9/16/2016				0.0015 (J)		<0.005
9/19/2016					<0.005	
11/3/2016				0.0015 (J)	<0.005	<0.005
11/14/2016	<0.005		<0.005			
11/15/2016		<0.005				
1/11/2017				0.0014 (J)	<0.005	<0.005
2/24/2017	0.0011 (J)					
2/27/2017			<0.005			
2/28/2017		<0.005				
3/1/2017					<0.005	<0.005
3/2/2017				0.0017 (J)		
4/26/2017					<0.005	<0.005
5/2/2017				<0.005		
5/8/2017	<0.005	<0.005				
5/9/2017			<0.005			
6/28/2017					<0.005	<0.005
6/29/2017				<0.005		
7/11/2017	<0.005					
7/13/2017		<0.005	<0.005			
10/10/2017	<0.005	<0.005	<0.005			
3/28/2018				<0.005	<0.005	<0.005
4/2/2018	<0.005					
4/3/2018			<0.005			
4/4/2018		<0.005				
6/7/2018					<0.005	
6/11/2018				<0.005		<0.005
9/19/2018	<0.005	<0.005	<0.005			
9/25/2018				<0.005	<0.005	<0.005
3/5/2019				<0.005		<0.005
3/6/2019					<0.005	
4/2/2019				<0.005		
4/3/2019					<0.005	<0.005
8/20/2019	<0.005	<0.005	<0.005			
9/25/2019				<0.005		
9/26/2019					<0.005	<0.005
2/11/2020				<0.005	<0.005	<0.005
3/24/2020				<0.005	<0.005	<0.005
8/27/2020	<0.005	<0.005				
8/28/2020			<0.005			
9/23/2020				<0.005	<0.005	<0.005
2/9/2021					<0.005	<0.005
3/3/2021				<0.005	<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005			
8/26/2021						<0.005
8/27/2021				<0.005	<0.005	
2/8/2022	<0.005					
2/9/2022		<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005			

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 4:40 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.005	<0.005
6/7/2016	<0.005	0.00048 (J)				
7/26/2016					0.0009 (J)	<0.005
7/27/2016	<0.005					
7/28/2016		<0.005				
9/14/2016					<0.005	<0.005
9/19/2016	<0.005	0.0014 (J)				
11/2/2016	<0.005				<0.005	<0.005
11/3/2016		<0.005				
1/12/2017						<0.005
1/13/2017	<0.005	<0.005			<0.005	
3/6/2017	<0.005	<0.005			<0.005	
3/7/2017						<0.005
4/26/2017	<0.005	<0.005				
5/1/2017					<0.005	<0.005
6/27/2017						<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			
3/29/2018	<0.005	<0.005			<0.005	<0.005
4/3/2018			<0.005	<0.005		
6/5/2018		<0.005				
6/6/2018	<0.005					<0.005
6/7/2018					<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				
9/26/2018					<0.005	<0.005
3/4/2019					<0.005	<0.005
3/5/2019	<0.005	<0.005				
4/2/2019		<0.005				
4/3/2019	<0.005				<0.005	<0.005
8/21/2019			<0.005	0.0024 (J)		
9/24/2019		<0.005				<0.005
9/25/2019	<0.005				<0.005	
10/9/2019			<0.005	0.0026 (J)		
2/12/2020	<0.005	<0.005	<0.005	0.002 (J)	<0.005	<0.005
3/24/2020	<0.005	<0.005		0.002 (J)		<0.005
3/25/2020			<0.005		<0.005	
9/22/2020					<0.005	<0.005
9/24/2020	<0.005	<0.005	<0.005	0.0016 (J)		
2/8/2021						<0.005
2/9/2021	<0.005	<0.005			<0.005	
2/10/2021			<0.005	<0.005		
3/2/2021						<0.005
3/3/2021	<0.005				0.0019 (J)	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
3/4/2021		<0.005	<0.005	<0.005		
8/26/2021			<0.005		<0.005	<0.005
8/27/2021	<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				
2/10/2022						<0.005
2/11/2022					<0.005	
8/30/2022		<0.005				<0.005
8/31/2022	<0.005		<0.005	<0.005	<0.005	



# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.005				
9/11/2007		<0.005				
3/20/2008		<0.005				
8/27/2008		<0.005				
3/3/2009		<0.005				
11/18/2009		<0.005				
3/3/2010		<0.005				
9/8/2010		<0.005				
3/10/2011		<0.005				
9/8/2011		<0.005				
3/5/2012		<0.005				
9/10/2012		<0.005				
2/6/2013		<0.005				
8/12/2013		<0.005				
2/5/2014		<0.005				
8/5/2014		<0.005				
2/4/2015		<0.005				
8/3/2015		<0.005				
2/16/2016		<0.005				
6/1/2016				<0.005	<0.005	
6/2/2016	<0.005		0.0011 (J)			
7/25/2016					<0.005	
7/26/2016	0.0009 (J)		0.0016 (J)	<0.005		
8/31/2016		<0.005				
9/13/2016				<0.005	<0.005	
9/14/2016	<0.005					<0.005
9/15/2016			0.0014 (J)			
11/1/2016				<0.005		
11/2/2016			<0.005			
11/4/2016	<0.005				<0.005	<0.005
11/28/2016		<0.005				
12/15/2016						<0.005
1/10/2017			0.0012 (J)			
1/11/2017				<0.005		
1/12/2017	<0.005					
1/16/2017					<0.005	<0.005
2/22/2017		<0.005				
3/2/2017				<0.005	<0.005	
3/3/2017						<0.005
3/7/2017	<0.005					
3/8/2017			<0.005			
4/26/2017			<0.005			
4/27/2017				<0.005	<0.005	
4/28/2017						<0.005
5/2/2017	<0.005					
5/8/2017		<0.005				
5/26/2017						<0.005
6/27/2017	<0.005			<0.005	<0.005	
6/28/2017						<0.005
6/30/2017			<0.005			
7/17/2017		<0.005				
10/16/2017		<0.005				

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
2/19/2018		<0.005				
3/27/2018			<0.005		<0.005	
3/28/2018						<0.005
3/29/2018	<0.005			<0.005		
6/7/2018	<0.005					
8/6/2018		<0.005				
9/26/2018	<0.005					
2/25/2019		<0.005				
2/26/2019			<0.005			
2/27/2019				<0.005	<0.005	<0.005
3/4/2019	<0.005					
3/28/2019				<0.005	<0.005	
3/29/2019			0.0019 (J)			<0.005
4/3/2019	<0.005					
6/12/2019		<0.005				
8/19/2019		<0.005				
9/24/2019	<0.005			<0.005	<0.005	<0.005
9/25/2019			<0.005			
10/8/2019		<0.005				
2/10/2020				<0.005	<0.005	
2/11/2020						<0.005
2/12/2020	<0.005		<0.005			
3/17/2020		<0.005				
3/18/2020			<0.005		<0.005	
3/19/2020				<0.005		<0.005
3/24/2020	<0.005					
8/26/2020		<0.005				
9/22/2020	<0.005	<0.005				
9/23/2020				<0.005	<0.005	<0.005
9/25/2020			<0.005			
2/8/2021	<0.005					
2/10/2021			<0.005			<0.005
2/12/2021				<0.005	<0.005	
3/2/2021	<0.005	<0.005	<0.005			
3/3/2021				<0.005	<0.005	<0.005
8/19/2021			<0.005	<0.005	<0.005	
8/20/2021		<0.005				
8/26/2021	<0.005					
8/27/2021						<0.005
2/8/2022		<0.005				
2/9/2022				<0.005	<0.005	<0.005
2/10/2022	<0.005		0.0014 (J)			
8/30/2022	<0.005	<0.005		<0.005		<0.005
8/31/2022			<0.005		<0.005	

# Time Series

Constituent: Selenium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.005		
6/2/2016	<0.005	<0.005			
7/25/2016	<0.005		<0.005		
7/26/2016		<0.005			
9/1/2016				<0.005	
9/14/2016			<0.005		
9/15/2016		<0.005			
9/19/2016	<0.005				
11/1/2016	<0.005	<0.005	<0.005		
11/16/2016				<0.005	
1/11/2017		<0.005	<0.005		
1/16/2017	<0.005				
2/21/2017	<0.005				
2/27/2017				<0.005	
3/1/2017			<0.005		
3/2/2017		<0.005			
4/26/2017	<0.005	<0.005	<0.005		
5/8/2017				<0.005	
6/28/2017		<0.005	<0.005		
6/30/2017	<0.005				
7/13/2017				<0.005	
10/11/2017				<0.005	
3/27/2018	<0.005				
3/28/2018		<0.005	<0.005		
4/4/2018				<0.005	
9/19/2018				<0.005	
2/26/2019	<0.005				
2/27/2019		<0.005	<0.005		
4/1/2019	<0.005	<0.005	<0.005		
8/21/2019				<0.005	
9/25/2019	<0.005	<0.005	<0.005		
2/11/2020			<0.005		
2/12/2020	<0.005	<0.005			
3/19/2020	<0.005	<0.005	<0.005		
7/6/2020				<0.005	
8/27/2020					<0.005
8/28/2020				<0.005	
9/23/2020		<0.005	<0.005		
9/24/2020	<0.005				
11/12/2020				<0.005	<0.005
2/10/2021		<0.005	<0.005		
2/11/2021	<0.005				
3/1/2021	<0.005				
3/3/2021		<0.005	<0.005		
8/19/2021	<0.005	<0.005			
8/20/2021					<0.005
8/27/2021			<0.005	<0.005	
2/9/2022		<0.005	<0.005	<0.005	<0.005
2/11/2022	<0.005				
8/31/2022	<0.005	<0.005	<0.005	<0.005	<0.005

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					1.2	1.8
6/7/2016				4.4		
7/27/2016				4.7	1.7	1.9
8/30/2016	160					
8/31/2016		150	190			
9/16/2016				4.8		1.7
9/19/2016					1.8	
11/3/2016				5.3	0.69 (J)	1.9
11/14/2016	150		200			
11/15/2016		150				
1/11/2017				5.2	<1	1.7
2/24/2017	120					
2/27/2017			190			
2/28/2017		130				
3/1/2017					1.8	<1
3/2/2017				5		
4/26/2017					1.6	1.9
5/2/2017				5		
5/8/2017	120	150				
5/9/2017			190			
6/28/2017					<1	<1
6/29/2017				5.2		
7/11/2017	110					
7/13/2017		150	180			
10/4/2017				5.3		1.7
10/5/2017					1.6	
10/10/2017	93	140	180			
4/2/2018	88.8					
4/3/2018			183			
4/4/2018		137				
6/7/2018					0.68 (J)	
6/11/2018				5.2		0.95 (J)
9/19/2018	75	137	192			
9/25/2018				6.1	1	1.5
3/27/2019	65.9	146	188			
4/2/2019				5.1		
4/3/2019					0.82 (J)	1.3
9/25/2019				5.5		
9/26/2019					0.64 (J)	1
10/8/2019	52.3	142				
10/9/2019			183			
3/17/2020	71.6	121	161			
3/24/2020				5.4	<1	0.99 (J)
9/22/2020	51.5	130				
9/23/2020			170	5.1	0.53 (J)	1.1
3/1/2021	51.6	119	159			
3/3/2021				5.2	<1	1
8/19/2021	52.6	115	149			
8/26/2021						1.2
8/27/2021				5.3	0.59 (J)	
2/8/2022	50.9					
2/9/2022		121	164	4.8	0.51 (J)	1.1

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				4.7	0.78 (J)	1.3
8/31/2022	48	130	177			

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					8	20
6/7/2016	<1	5.2				
7/26/2016					7.7	20
7/27/2016	0.08 (J)					
7/28/2016		5.1				
9/14/2016					7.5	19
9/19/2016	0.08 (J)	4.8				
11/2/2016	0.1 (J)				8.2	20
11/3/2016		5				
1/12/2017						19
1/13/2017	<1	4.3			8.1	
3/6/2017	<1	4.5			8	
3/7/2017						20
4/26/2017	<1	4.9				
5/1/2017					8.4	20
6/27/2017						18
6/29/2017	<1	5.5			9.2	
10/3/2017		5.8				16
10/4/2017	<1					
10/5/2017					9.6	
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)					8.3
6/7/2018					8.5	
6/28/2018			22	43.8		
8/7/2018			20.7	40.5		
9/24/2018			21.2	39.7		
9/25/2018	0.13 (J)	7				
9/26/2018					10.2	7.9
3/26/2019				34.3		
3/27/2019			17.7			
4/2/2019		3.8				
4/3/2019	0.12 (J)				8.5	7
9/24/2019		1				5.5
9/25/2019	<1				8.5	
10/9/2019			15	27.9		
3/24/2020	<1	3		25.2		5.9
3/25/2020			14.3		8.8	
9/22/2020					8.2	5.5
9/24/2020	<1	3.6	11.7	22.9		
3/2/2021						2.6
3/3/2021	<1				7.8	
3/4/2021		4.5	12	21.5		
8/26/2021			19.2		8.5	6
8/27/2021	<1					

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		5				
9/3/2021				21.3		
2/8/2022			14.6	17.9		
2/9/2022	<1	3.9				
2/10/2022						4.9
2/11/2022					7.7	
8/30/2022		3.2				5.7
8/31/2022	<1		10.9	17.9	8	

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				5	4.2	
6/2/2016	1.9		6.6			
7/25/2016					3.7	
7/26/2016	1.8		6.1	5.4		
8/31/2016		29				
9/13/2016				2.9	5.2	
9/14/2016	1.8					9.4
9/15/2016			6.1			
11/1/2016				3.9		
11/2/2016			6.3			
11/4/2016	2				5	13
11/28/2016		36				
12/15/2016						1.8
1/10/2017			5.9			
1/11/2017				3.7		
1/12/2017	1.9					
1/16/2017					7.9	11
2/22/2017		43				
3/2/2017				4.6	7.4	
3/3/2017						8.8
3/7/2017	2.1					
3/8/2017			7			
4/26/2017			7			
4/27/2017				5.2	7.4	
4/28/2017						10
5/2/2017	2					
5/8/2017		60				
5/26/2017						12
6/27/2017	2.1			5.9	6.4	
6/28/2017						11
6/30/2017			6.5			
7/17/2017		63				
10/3/2017	2.3			6.6	5.9	7.9
10/5/2017			7.9			
10/16/2017		62				
2/19/2018		64.6				
6/5/2018				6.4		
6/6/2018					4.4	
6/7/2018	2					8.8
6/8/2018			6.4			
8/6/2018		42.1				
9/26/2018	2.3					
10/1/2018			6.8	5.6	4	9.1
2/25/2019		42.1				
3/28/2019				8	4.3	
3/29/2019			7.3			9
4/3/2019	2.1					
6/12/2019		83.4				
9/24/2019	2.4			5.3	4.3	9.1
9/25/2019			6.6			
10/8/2019		128				
3/17/2020		98.6				



# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			8.1		5.3	
3/19/2020				10		12.4
3/24/2020	2.1					
9/22/2020	2.1	145				
9/23/2020				8.1	3.4	11.8
9/25/2020			6.1			
3/2/2021	2.3	156	6			
3/3/2021				9	4.4	10.6
8/19/2021			6.7	8.9	4.9	
8/20/2021		121				
8/26/2021	2.4					
8/27/2021						16.7
2/8/2022		107				
2/9/2022				9.3	5.1	18
2/10/2022	2.4		6.2			
8/30/2022	2.4	101		10.2		20.1
8/31/2022			5.8		4.8	

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			12		
6/2/2016	1.3	5.8			
7/25/2016	1.2		8.4		
7/26/2016		6.7			
9/1/2016				770	
9/14/2016			8.6		
9/15/2016		6			
9/19/2016	1.2				
11/1/2016	1.3	4.9	8.9		
11/16/2016				780	
1/11/2017		4.5	8.6		
1/16/2017	<1				
2/21/2017	1.4				
2/27/2017				650	
3/1/2017			9.3		
3/2/2017		4.4			
4/26/2017	1.4	5.1	11		
5/8/2017				770	
6/28/2017		5.4	12		
6/30/2017	<1				
7/13/2017				630	
10/4/2017	1.4	6.2	12		
10/11/2017				540	
4/4/2018				430	
6/7/2018		6.7			
6/8/2018			9.6		
6/11/2018	1.1				
9/19/2018				395	
10/1/2018		7.1	9.1		
10/2/2018	1				
3/27/2019				437	
4/1/2019	0.96 (J)	7.2	8.5		
9/25/2019	0.81 (J)	7	13.8		
10/9/2019				<1	
3/17/2020				439	
3/19/2020	1.6	9	12.9		
7/6/2020				385	
8/27/2020					144
8/28/2020				394	
9/22/2020					156
9/23/2020		6.9	16.8	430	
9/24/2020	0.69 (J)				
10/7/2020				427	156
11/12/2020				385	147
3/1/2021	0.88 (J)				139
3/2/2021				387	
3/3/2021		7	9.6		
8/19/2021	1	7.5			
8/20/2021					122
8/27/2021			18.2	423	
2/9/2022		7.2	16	415	119
2/11/2022	2.8				

# Time Series

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	1.1	6.9	13.9	459	122

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					<0.001	<0.001
6/7/2016				<0.001		
7/27/2016				<0.001	<0.001	<0.001
8/30/2016	<0.001					
8/31/2016		<0.001	<0.001			
9/16/2016				<0.001		<0.001
9/19/2016					<0.001	
11/3/2016				<0.001	<0.001	<0.001
11/14/2016	<0.001		<0.001			
11/15/2016		<0.001				
1/11/2017				<0.001	<0.001	<0.001
2/24/2017	<0.001					
2/27/2017			<0.001			
2/28/2017		<0.001				
3/1/2017					<0.001	<0.001
3/2/2017				<0.001		
4/26/2017					<0.001	<0.001
5/2/2017				<0.001		
5/8/2017	<0.001	<0.001				
5/9/2017			<0.001			
6/28/2017					<0.001	<0.001
6/29/2017				<0.001		
7/11/2017	<0.001					
7/13/2017		<0.001	<0.001			
10/10/2017	<0.001	<0.001	<0.001			
3/28/2018				<0.001	<0.001	<0.001
4/2/2018	<0.001					
4/3/2018			<0.001			
4/4/2018		<0.001				
9/19/2018	<0.001	<0.001	<0.001			
3/5/2019				<0.001		<0.001
3/6/2019					<0.001	
4/2/2019				<0.001		
4/3/2019					<0.001	<0.001
8/20/2019	5.8E-05 (J)	<0.001	<0.001			
9/25/2019				<0.001		
9/26/2019					<0.001	<0.001
10/8/2019	8.4E-05 (J)	<0.001				
10/9/2019			<0.001			
2/11/2020				<0.001	<0.001	<0.001
3/17/2020	<0.001	8E-05 (J)	<0.001			
3/24/2020				<0.001	<0.001	<0.001
8/27/2020	<0.001	<0.001				
8/28/2020			<0.001			
9/23/2020				<0.001	<0.001	<0.001
2/9/2021					<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001			
2/8/2022	<0.001					
2/9/2022		<0.001	<0.001	<0.001	<0.001	<0.001
8/30/2022				<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001			

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					<0.001	<0.001
6/7/2016	<0.001	<0.001				
7/26/2016					<0.001	<0.001
7/27/2016	<0.001					
7/28/2016		<0.001				
9/14/2016					<0.001	<0.001
9/19/2016	<0.001	<0.001				
11/2/2016	<0.001				<0.001	<0.001
11/3/2016		<0.001				
1/12/2017						<0.001
1/13/2017	<0.001	<0.001			<0.001	
3/6/2017	<0.001	<0.001			<0.001	
3/7/2017						<0.001
4/26/2017	<0.001	<0.001				
5/1/2017					<0.001	<0.001
6/27/2017						<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			
3/29/2018	<0.001	<0.001			<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				
3/4/2019					<0.001	<0.001
3/5/2019	<0.001	<0.001				
4/2/2019		<0.001				
4/3/2019	<0.001				<0.001	<0.001
8/21/2019			<0.001	<0.001		
9/24/2019		<0.001				<0.001
9/25/2019	<0.001				<0.001	
2/12/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
3/24/2020	<0.001	<0.001		<0.001		<0.001
3/25/2020			<0.001		<0.001	
9/22/2020					<0.001	<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001		
2/8/2021						<0.001
2/9/2021	<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				
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	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
5/1/2007		<0.001				
9/11/2007		<0.001				
3/20/2008		<0.001				
8/27/2008		<0.001				
3/3/2009		<0.001				
11/18/2009		<0.001				
3/3/2010		<0.001				
9/8/2010		<0.001				
3/10/2011		<0.001				
9/8/2011		<0.001				
3/5/2012		<0.001				
9/10/2012		<0.001				
2/6/2013		<0.001				
8/12/2013		<0.001				
2/5/2014		<0.001				
8/5/2014		<0.001				
2/4/2015		<0.001				
2/16/2016		<0.001				
6/1/2016				<0.001	<0.001	
6/2/2016	<0.001		<0.001			
7/25/2016					<0.001	
7/26/2016	<0.001		<0.001	<0.001		
8/31/2016		<0.001				
9/13/2016				<0.001	<0.001	
9/14/2016	<0.001					<0.001
9/15/2016			<0.001			
11/1/2016				<0.001		
11/2/2016			<0.001			
11/4/2016	<0.001				<0.001	<0.001
11/28/2016		<0.001				
12/15/2016						<0.001
1/10/2017			<0.001			
1/11/2017				<0.001		
1/12/2017	<0.001					
1/16/2017					<0.001	<0.001
2/22/2017		<0.001				
3/2/2017				<0.001	<0.001	
3/3/2017						<0.001
3/7/2017	<0.001					
3/8/2017			<0.001			
4/26/2017			<0.001			
4/27/2017				<0.001	<0.001	
4/28/2017						<0.001
5/2/2017	<0.001					
5/8/2017		6E-05 (J)				
5/26/2017						<0.001
6/27/2017	<0.001			<0.001	<0.001	
6/28/2017						<0.001
6/30/2017			<0.001			
7/17/2017		6E-05 (J)				
10/16/2017		7E-05 (J)				
2/19/2018		<0.001				

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/27/2018			<0.001		<0.001	
3/28/2018						<0.001
3/29/2018	<0.001			<0.001		
8/6/2018		<0.001				
2/25/2019		<0.001				
2/26/2019			<0.001			
2/27/2019				<0.001	<0.001	<0.001
3/4/2019	<0.001					
4/3/2019	<0.001					
6/12/2019		<0.001				
8/19/2019		5.5E-05 (J)				
9/24/2019	<0.001					
10/8/2019		<0.001				
2/10/2020				<0.001	5.5E-05 (J)	
2/11/2020						<0.001
2/12/2020	<0.001		8.9E-05 (J)			
3/17/2020		<0.001				
3/18/2020			<0.001		<0.001	
3/19/2020				<0.001		<0.001
3/24/2020	<0.001					
8/26/2020		<0.001				
9/22/2020	<0.001	<0.001				
9/23/2020				<0.001	<0.001	<0.001
9/25/2020			<0.001			
2/8/2021	<0.001					
2/10/2021			<0.001			<0.001
2/12/2021				<0.001	<0.001	
3/2/2021		<0.001				
8/20/2021		<0.001				
2/8/2022		<0.001				
2/9/2022				<0.001	<0.001	<0.001
2/10/2022	<0.001		<0.001			
8/30/2022	<0.001	<0.001		<0.001		<0.001
8/31/2022			<0.001		<0.001	

# Time Series

Constituent: Thallium (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			<0.001		
6/2/2016	<0.001	<0.001			
7/25/2016	<0.001		<0.001		
7/26/2016		0.0001 (J)			
9/1/2016				<0.001	
9/14/2016			<0.001		
9/15/2016		<0.001			
9/19/2016	<0.001				
11/1/2016	<0.001	<0.001	<0.001		
11/16/2016				<0.001	
1/11/2017		<0.001	<0.001		
1/16/2017	<0.001				
2/21/2017	<0.001				
2/27/2017				<0.001	
3/1/2017			<0.001		
3/2/2017		<0.001			
4/26/2017	<0.001	<0.001	<0.001		
5/8/2017				<0.001	
6/28/2017		<0.001	<0.001		
6/30/2017	<0.001				
7/13/2017				<0.001	
10/11/2017				<0.001	
3/27/2018	<0.001				
3/28/2018		<0.001	<0.001		
4/4/2018				<0.001	
9/19/2018				<0.001	
2/26/2019	<0.001				
2/27/2019		<0.001	<0.001		
8/21/2019				<0.001	
10/9/2019				<0.001	
2/11/2020			<0.001		
2/12/2020	<0.001	<0.001			
3/17/2020				<0.001	
3/19/2020	<0.001	<0.001	<0.001		
7/6/2020				7.3E-05 (J)	
8/27/2020					<0.001
8/28/2020				<0.001	
9/23/2020		<0.001	0.00016 (J)		
9/24/2020	<0.001				
11/12/2020				<0.001	<0.001
2/10/2021		<0.001	<0.001		
2/11/2021	<0.001				
8/20/2021					<0.001
8/27/2021				<0.001	
2/9/2022		<0.001	<0.001	<0.001	<0.001
2/11/2022	<0.001				
8/31/2022	<0.001	<0.001	<0.001	<0.001	<0.001



# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
6/6/2016					120	58
6/7/2016				28		
7/27/2016				74	94	35
8/30/2016	319					
8/31/2016		332	402			
9/16/2016				67		35
9/19/2016					92	
11/3/2016				41	104	48
11/14/2016	280		445			
11/15/2016		356				
1/11/2017				104	133	95
2/24/2017	162					
2/27/2017			346			
2/28/2017		483				
3/1/2017					119	79
3/2/2017				77		
4/26/2017					162	36
5/2/2017				142		
5/8/2017	194	296				
5/9/2017			388			
6/28/2017					98	45
6/29/2017				53		
7/11/2017	193					
7/13/2017		345	433			
10/4/2017				61		45
10/5/2017					104	
10/10/2017	175	311	396			
4/2/2018	192					
4/3/2018			418			
4/4/2018		313				
6/7/2018					68	
6/11/2018				70		74
9/19/2018	186	326	413			
9/25/2018				86	109	63
3/27/2019	170	302	383			
4/2/2019				72		
4/3/2019					89	63
9/25/2019				81		
9/26/2019					126	72
10/8/2019	172	324				
10/9/2019			432			
3/17/2020	165	283	391			
3/24/2020				71	91	59
9/22/2020	141	294				
9/23/2020			404	99	103	81
3/1/2021	145	276	379			
3/3/2021				57	95	37
8/19/2021	134	333	391			
8/26/2021						31
8/27/2021				93	112	
2/8/2022	151					
2/9/2022		311	400	81	103	60

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-47 (bg)	YGWC-44	YGWC-45	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)
8/30/2022				81	100	52
8/31/2022	116	343	445			

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
6/2/2016					96	160
6/7/2016	38	60				
7/26/2016					92	177
7/27/2016	74					
7/28/2016		81				
9/14/2016					102	187
9/19/2016	45	68				
11/2/2016	53				115	181
11/3/2016		61				
1/12/2017						202
1/13/2017	46	76			67	
3/6/2017	164	167			159	
3/7/2017						257
4/26/2017	34	50				
5/1/2017					107	165
6/27/2017						189
6/29/2017	68	94			79	
10/3/2017		149				170
10/4/2017	54					
10/5/2017					95	
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					151
6/7/2018					90	
6/28/2018			88	112		
8/7/2018			89	103		
9/24/2018			82	107		
9/25/2018	73	122				
9/26/2018					116	144
3/26/2019				90		
3/27/2019			75			
4/2/2019		134				
4/3/2019	57				111	142
9/24/2019		157				129
9/25/2019	75				117	
10/9/2019			119	98		
3/24/2020	76	117		84		139
3/25/2020			158		146	
9/22/2020					83	104
9/24/2020	69	113	170	77		
3/2/2021						52
3/3/2021	53				80	
3/4/2021		110	168	57		
8/26/2021			249		93	123
8/27/2021	67					

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)
9/1/2021		137				
9/3/2021				88		
2/8/2022			248	93		
2/9/2022	72	131				
2/10/2022						127
2/11/2022					102	
8/30/2022		122				148
8/31/2022	62		242	92	92	

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
6/1/2016				120	54	
6/2/2016	66		46			
7/25/2016					48	
7/26/2016	78		54	94		
8/31/2016		209				
9/13/2016				105	67	
9/14/2016	73					152
9/15/2016			54			
11/1/2016				44		
11/2/2016			71			
11/4/2016	75				60	148
11/28/2016		102				
12/15/2016						191
1/10/2017			45			
1/11/2017				107		
1/12/2017	86					
1/16/2017					65	180
2/22/2017		164				
3/2/2017				98	61	
3/3/2017						156
3/7/2017	108					
3/8/2017			178			
4/26/2017			52			
4/27/2017				116	31	
4/28/2017						130
5/2/2017	103					
5/8/2017		145				
5/26/2017						223
6/27/2017	73			89	42	
6/28/2017						166
6/30/2017			45			
7/17/2017		185				
10/3/2017	89			119	58	153
10/5/2017			40			
10/16/2017		218				
2/19/2018		173				
6/5/2018				127		
6/6/2018					96	
6/7/2018	142					146
6/8/2018			114			
8/6/2018		158				
9/26/2018	86					
10/1/2018			50	117	60	155
2/25/2019		92				
3/28/2019				87	87	
3/29/2019			63			150
4/3/2019	83					
6/12/2019		226				
9/24/2019	79			124	54	146
9/25/2019			64			
10/8/2019		276				
3/17/2020		185				

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-5I (bg)	GWA-2 (bg)	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)
3/18/2020			57		35	
3/19/2020				116		148
3/24/2020	68					
9/22/2020	75	281				
9/23/2020				108	15	161
9/25/2020			54			
3/2/2021	67	296	67			
3/3/2021				99	39	138
8/19/2021			54	105	44	
8/20/2021		254				
8/26/2021	86					
8/27/2021						150
2/8/2022		283				
2/9/2022				105	57	156
2/10/2022	77		56			
8/30/2022	86	244		116		153
8/31/2022			51		46	

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:40 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
6/1/2016			150		
6/2/2016	36	130			
7/25/2016	50		135		
7/26/2016		141			
9/1/2016				1240	
9/14/2016			127		
9/15/2016		153			
9/19/2016	35				
11/1/2016	<25	92	75		
11/16/2016				1220	
1/11/2017		159	148		
1/16/2017	47				
2/21/2017	<25				
2/27/2017				1060	
3/1/2017			182		
3/2/2017		117			
4/26/2017	55	181	92		
5/8/2017				1160	
6/28/2017		169	126		
6/30/2017	42				
7/13/2017				996	
10/4/2017	31	141	147		
10/11/2017				835	
4/4/2018				1470	
6/7/2018		95			
6/8/2018			158		
6/11/2018	59				
9/19/2018				702	
10/1/2018		165	138		
10/2/2018	57				
3/27/2019				641	
4/1/2019	54	149	19 (J)		
9/25/2019	51	157	159		
10/9/2019				809	
3/17/2020				733	
3/19/2020	47	146	148		
7/6/2020				793	
8/27/2020					349
8/28/2020				838	
9/22/2020					296
9/23/2020		157	155	832	
9/24/2020	51				
10/7/2020				842	336
11/12/2020				760	317
3/1/2021	23				265
3/2/2021				782	
3/3/2021		137	111		
8/19/2021	50	144			
8/20/2021					289
8/27/2021			155	810	
2/9/2022		154	145	846	278
2/11/2022	66				

# Time Series

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:40 PM  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

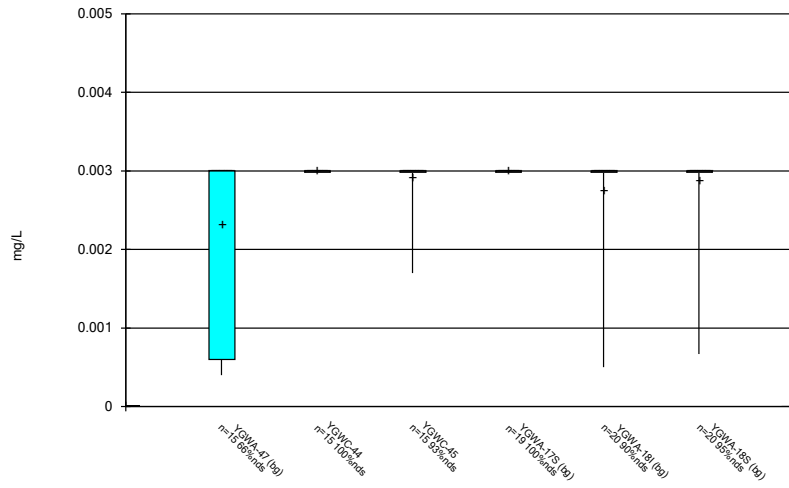
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	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)	YGWC-46A	YGWC-52
8/31/2022	33	141	137	948	266



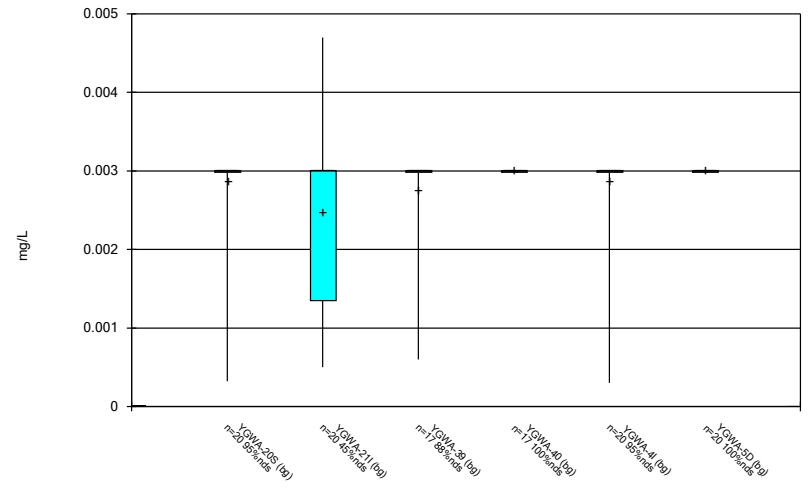
FIGURE B.

Box & Whiskers Plot



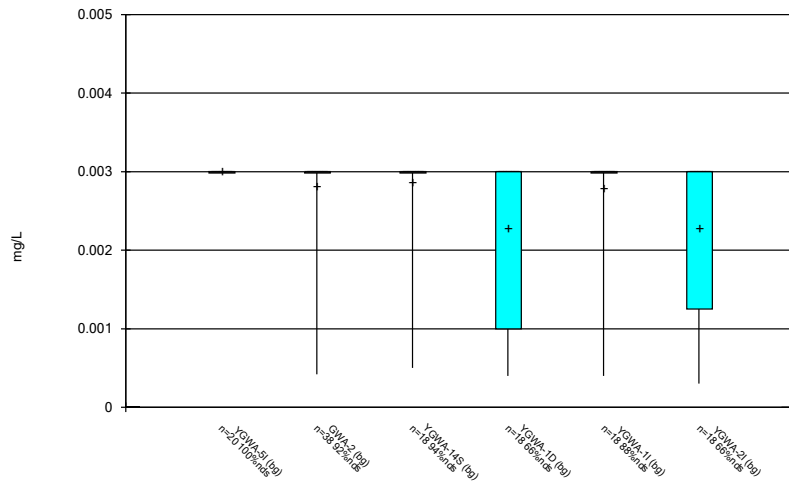
Constituent: Antimony Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



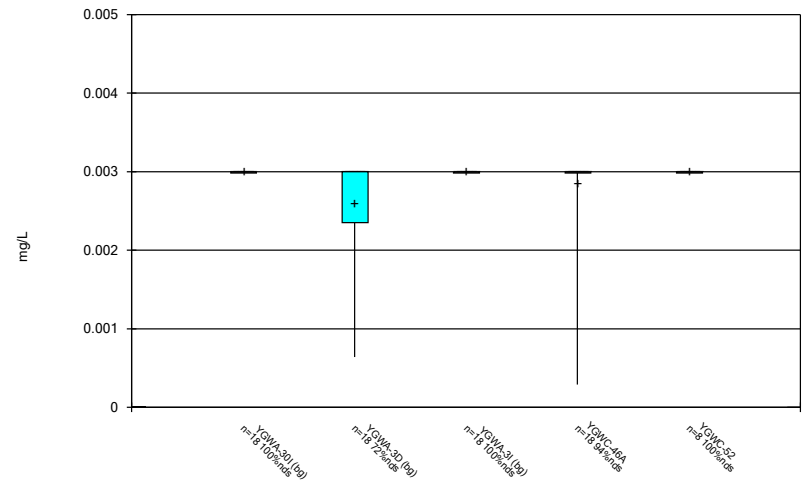
Constituent: Antimony Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



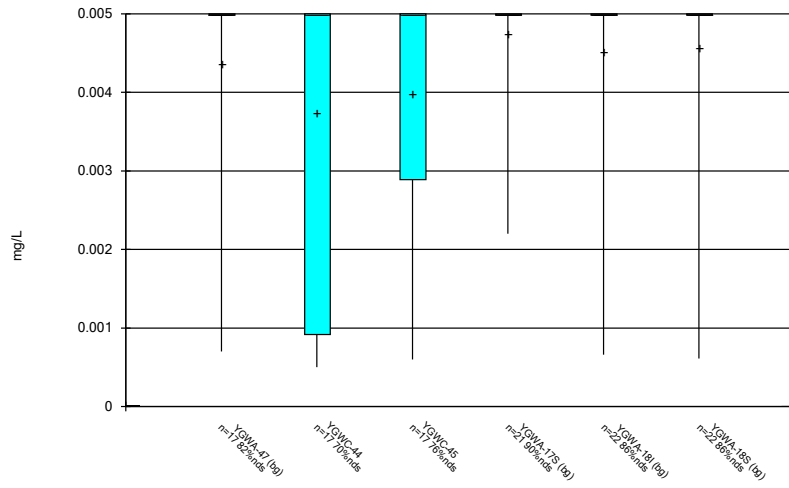
Constituent: Antimony Analysis Run 10/6/2022 4:41 PM  
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Box & Whiskers Plot



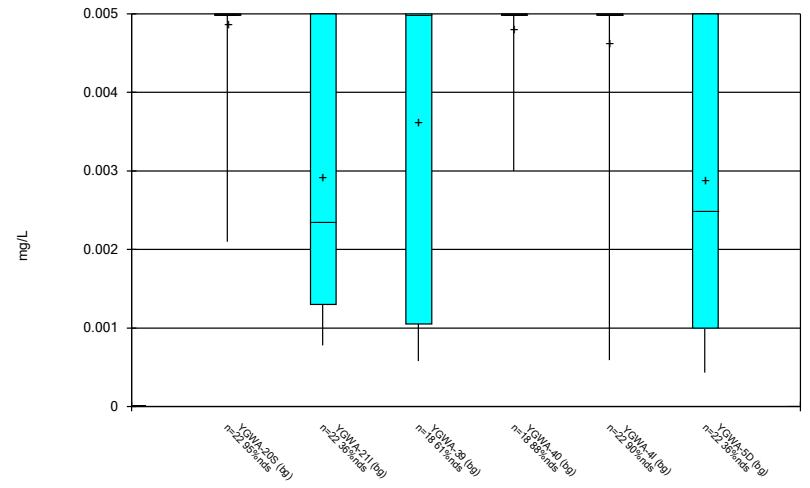
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



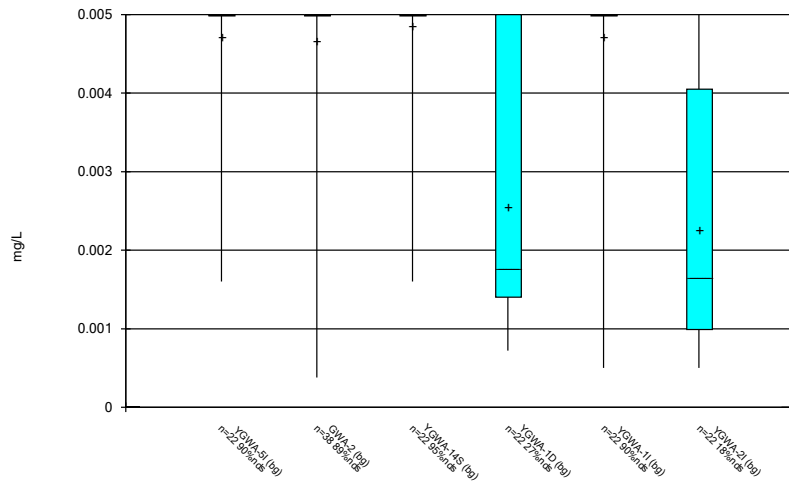
Constituent: Arsenic Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



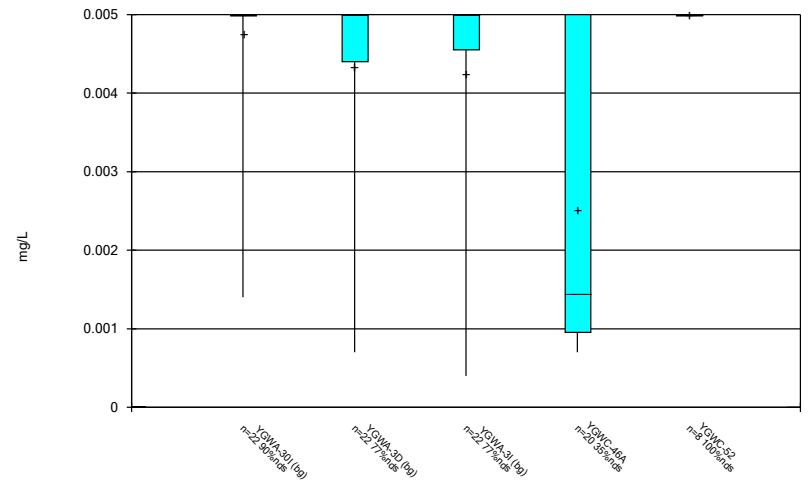
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



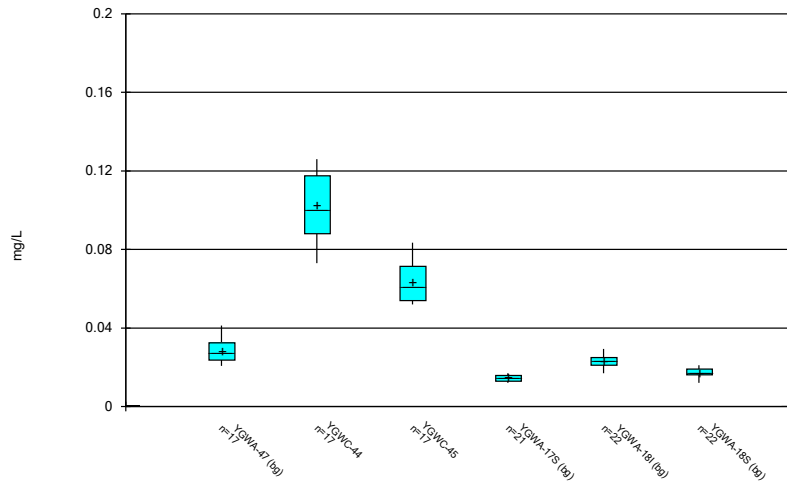
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



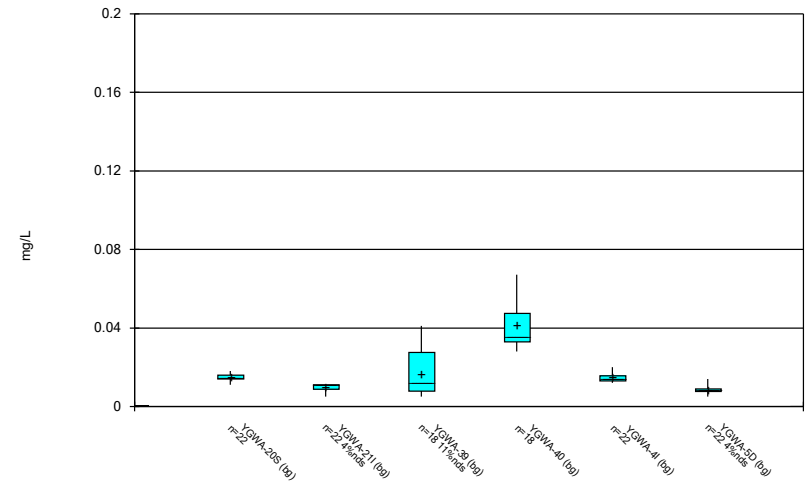
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



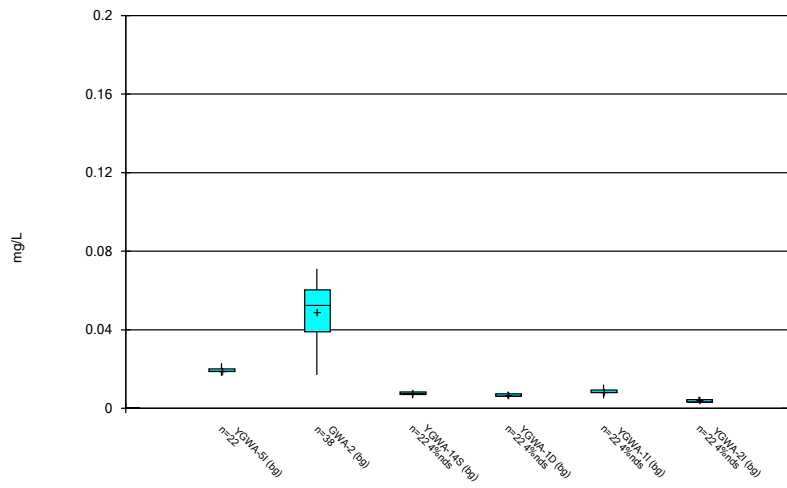
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



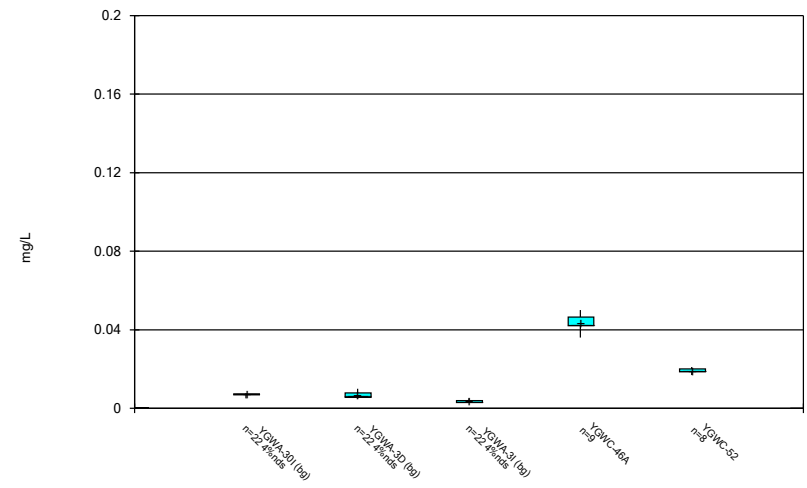
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



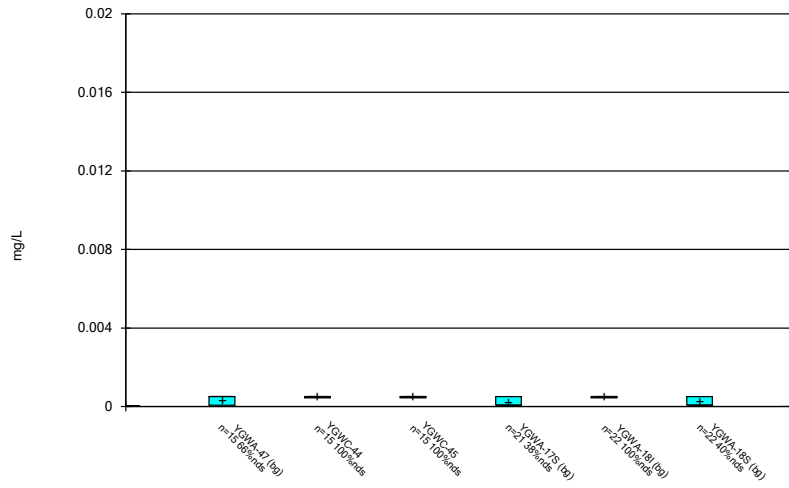
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



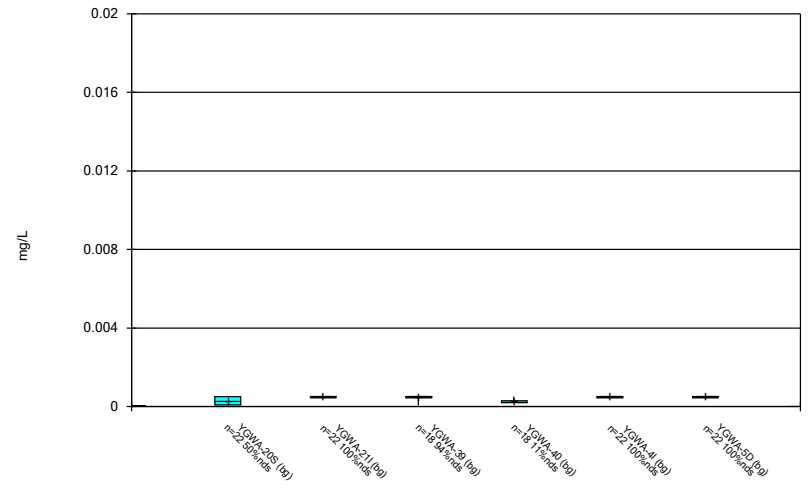
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



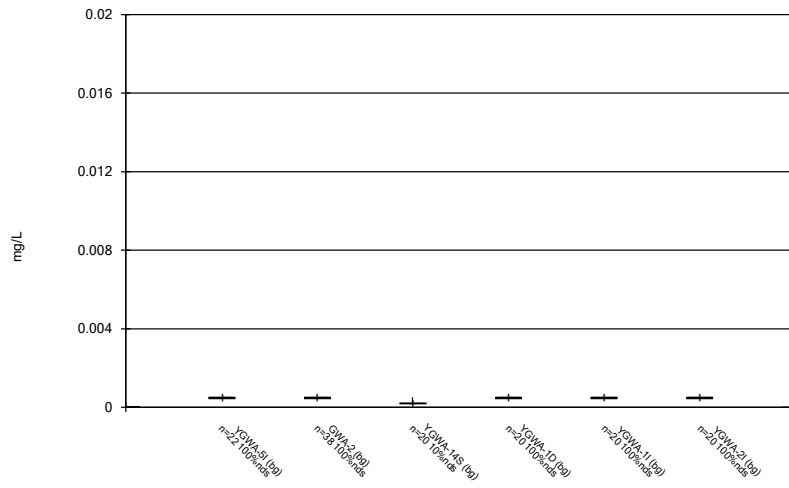
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



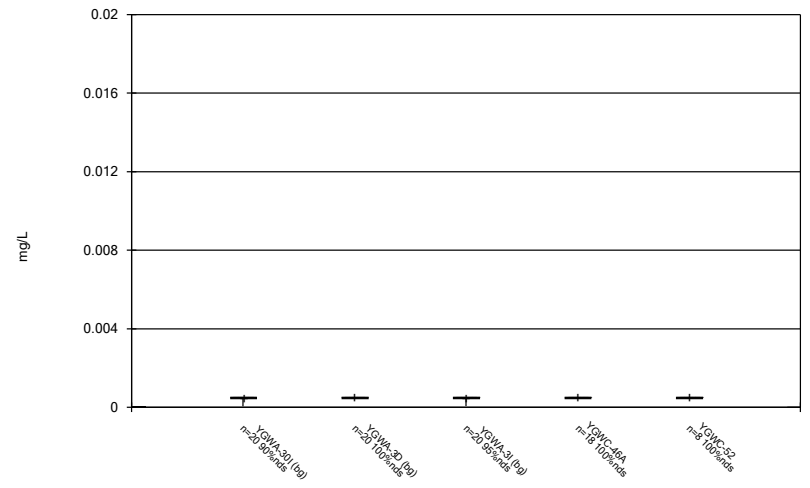
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### Box & Whiskers Plot



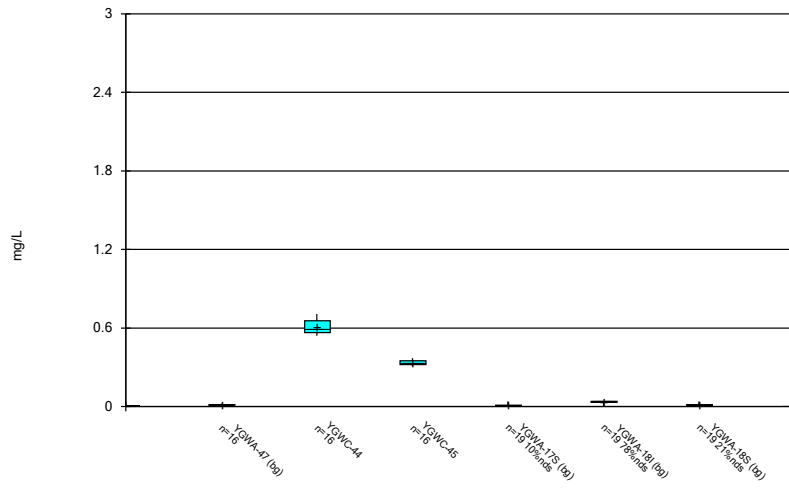
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



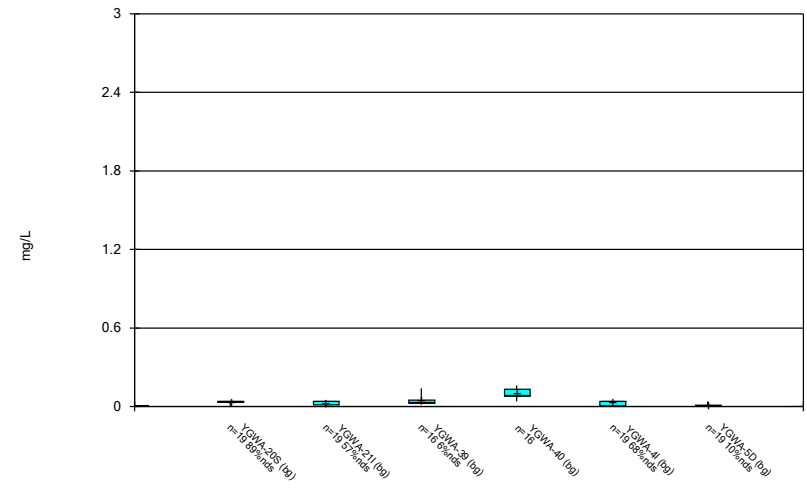
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



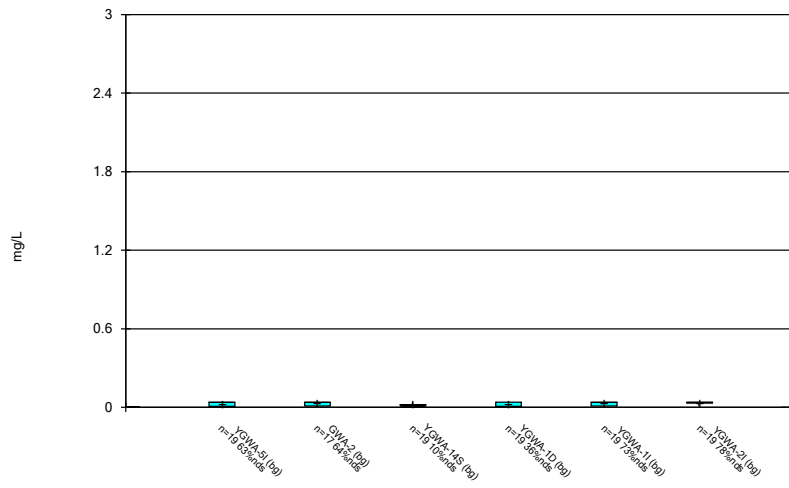
Constituent: Boron, total Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



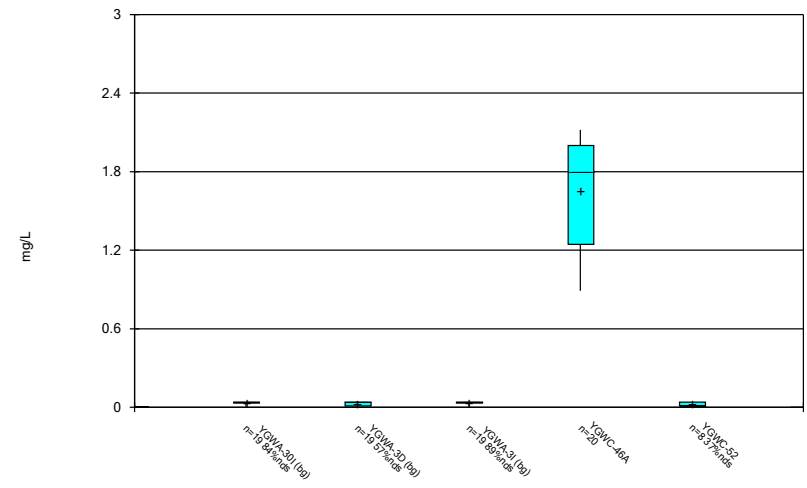
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



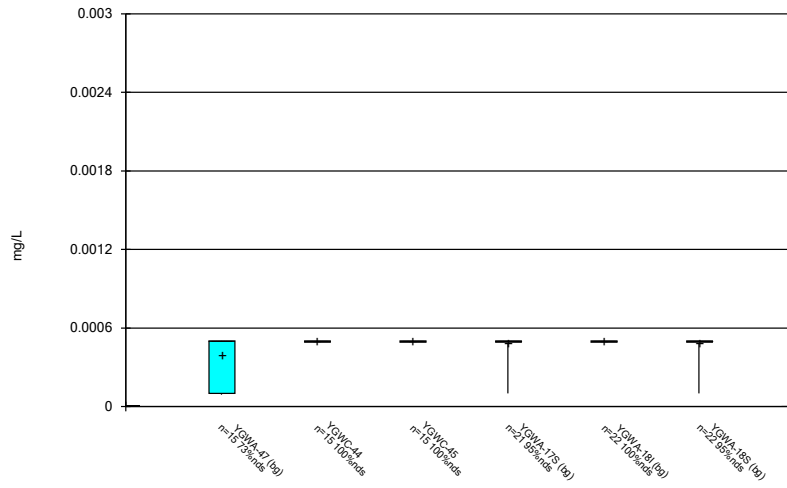
Constituent: Boron, total Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



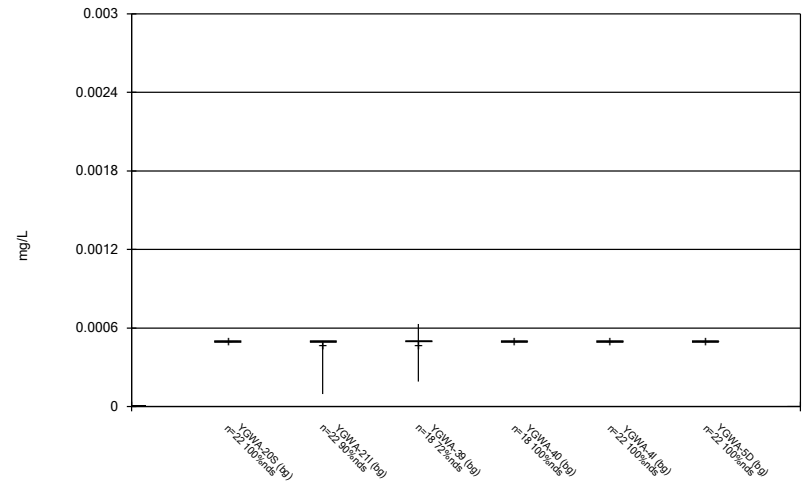
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### Box & Whiskers Plot



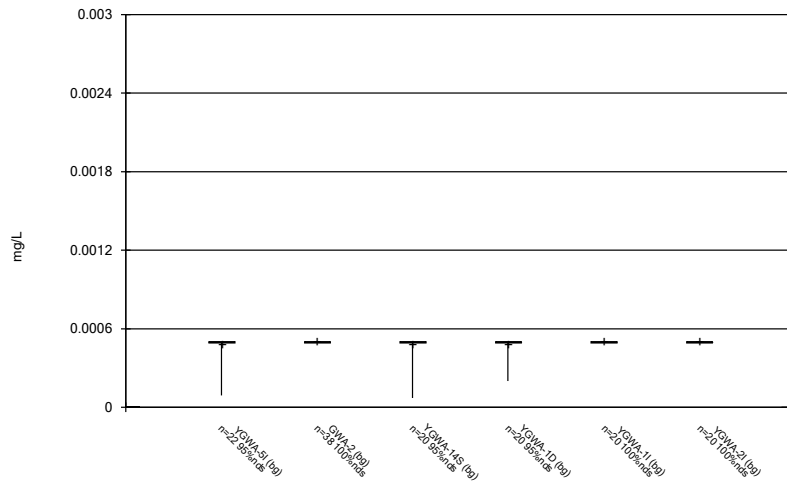
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



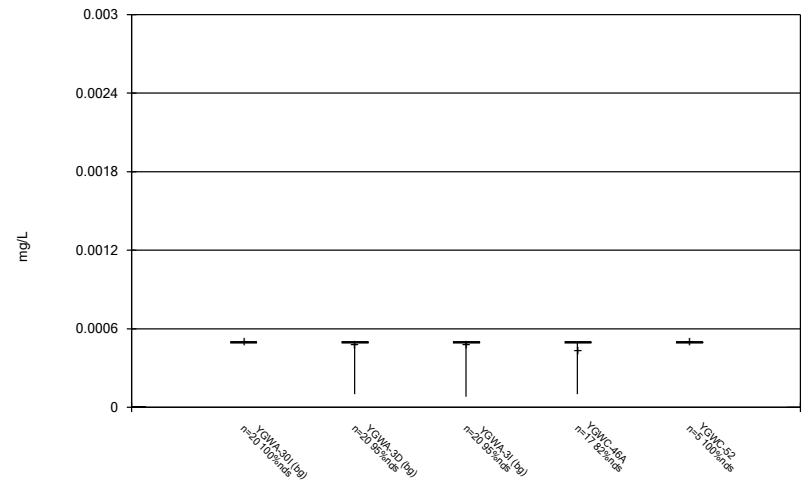
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



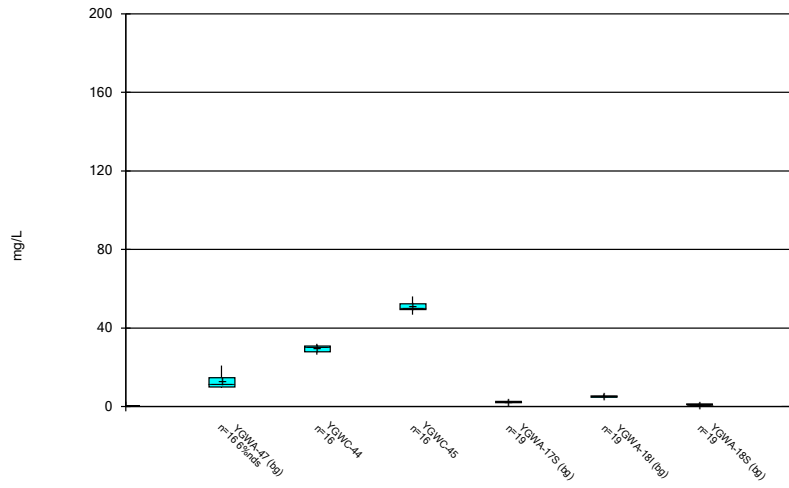
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



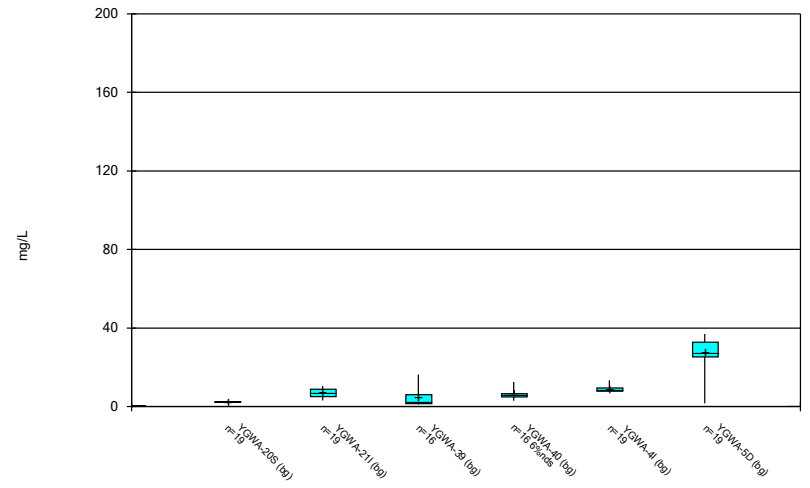
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Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



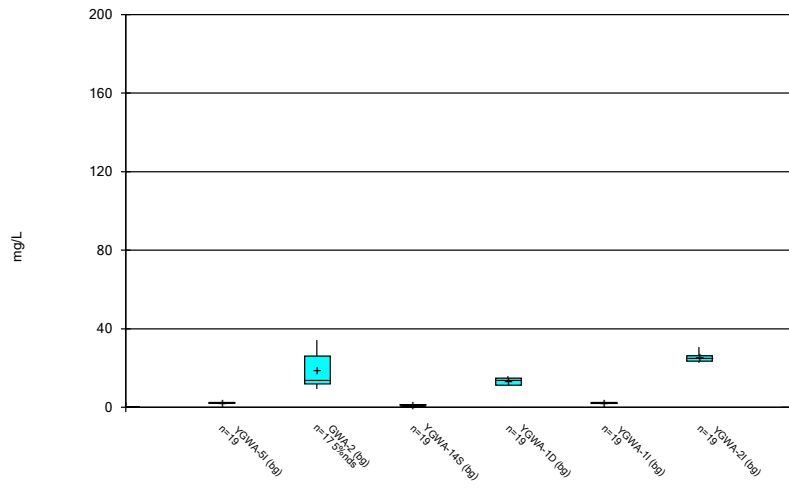
Constituent: Calcium, total Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



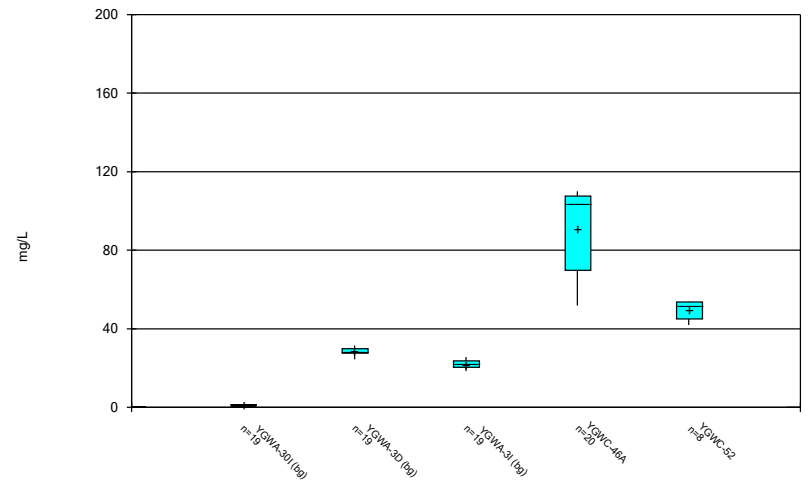
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

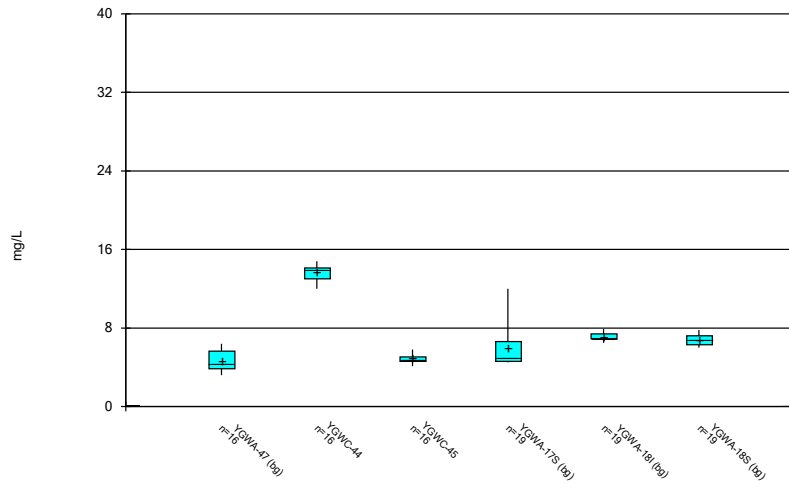
Box & Whiskers Plot



Constituent: Calcium, total Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

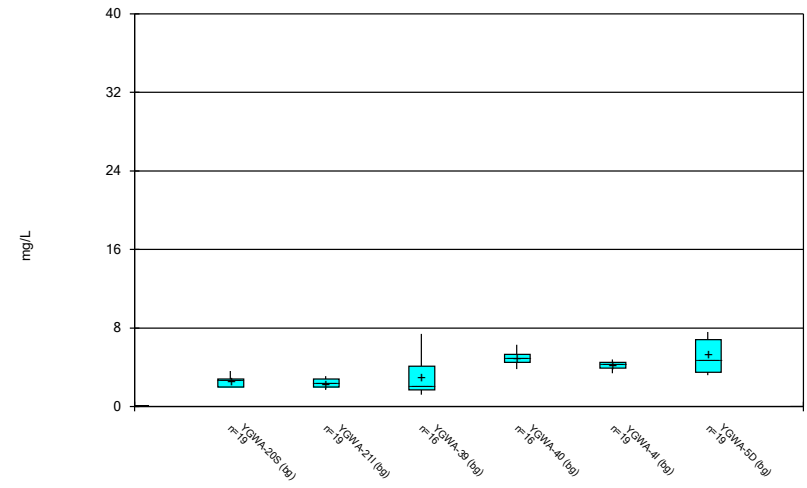


### Box & Whiskers Plot



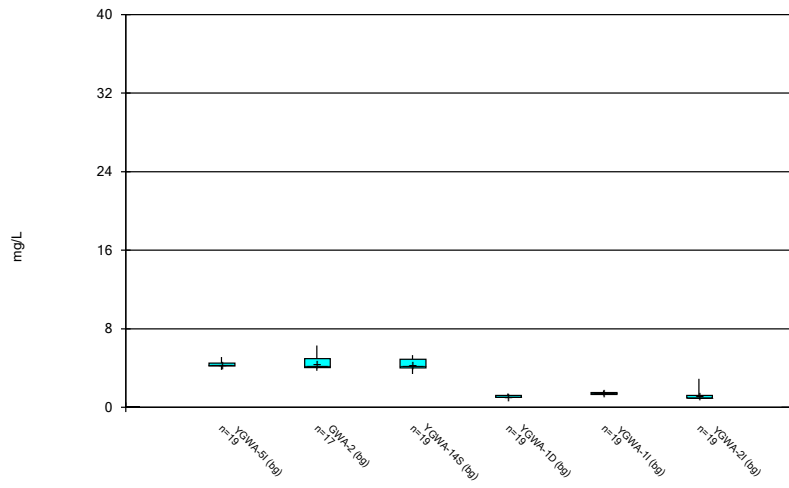
Constituent: Chloride, Total Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



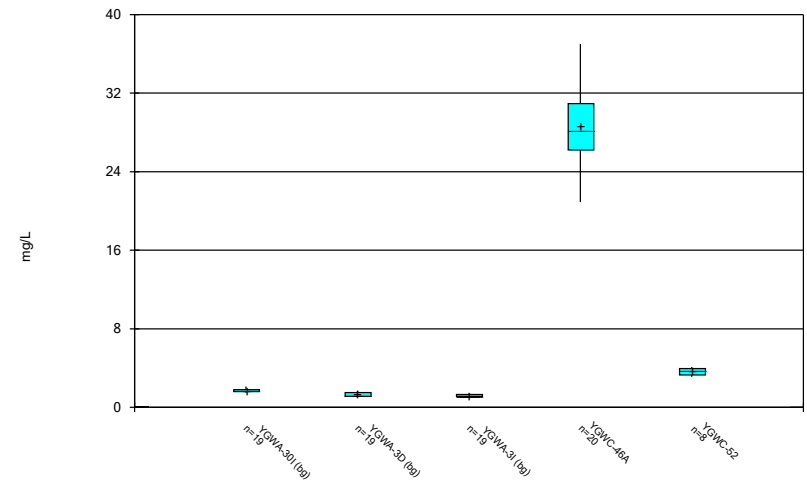
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



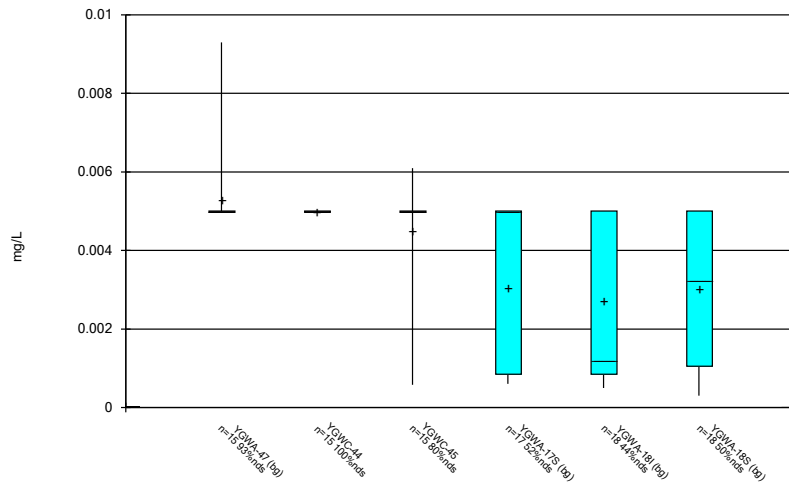
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



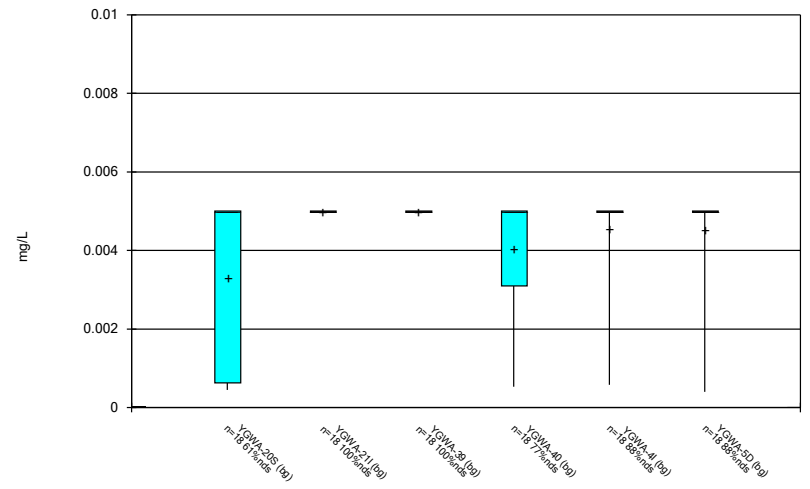
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Box & Whiskers Plot



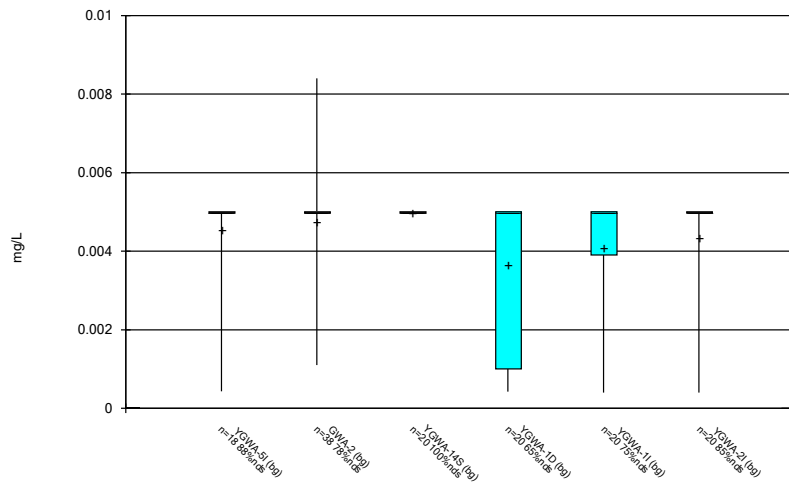
Constituent: Chromium Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



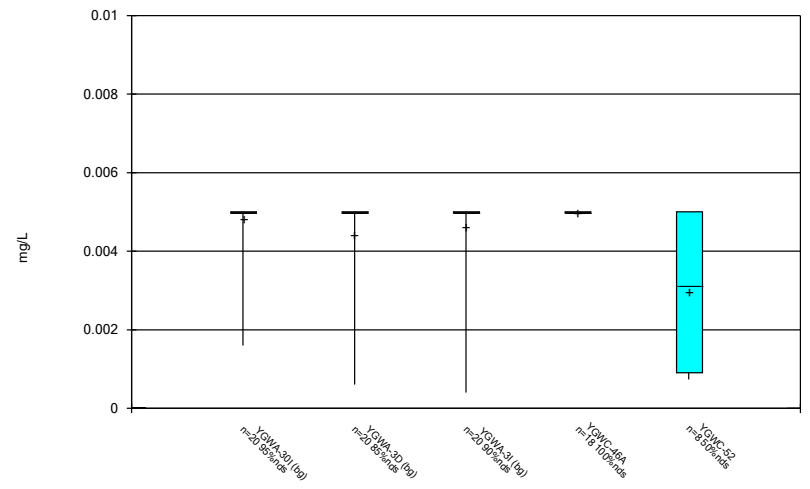
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



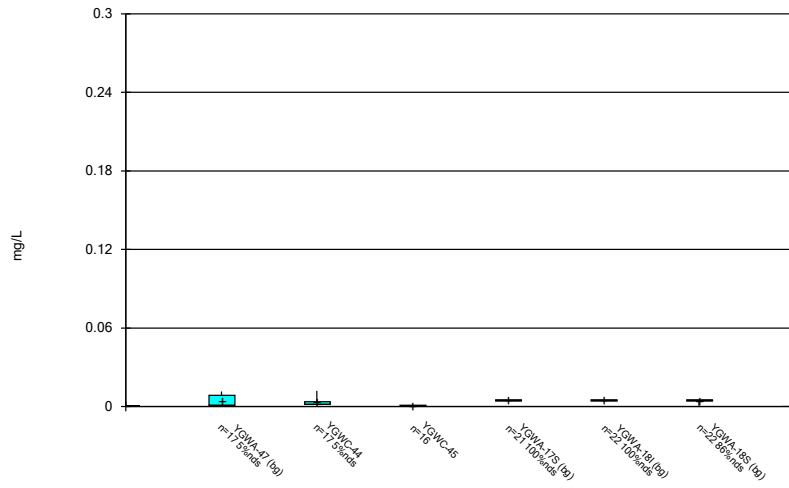
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



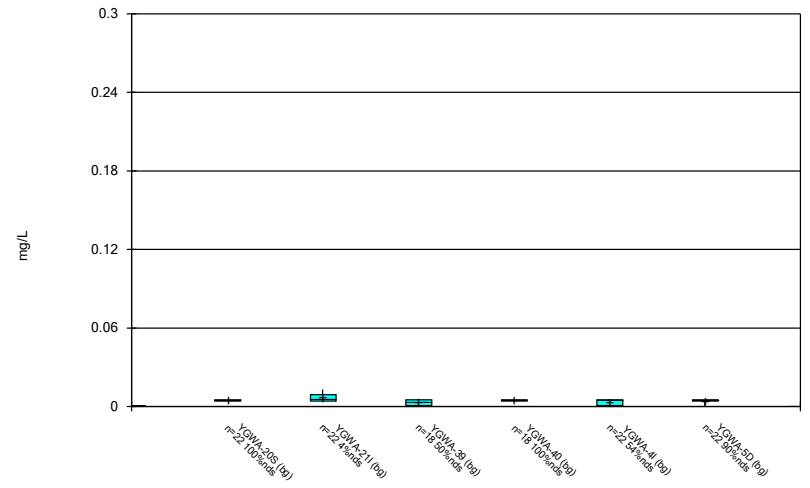
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



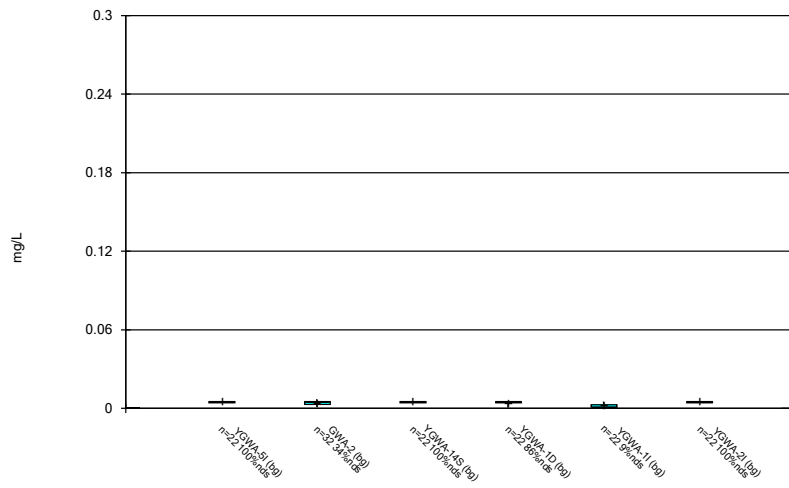
Constituent: Cobalt Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



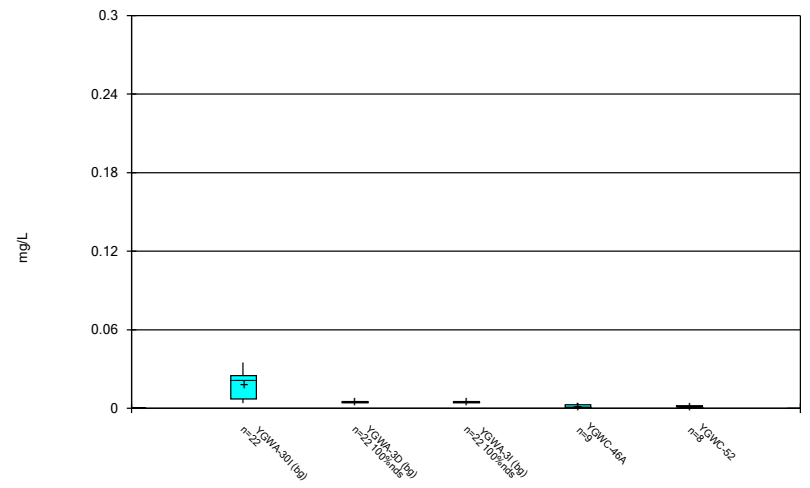
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



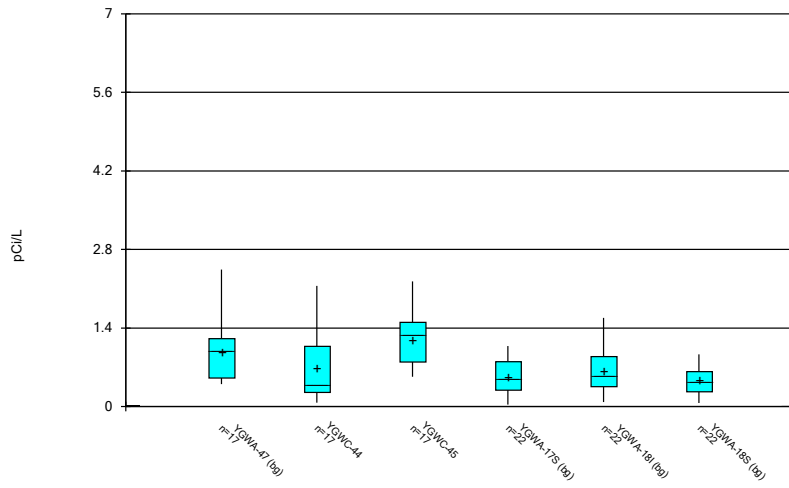
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



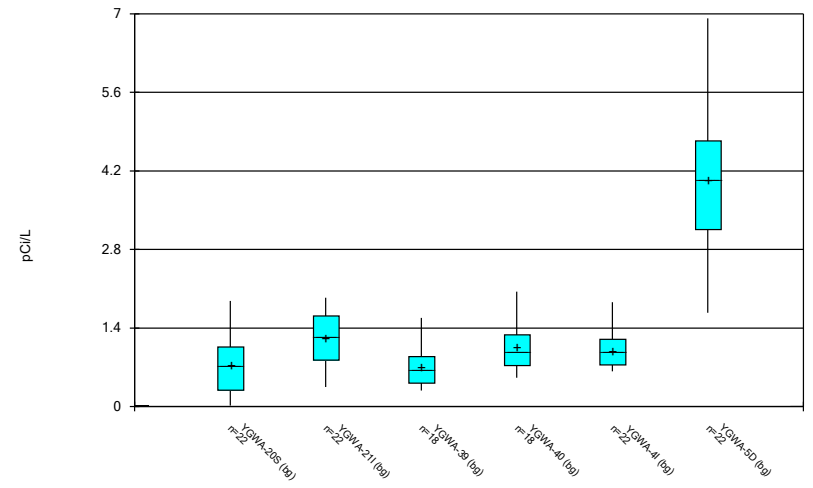
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



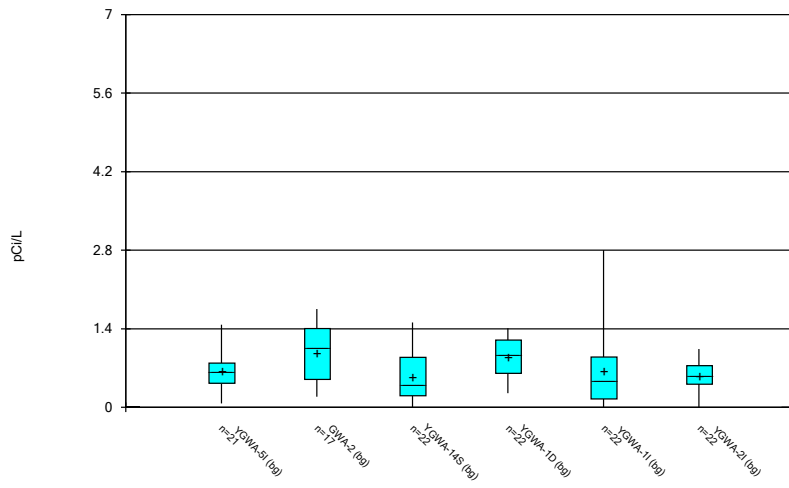
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



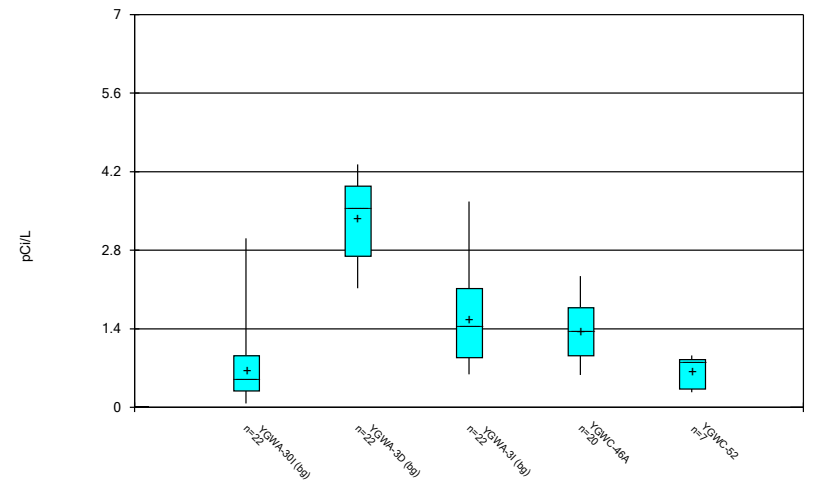
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



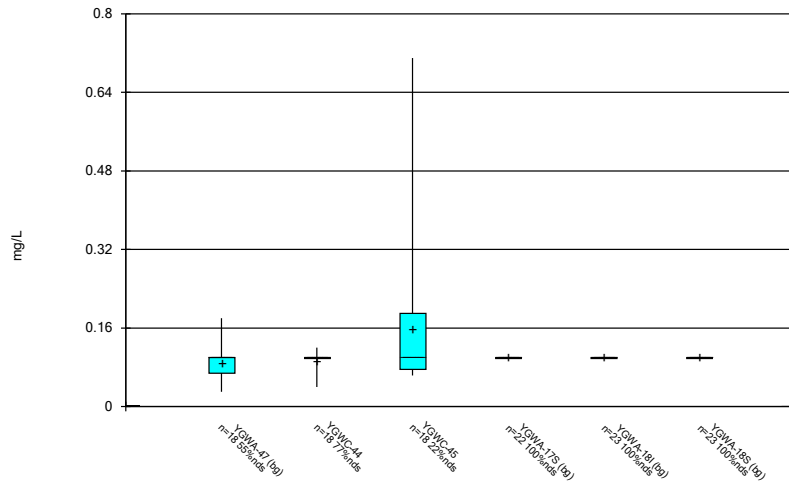
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



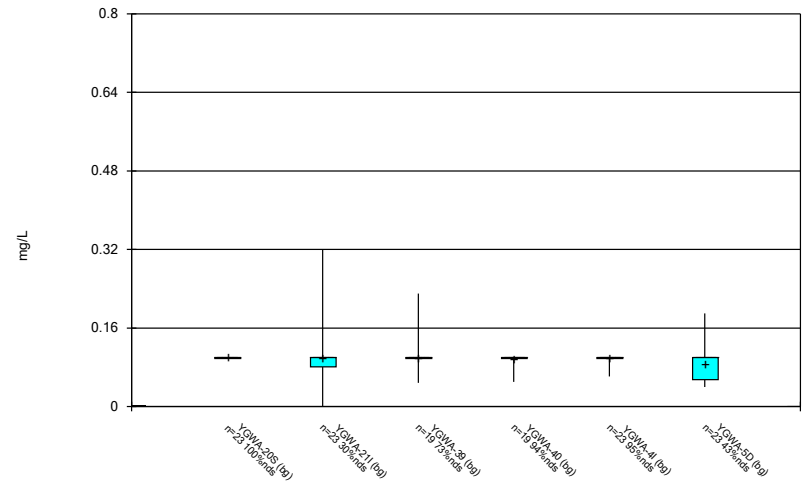
Constituent: Combined Radium 226 + 228 Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



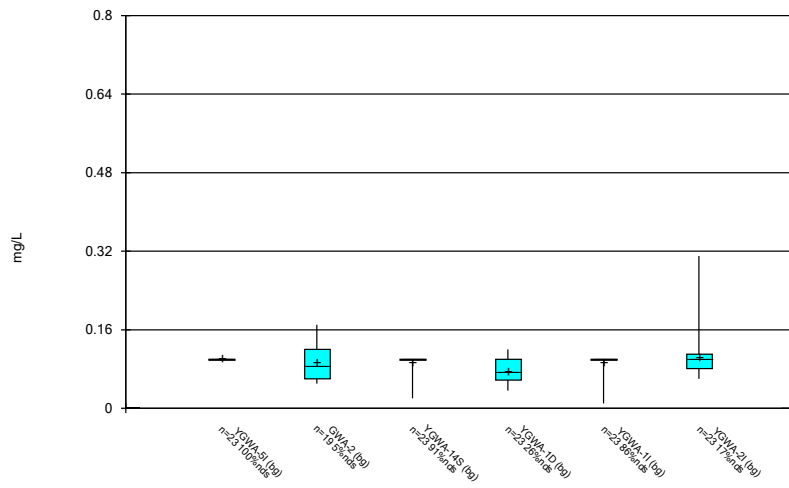
Constituent: Fluoride, total Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



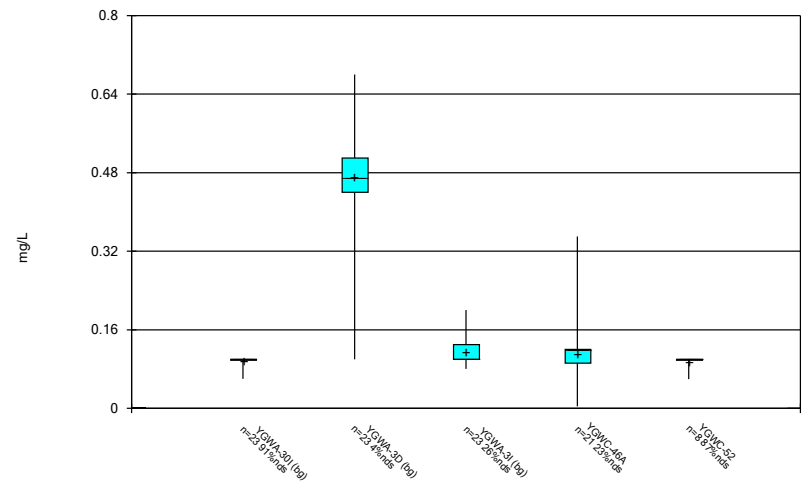
Constituent: Fluoride, total Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



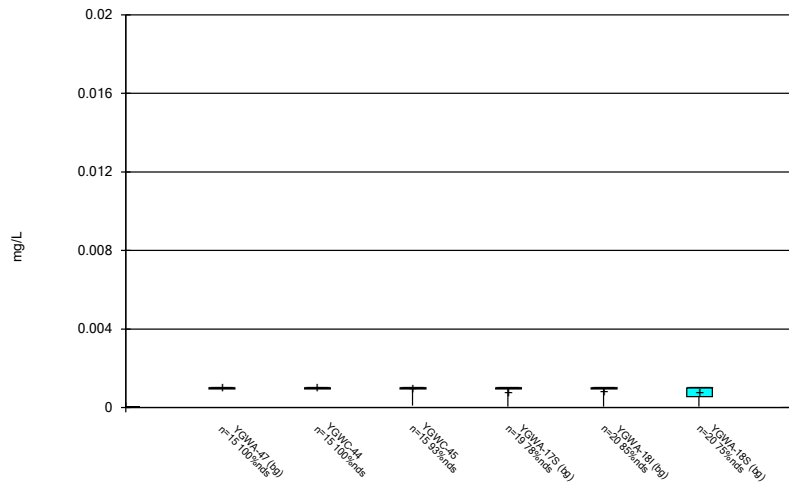
Constituent: Fluoride, total Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



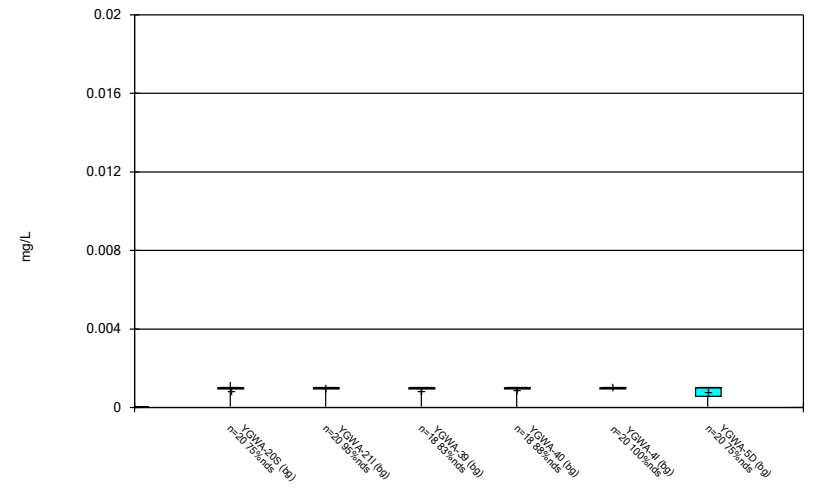
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



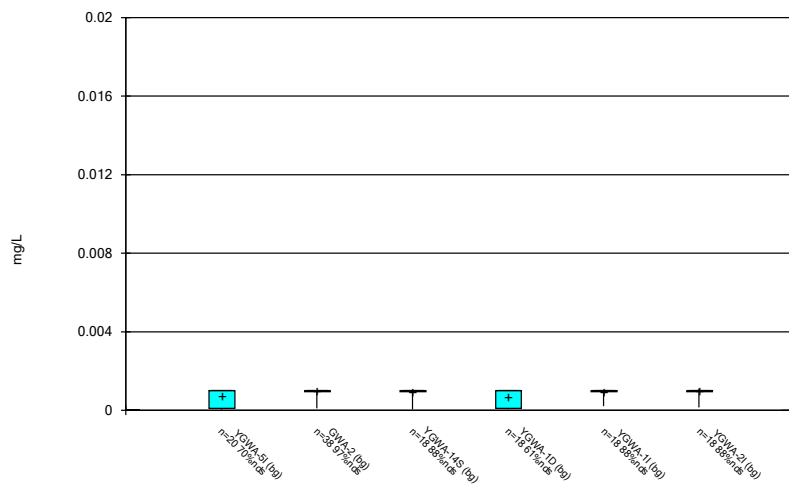
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### Box & Whiskers Plot



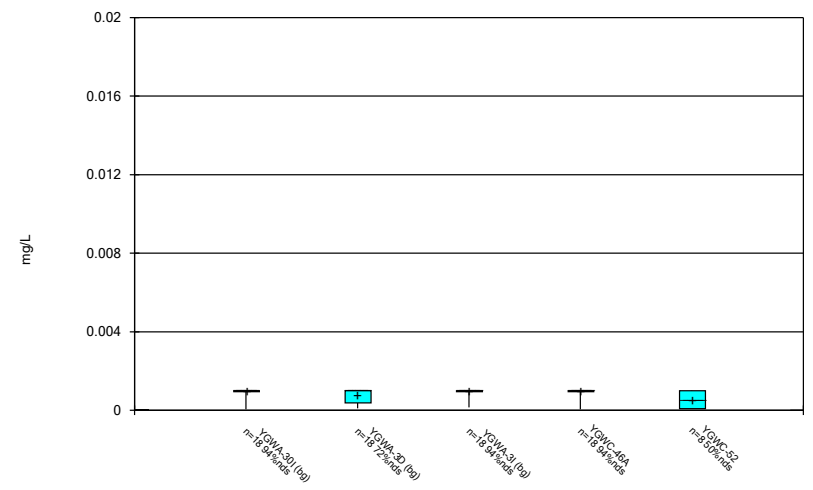
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



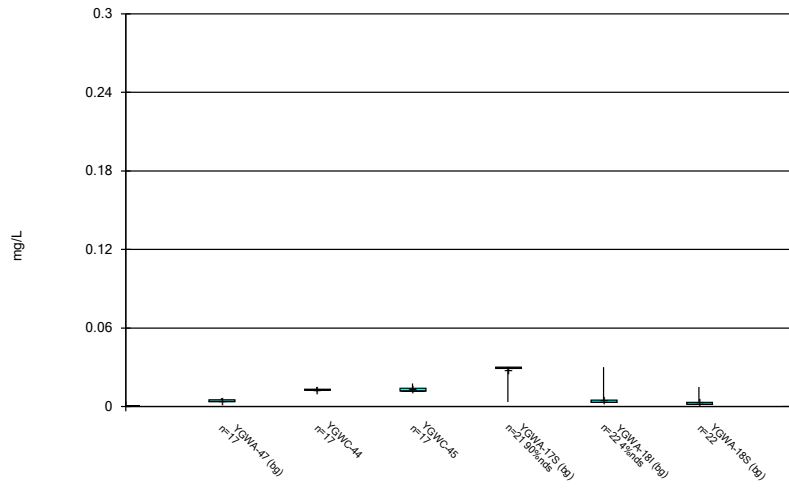
Constituent: Lead Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



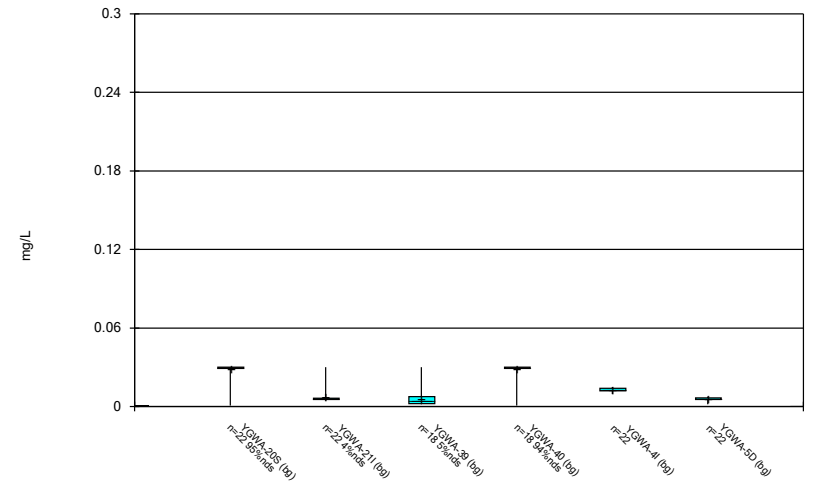
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



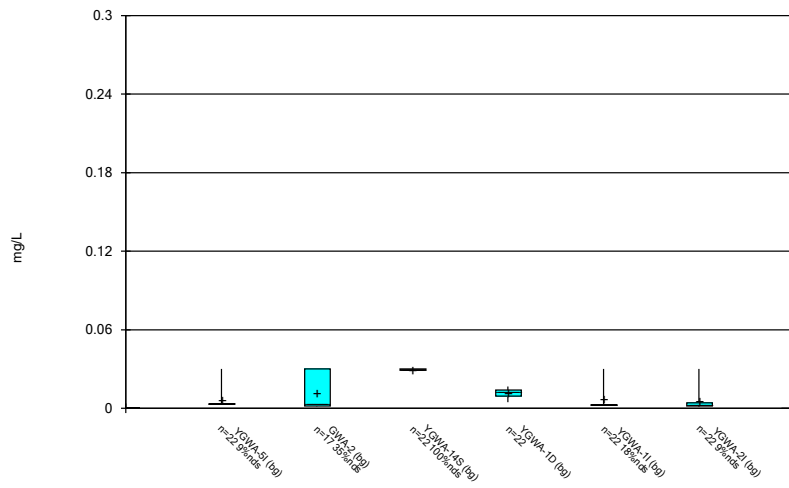
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Box & Whiskers Plot



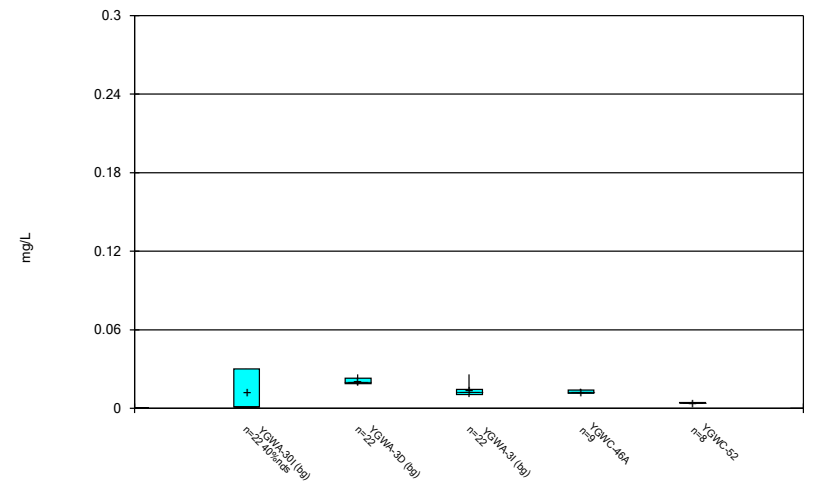
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



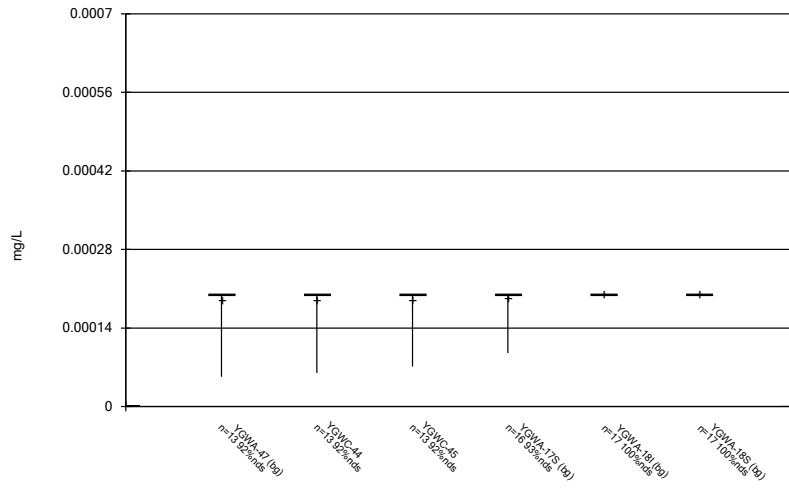
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



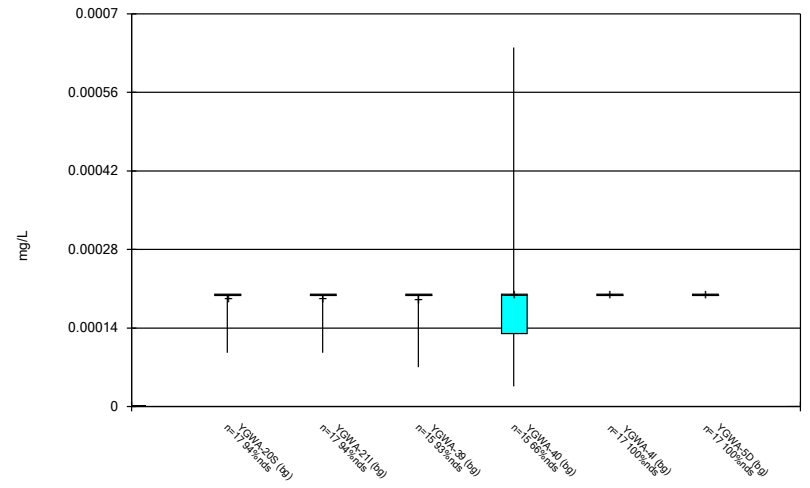
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Box & Whiskers Plot



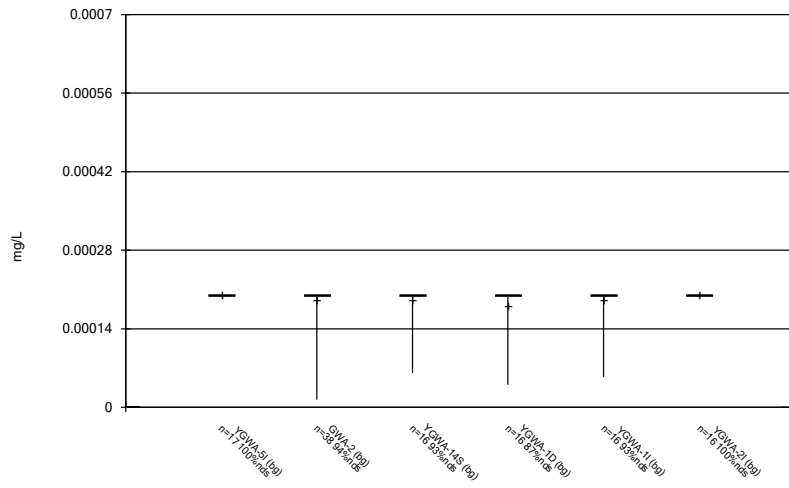
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Box & Whiskers Plot



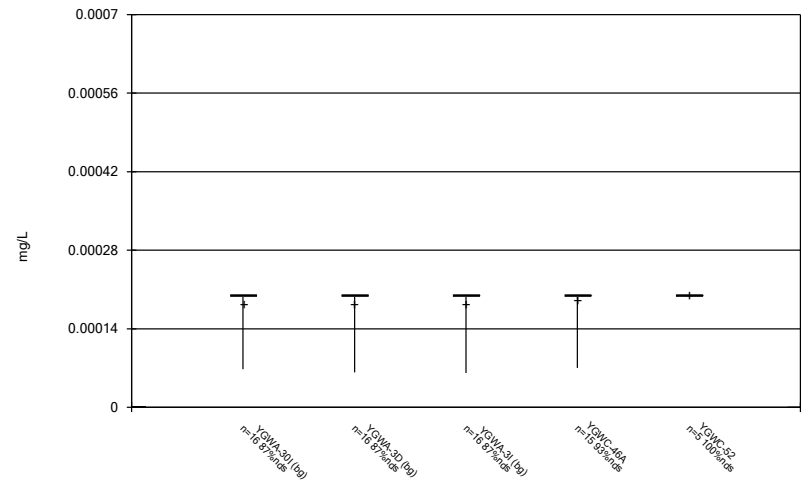
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



Constituent: Mercury Analysis Run 10/6/2022 4:41 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

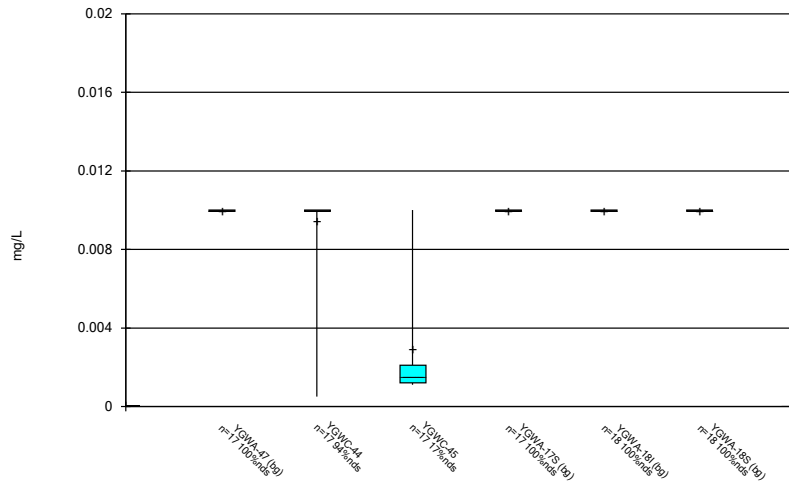
Box & Whiskers Plot



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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

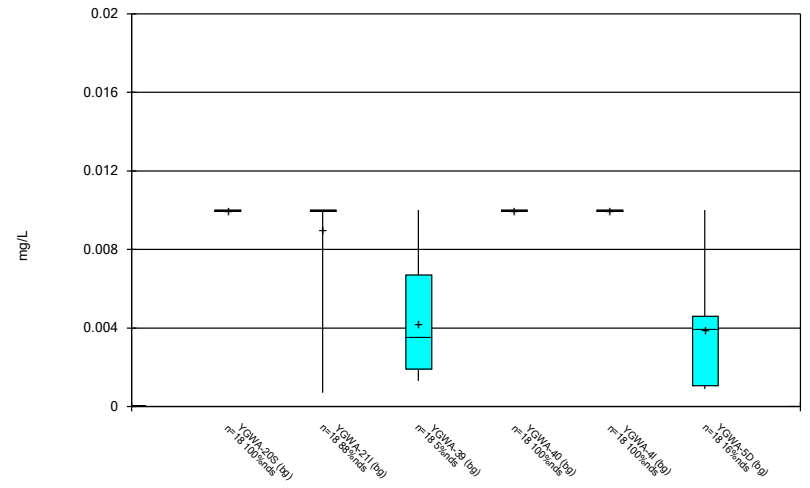


### Box & Whiskers Plot



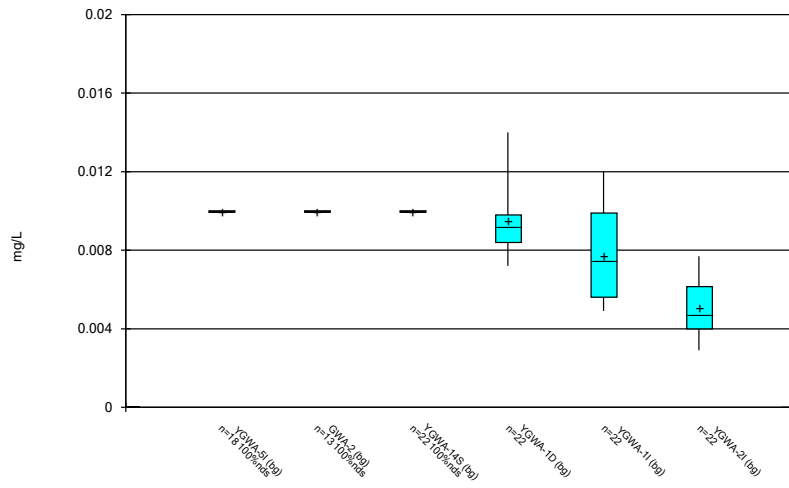
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



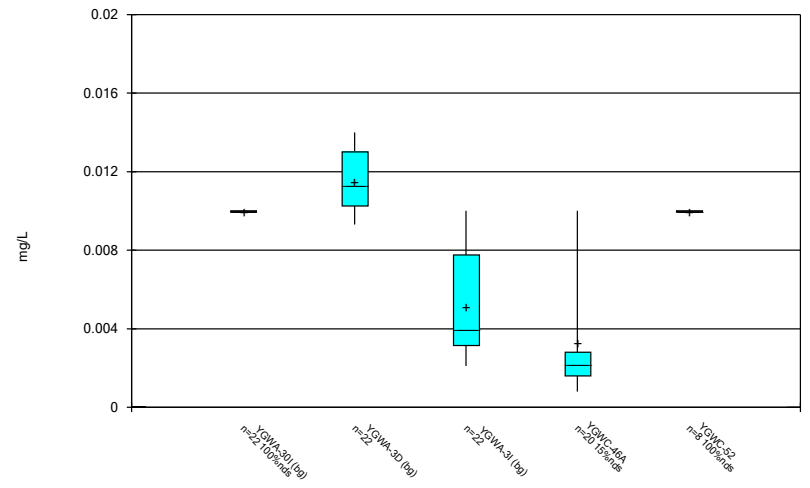
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



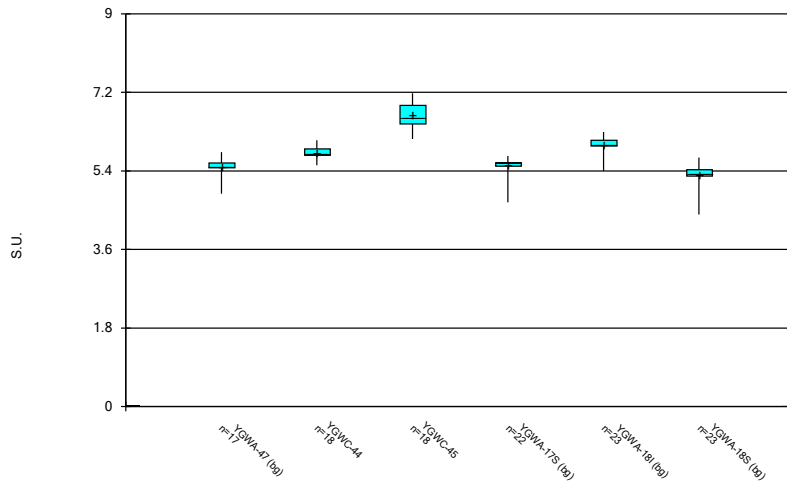
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



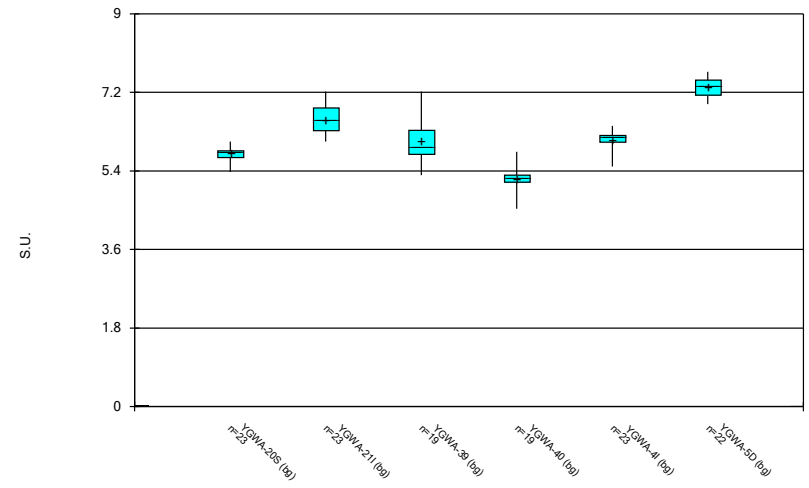
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



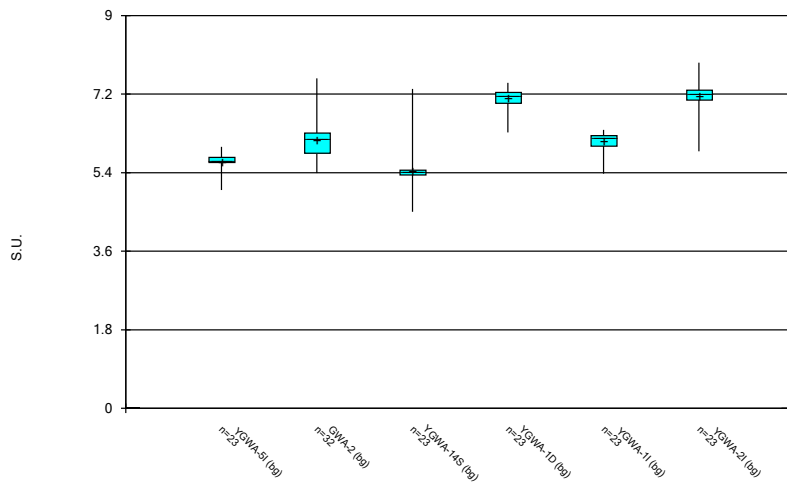
Constituent: pH, Field Analysis Run 10/6/2022 4:42 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



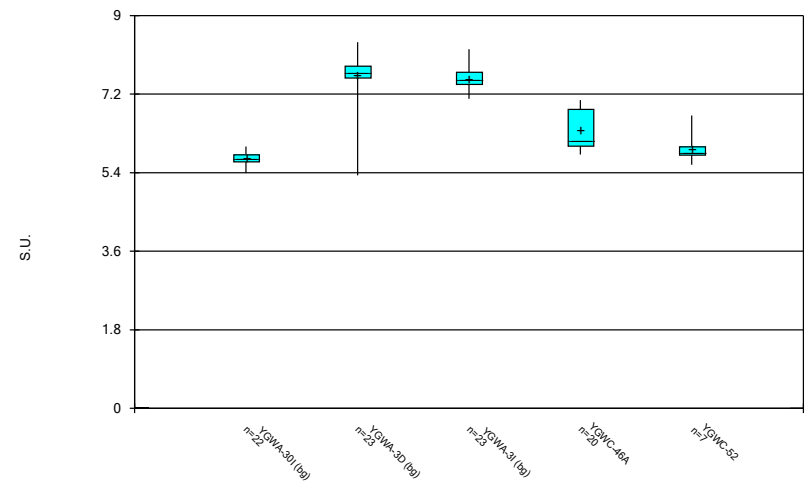
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Box & Whiskers Plot



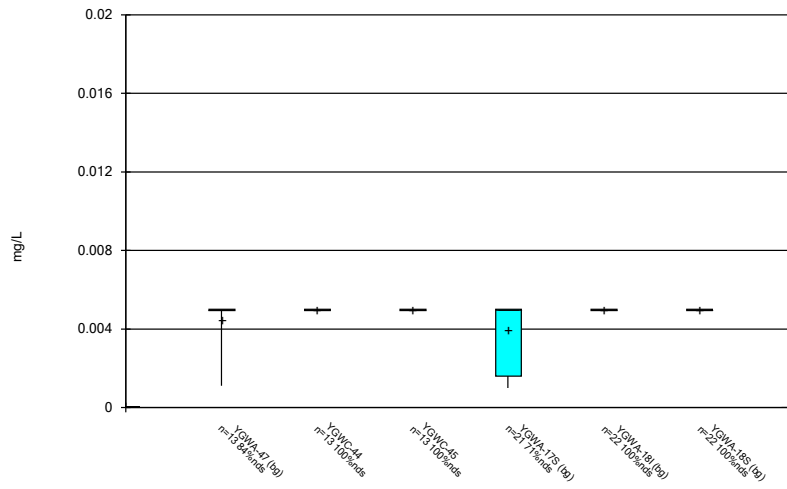
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Box & Whiskers Plot



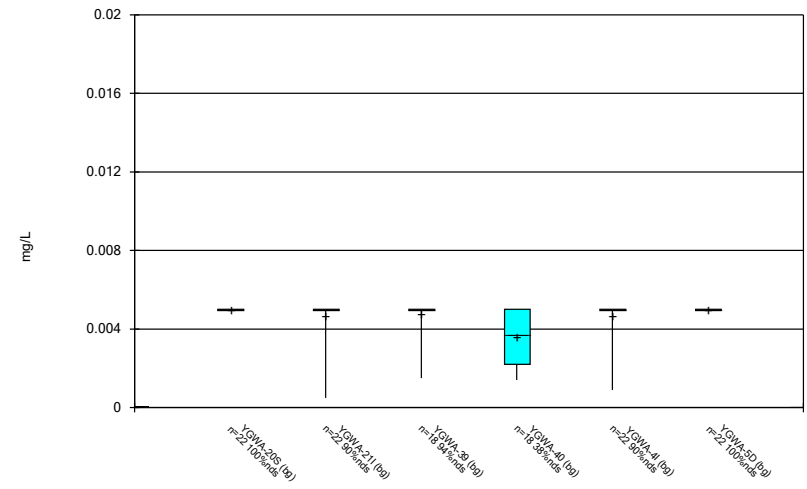
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



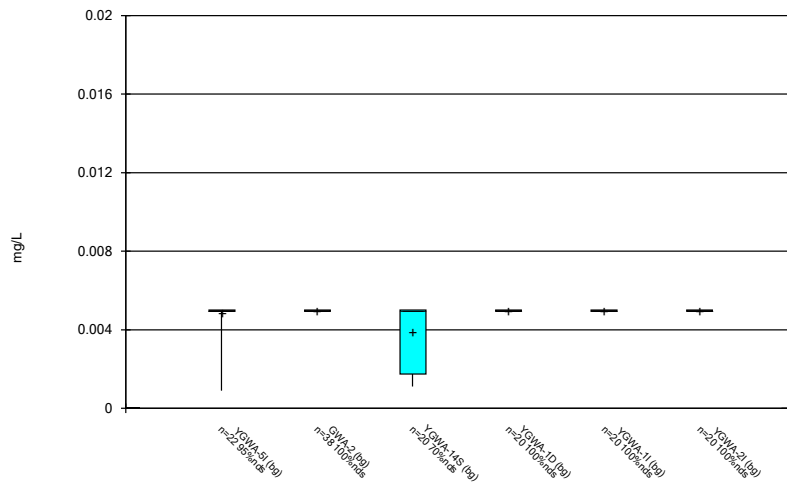
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



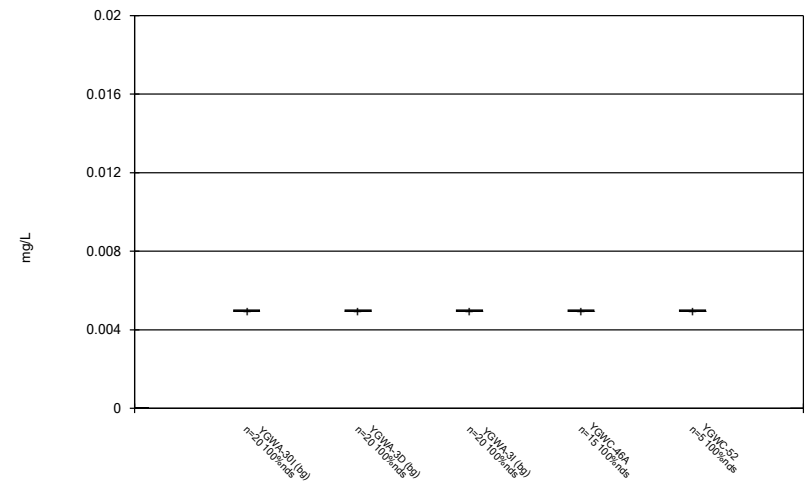
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### Box & Whiskers Plot



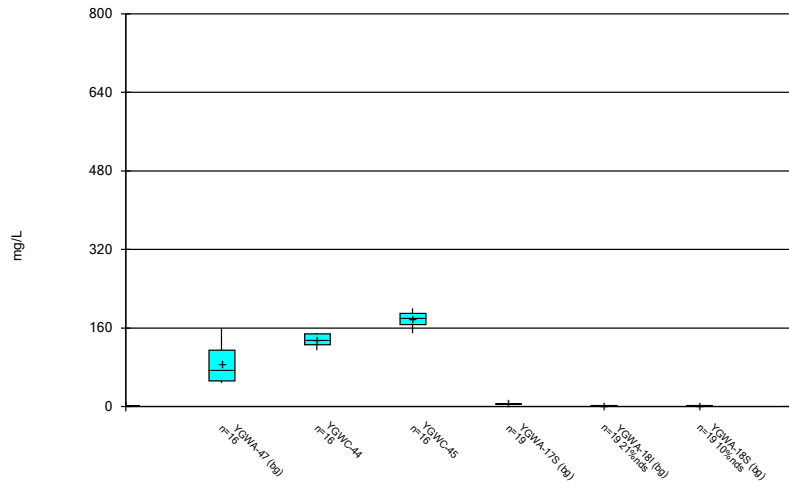
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



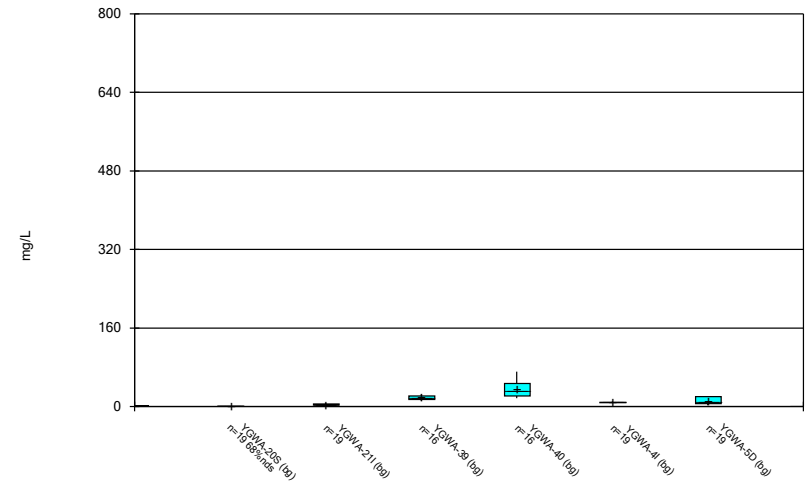
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



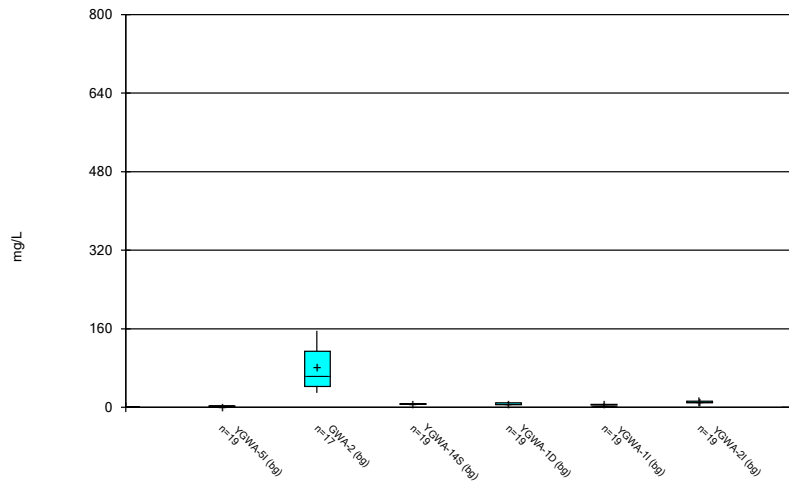
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



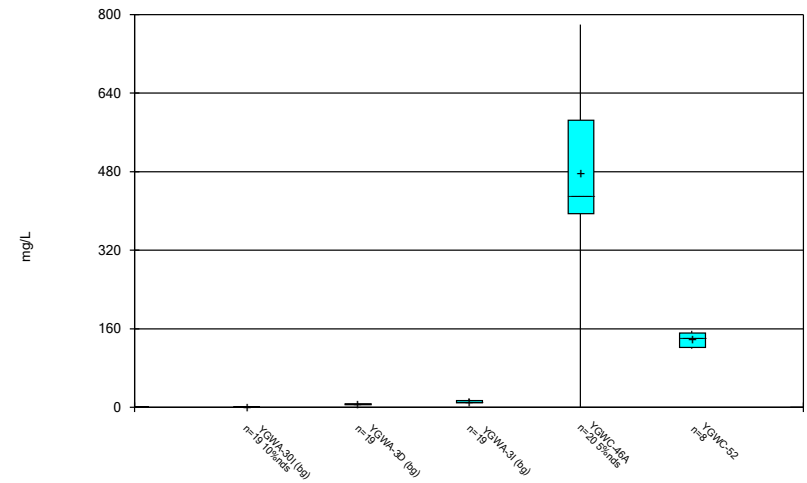
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



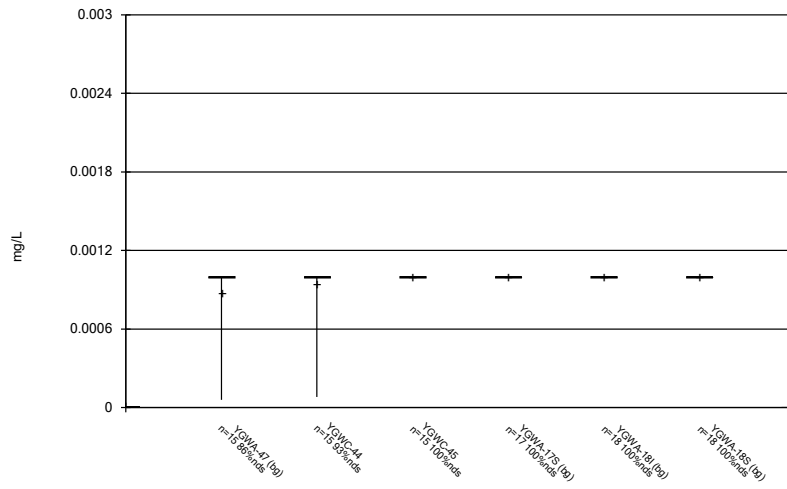
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



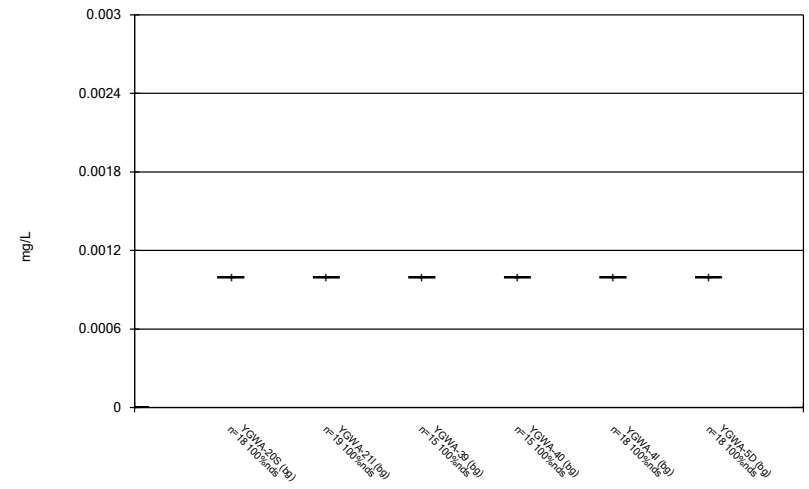
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



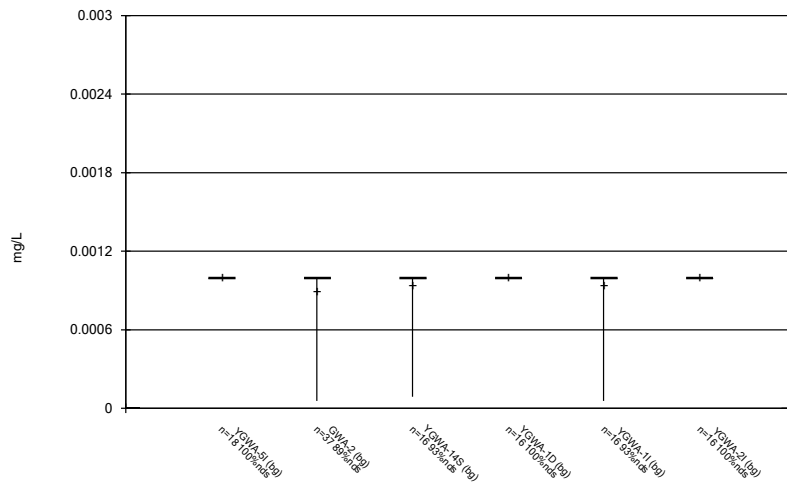
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



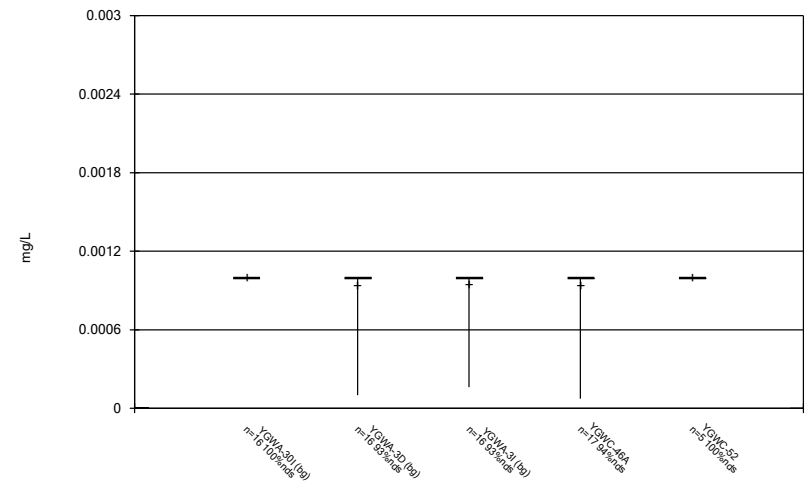
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### Box & Whiskers Plot



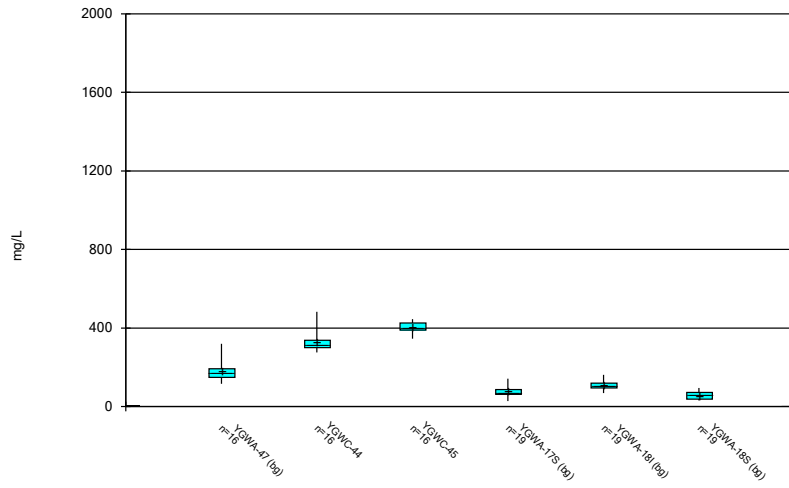
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### Box & Whiskers Plot



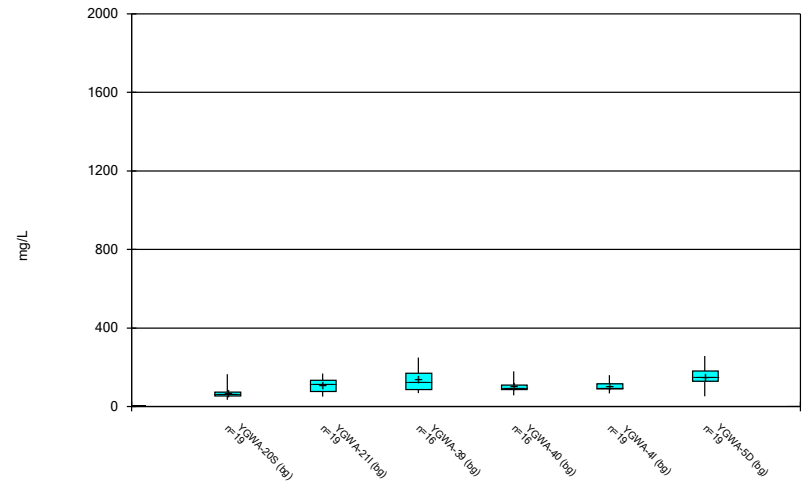
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 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



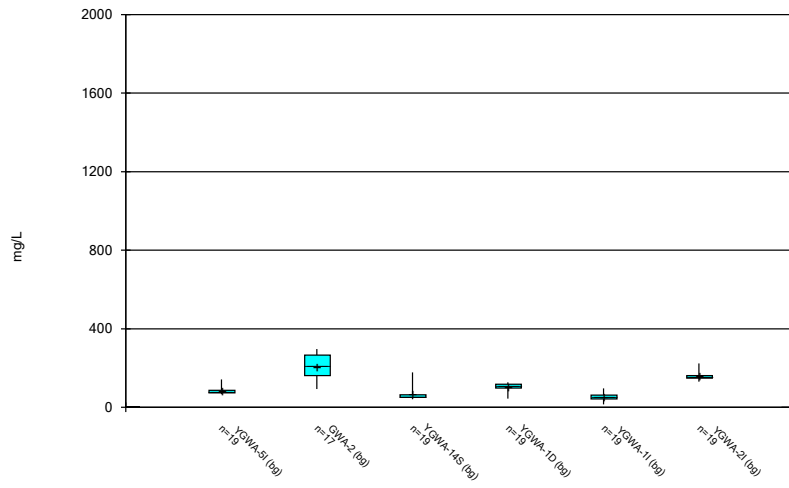
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 4:42 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



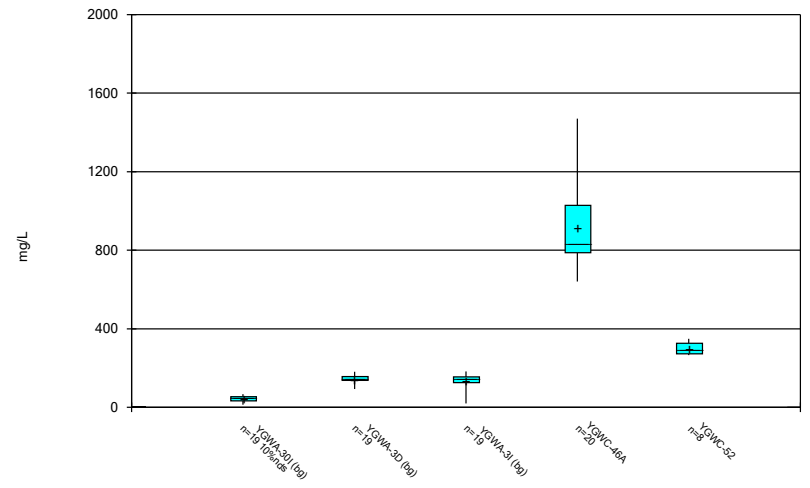
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 4:42 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 4:42 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Box & Whiskers Plot



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 4:42 PM  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

FIGURE C.

# Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/6/2022, 4:46 PM

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	YGWC-45 Cobalt (mg/L)	GWA-2 Cobalt (mg/L)	YGWA-47 pH, Field (S.U.)
4/2/2018			6.3 (O)
4/3/2018	<0.005 (O)		
8/26/2020	0.2 (O)		
9/22/2020	0.16 (O)		
3/2/2021	0.21 (O)		
8/20/2021	0.074 (O)		
2/8/2022	0.072 (O)		
8/30/2022	0.075 (O)		



FIGURE D.

# Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/6/2022, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron, total (mg/L)	YGWC-44	0.16	n/a	8/31/2022	0.54	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Boron, total (mg/L)	YGWC-45	0.16	n/a	8/31/2022	0.33	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Boron, total (mg/L)	YGWC-46A	0.16	n/a	8/31/2022	2.1	Yes	350	n/a	n/a	48.57	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-45	37	n/a	8/31/2022	51.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-46A	37	n/a	8/31/2022	110	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-52	37	n/a	8/31/2022	41.8	Yes	350	n/a	n/a	0.8571	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	YGWC-44	12	n/a	8/31/2022	14.5	Yes	350	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Chloride, Total (mg/L)	YGWC-46A	12	n/a	8/31/2022	29.9	Yes	350	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-45	160	n/a	8/31/2022	177	Yes	350	n/a	n/a	6	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-46A	160	n/a	8/31/2022	459	Yes	350	n/a	n/a	6	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	211.5	n/a	8/31/2022	343	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.00188	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	211.5	n/a	8/31/2022	445	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.00188	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	211.5	n/a	8/31/2022	948	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.00188	Param Inter 1 of 2
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	211.5	n/a	8/31/2022	266	Yes	350	10.07	2.588	0.5714	None	sqrt(x)	0.00188	Param Inter 1 of 2

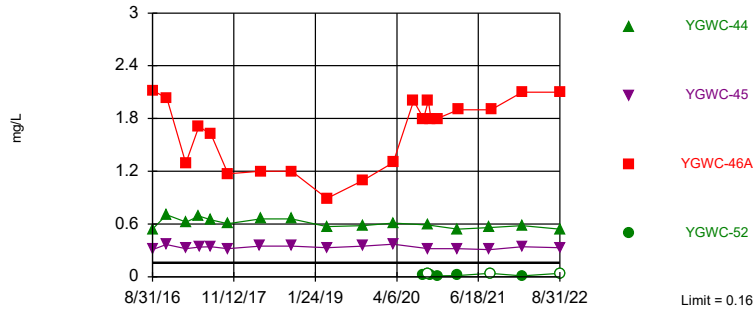
# Appendix III Interwell Prediction Limits - All Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/6/2022, 4:56 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
<b>Boron, total (mg/L)</b>	<b>YGWC-44</b>	<b>0.16</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>0.54</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>YGWC-45</b>	<b>0.16</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>0.33</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Boron, total (mg/L)</b>	<b>YGWC-46A</b>	<b>0.16</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>2.1</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>48.57</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
Boron, total (mg/L)	YGWC-52	0.16	n/a	8/31/2022	0.04ND	No	350	n/a	n/a	48.57	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Calcium, total (mg/L)	YGWC-44	37	n/a	8/31/2022	30.8	No	350	n/a	n/a	0.8571	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
<b>Calcium, total (mg/L)</b>	<b>YGWC-45</b>	<b>37</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>51.8</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0.8571</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>YGWC-46A</b>	<b>37</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>110</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0.8571</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Calcium, total (mg/L)</b>	<b>YGWC-52</b>	<b>37</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>41.8</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0.8571</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Chloride, Total (mg/L)</b>	<b>YGWC-44</b>	<b>12</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>14.5</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	YGWC-45	12	n/a	8/31/2022	5.4	No	350	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
<b>Chloride, Total (mg/L)</b>	<b>YGWC-46A</b>	<b>12</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>29.9</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
Chloride, Total (mg/L)	YGWC-52	12	n/a	8/31/2022	3.4	No	350	n/a	n/a	0	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
Fluoride, total (mg/L)	YGWC-44	0.68	n/a	8/31/2022	0.055J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-45	0.68	n/a	8/31/2022	0.1	No	419	n/a	n/a	65.63	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-46A	0.68	n/a	8/31/2022	0.12	No	419	n/a	n/a	65.63	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
Fluoride, total (mg/L)	YGWC-52	0.68	n/a	8/31/2022	0.059J	No	419	n/a	n/a	65.63	n/a	n/a	0.00004922	NP Inter (NDs) 1 of 2
pH, Field (S.U.)	YGWC-44	8.39	4.4	8/31/2022	5.77	No	429	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-45	8.39	4.4	8/31/2022	6.56	No	429	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-46A	8.39	4.4	8/31/2022	6.87	No	429	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
pH, Field (S.U.)	YGWC-52	8.39	4.4	8/31/2022	5.58	No	429	n/a	n/a	0	n/a	n/a	0.00009844	NP Inter (normality) 1 of 2
Sulfate as SO4 (mg/L)	YGWC-44	160	n/a	8/31/2022	130	No	350	n/a	n/a	6	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-45</b>	<b>160</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>177</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>6</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-46A</b>	<b>160</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>459</b>	<b>Yes</b>	<b>350</b>	<b>n/a</b>	<b>n/a</b>	<b>6</b>	<b>n/a</b>	<b>n/a</b>	<b>0.00004922</b>	<b>NP Inter (normality) 1 of 2</b>
Sulfate as SO4 (mg/L)	YGWC-52	160	n/a	8/31/2022	122	No	350	n/a	n/a	6	n/a	n/a	0.00004922	NP Inter (normality) 1 of 2
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-44</b>	<b>211.5</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>343</b>	<b>Yes</b>	<b>350</b>	<b>10.07</b>	<b>2.588</b>	<b>0.5714</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.00188</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-45</b>	<b>211.5</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>445</b>	<b>Yes</b>	<b>350</b>	<b>10.07</b>	<b>2.588</b>	<b>0.5714</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.00188</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-46A</b>	<b>211.5</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>948</b>	<b>Yes</b>	<b>350</b>	<b>10.07</b>	<b>2.588</b>	<b>0.5714</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.00188</b>	<b>Param Inter 1 of 2</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWC-52</b>	<b>211.5</b>	<b>n/a</b>	<b>8/31/2022</b>	<b>266</b>	<b>Yes</b>	<b>350</b>	<b>10.07</b>	<b>2.588</b>	<b>0.5714</b>	<b>None</b>	<b>sqrt(x)</b>	<b>0.00188</b>	<b>Param Inter 1 of 2</b>

Exceeds Limit: YGWC-44, YGWC-45,  
YGWC-46A

Prediction Limit  
Interwell Non-parametric

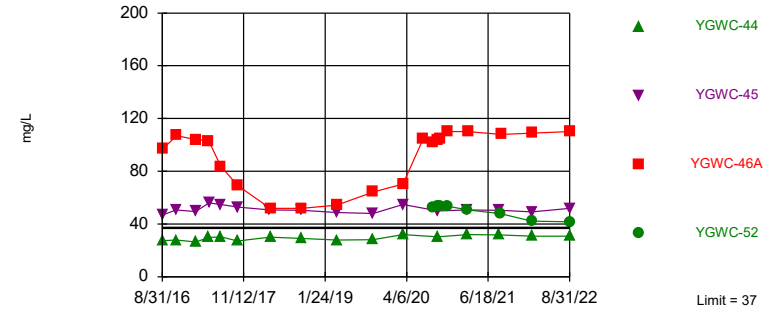


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 48.57% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Boron, total Analysis Run 10/6/2022 4:54 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Exceeds Limit: YGWC-45, YGWC-46A,  
YGWC-52

Prediction Limit  
Interwell Non-parametric

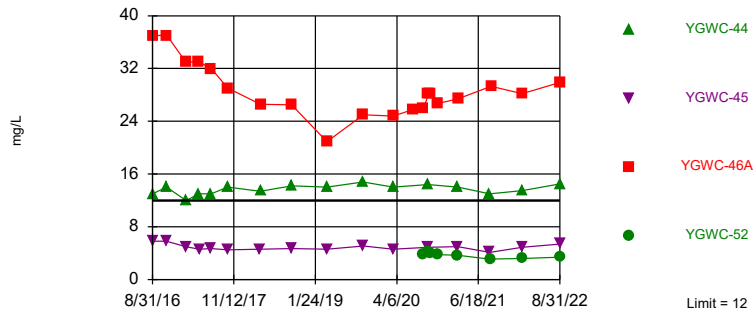


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 0.8571% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Calcium, total Analysis Run 10/6/2022 4:54 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Exceeds Limit: YGWC-44, YGWC-46A

Prediction Limit  
Interwell Non-parametric

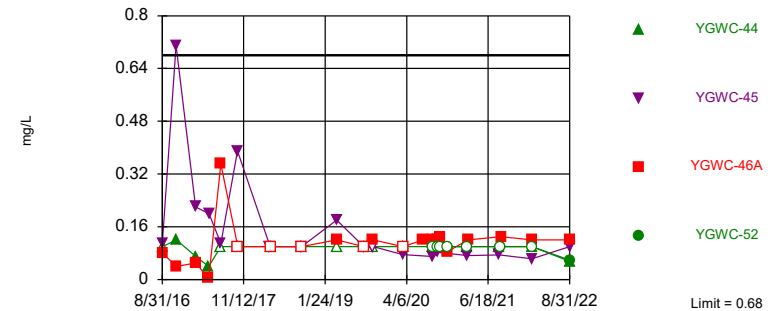


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Chloride, Total Analysis Run 10/6/2022 4:54 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Within Limit

Prediction Limit  
Interwell Non-parametric

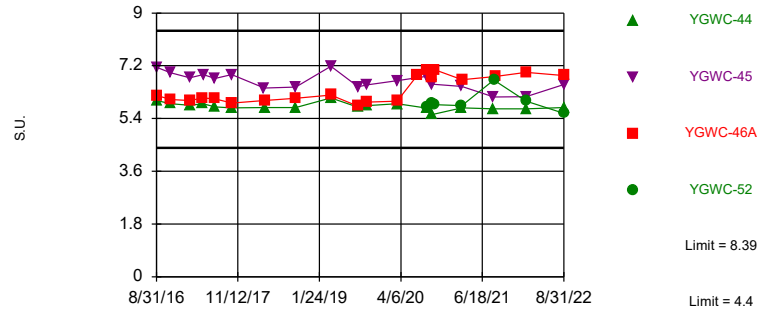


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 419 background values. 65.63% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Fluoride, total Analysis Run 10/6/2022 4:54 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Within Limits

Prediction Limit  
Interwell Non-parametric

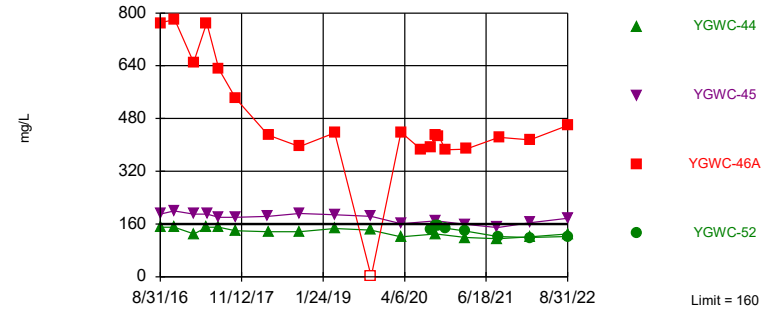


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 429 background values. Annual per-constituent alpha = 0.0007874. Individual comparison alpha = 0.00009844 (1 of 2). Comparing 4 points to limit.

Constituent: pH, Field Analysis Run 10/6/2022 4:54 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Hollow symbols indicate censored values.  
Exceeds Limit: YGWC-45, YGWC-46A

Prediction Limit  
Interwell Non-parametric

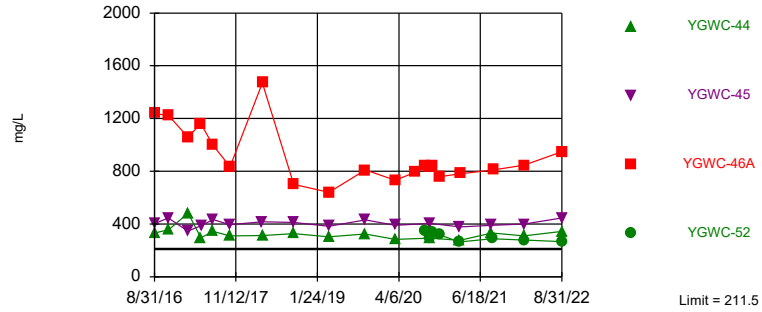


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 350 background values. 6% NDs. Annual per-constituent alpha = 0.0003937. Individual comparison alpha = 0.00004922 (1 of 2). Comparing 4 points to limit.

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 4:55 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Exceeds Limit: YGWC-44, YGWC-45,  
YGWC-46A, YGWC-52

Prediction Limit  
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.07, Std. Dev.=2.588, n=350, 0.5714% NDs. Normality test was disabled. Kappa = 1.728 (c=7, w=4, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.00188. Comparing 4 points to limit.

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 4:55 PM View: Appendix III - Parametri  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (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									
7/25/2016		<0.04	<0.04					<0.04	
7/26/2016	0.0055 (J)			<0.04	0.0052 (J)	0.0047 (J)	0.0177 (J)		0.0097 (J)
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	<0.04	<0.04							
9/14/2016			<0.04	0.01 (J)	0.0071 (J)	<0.04			
9/15/2016							0.0214 (J)		0.0102 (J)
9/16/2016									
9/19/2016								<0.04	
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					
11/14/2016									
11/15/2016									
11/16/2016									
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	
2/21/2017								<0.04	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			<0.04						
3/2/2017	0.008 (J)	<0.04							0.0084 (J)
3/3/2017									
3/6/2017						<0.04			
3/7/2017				<0.04	0.0089 (J)				
3/8/2017							0.0189 (J)		
4/26/2017			<0.04				0.0161 (J)	<0.04	<0.04
4/27/2017	0.0066 (J)	<0.04							
4/28/2017									
5/1/2017					0.0061 (J)	<0.04			
5/2/2017				<0.04					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	0.0087 (J)	0.006 (J)		<0.04	0.0079 (J)				
6/28/2017			<0.04						<0.04
6/29/2017						<0.04			

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/30/2017							0.0173 (J)	<0.04	
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	0.0072 (J)	0.0071 (J)		<0.04	0.0094 (J)				
10/4/2017			<0.04					<0.04	<0.04
10/5/2017						<0.04	0.0173 (J)		
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									
4/4/2018									
6/5/2018	0.0052 (J)								
6/6/2018		<0.04			0.0098 (J)				
6/7/2018				<0.04		0.0045 (J)			0.004 (J)
6/8/2018			<0.04				0.013 (J)		
6/11/2018								0.014 (J)	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				0.0057 (J)	0.01 (J)	0.005 (J)			
10/1/2018	0.021 (J)	0.0049 (J)	<0.04				0.015 (J)		<0.04
10/2/2018								<0.04	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	0.005 (J)	<0.04							
3/29/2019							0.014 (J)		
4/1/2019			<0.04					<0.04	<0.04
4/2/2019									
4/3/2019				0.0044 (J)	0.0076 (J)	0.0055 (J)			
6/12/2019									
9/24/2019	0.0064 (J)	0.0055 (J)		0.0049 (J)	0.01 (J)				
9/25/2019			<0.04			<0.04	0.018 (J)	<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)
3/24/2020				0.0068 (J)	0.011 (J)				
3/25/2020						0.011 (J)			



# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				0.0053 (J)	0.0079 (J)	<0.04			
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)		
10/7/2020									
11/12/2020									
3/1/2021								<0.04	
3/2/2021				0.011 (J)	0.0068 (J)		0.017 (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	0.009 (J)	<0.04			
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				<0.04	0.011 (J)		0.02 (J)		
2/11/2022						<0.04		<0.04	
8/30/2022	<0.04			<0.04	0.0098 (J)				
8/31/2022		<0.04	<0.04			<0.04	0.015 (J)	<0.04	<0.04

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04		0.008 (J)	<0.04				
7/28/2016			<0.04						
8/30/2016						0.0166 (J)			
8/31/2016							0.308	0.541	0.0315 (J)
9/1/2016									
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				
11/1/2016									
11/2/2016					<0.04				
11/3/2016	0.0082 (J)	<0.04	<0.04	0.0077 (J)					
11/4/2016									
11/14/2016						0.0166 (J)	0.368		
11/15/2016								0.706	
11/16/2016									
11/28/2016									0.0095 (J)
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									
2/21/2017									
2/22/2017									<0.04
2/24/2017						0.0145 (J)			
2/27/2017							0.321		
2/28/2017								0.623	
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					
5/8/2017						0.0141 (J)		0.69	0.0084 (J)
5/9/2017							0.338		
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			<0.04	0.0074 (J)	<0.04				



# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						0.0076 (J)		0.59	0.0079 (J)
9/23/2020	0.006 (J)	0.021 (J)		0.0066 (J)			0.32		
9/24/2020			0.013 (J)		0.0094 (J)				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						0.013 (J)	0.32	0.54	
3/2/2021									<0.04
3/3/2021	0.0094 (J)	<0.04		0.01 (J)	<0.04				
3/4/2021			0.0079 (J)						
8/19/2021						0.011 (J)	0.31	0.56	
8/20/2021									<0.04
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						0.015 (J)			<0.04
2/9/2022	<0.04	<0.04	<0.04	0.0098 (J)	<0.04		0.34	0.58	
2/10/2022									
2/11/2022									
8/30/2022	0.014 (J)	<0.04	0.012 (J)	0.013 (J)					<0.04
8/31/2022					<0.04	0.0091 (J)	0.33	0.54	

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	2.12				
9/13/2016					
9/14/2016		<0.04			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		<0.04			
11/14/2016					
11/15/2016					
11/16/2016	2.03				
11/28/2016					
12/15/2016		0.0107 (J)			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		<0.04			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	1.29				
2/28/2017					
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					
5/8/2017	1.71				
5/9/2017					
5/26/2017		<0.04			
6/27/2017					
6/28/2017		<0.04			
6/29/2017					

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	1.62				
7/17/2017					
10/3/2017		<0.04			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	1.17		0.0135 (J)		
10/12/2017				0.0401	
10/16/2017					
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		
4/2/2018					
4/3/2018			0.033 (J)	0.12	
4/4/2018	1.2				
6/5/2018					
6/6/2018					
6/7/2018		<0.04			
6/8/2018					
6/11/2018					
6/28/2018			0.053	0.16	
8/6/2018					
8/7/2018			0.024 (J)	0.12	
9/19/2018	1.2				
9/24/2018			0.028 (J)	0.099	
9/25/2018					
9/26/2018					
10/1/2018		<0.04			
10/2/2018					
2/25/2019					
3/26/2019				0.096	
3/27/2019	0.89		0.017 (J)		
3/28/2019					
3/29/2019		0.0065 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		0.0076 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	1.1		0.017 (J)	0.079	
3/17/2020	1.3				
3/18/2020					
3/19/2020		0.0073 (J)			
3/24/2020				0.088 (J)	
3/25/2020			0.043 (J)		

# Prediction Limit

Constituent: Boron, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	2				
8/27/2020					0.014 (J)
8/28/2020	1.8				
9/22/2020					<0.04
9/23/2020	2	<0.04			
9/24/2020			0.037 (J)	0.087 (J)	
9/25/2020					
10/7/2020	1.8				0.018 (J)
11/12/2020	1.8				0.012 (J)
3/1/2021					0.015 (J)
3/2/2021	1.9				
3/3/2021		<0.04			
3/4/2021			0.033 (J)	0.078	
8/19/2021					
8/20/2021					<0.04
8/26/2021			0.095		
8/27/2021	1.9	<0.04			
9/1/2021					
9/3/2021				0.077	
2/8/2022			0.13	0.074	
2/9/2022	2.1	<0.04			0.0089 (J)
2/10/2022					
2/11/2022					
8/30/2022		<0.04			
8/31/2022	2.1		0.14	0.062	<0.04

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	12	2.5	21						
6/2/2016				2.4	33	8.8	1.3	1.3	28
6/6/2016									
6/7/2016									
7/25/2016		2.16	20.3					1.17	
7/26/2016	11			2.12	32.3	7.69	1.24		24.5
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	11.8	2.21							
9/14/2016			19.7	2.18	31	8.49			
9/15/2016							1.17		27
9/16/2016									
9/19/2016								1.05	
11/1/2016	11		18.4					1.14	25.6
11/2/2016					30.9	7.83	1.23		
11/3/2016									
11/4/2016		2.67		2.17 (J)					
11/14/2016									
11/15/2016									
11/16/2016									
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	
2/21/2017								1.25	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			18.6						
3/2/2017	11	2.57							27.5
3/3/2017									
3/6/2017						8.64			
3/7/2017				2.34	32.7				
3/8/2017							1.21		
4/26/2017			25.6				1.14	1.03	30.4
4/27/2017	11.1	2.38							
4/28/2017									
5/1/2017					37	13.4			
5/2/2017				2.17					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	13.8	2.36		2.13	36.5				
6/28/2017			23.9						29.8
6/29/2017						8.81			



# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/30/2017							1.24	1.13	
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	14	2.21		2.15	30.9				
10/4/2017			22.1					1.09	29.7
10/5/2017						9.29	1.11		
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									
4/4/2018									
6/5/2018	15.2 (J)								
6/6/2018		2.3			26.2				
6/7/2018				2.3		8.2			29.1
6/8/2018			21.9 (J)				1.1		
6/11/2018								1.1	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				2.3	25.8	9.5 (J)			
10/1/2018	15.1	1.8	19.7				0.99		26.9
10/2/2018								1.1	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	13.3 (J)	2.2							
3/29/2019							1.1		
4/1/2019			20.4 (J)					1.3	30.1
4/2/2019									
4/3/2019				2.8	24.7 (J)	8.4			
6/12/2019									
9/24/2019	15.8	2.3		2.5	25.8				
9/25/2019			22.4			9.5	1.1	1.1	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
3/24/2020				2.5	26.1				
3/25/2020						10.5			

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				2.6	27.2	9.6			
9/23/2020	14.1	1.8	23.6						28.6
9/24/2020								1.1	
9/25/2020							1.3		
10/7/2020									
11/12/2020									
3/1/2021								1.2	
3/2/2021				2.6	1.6		1.2		
3/3/2021	14.1	1.8	20.6			7.7			29.8
3/4/2021									
8/19/2021	14.2	2					1.2	1.2	28.1
8/20/2021									
8/26/2021				2.5	25.2	7.6			
8/27/2021			24.7						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	14.9	2.1	23.7						30.3
2/10/2022				2.5	24.8		1.3		
2/11/2022						7.5		1.5	
8/30/2022	14.9			2.5	24.8				
8/31/2022		1.9	23.5			8.9	1.3	1.3	28.7

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			3.7	2.2	2.3				
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73		2	2.08				
7/28/2016			3.15						
8/30/2016						20.9			
8/31/2016							46.7	27.3	9.31
9/1/2016									
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				
11/1/2016									
11/2/2016					2.13				
11/3/2016	1.31	5.25	3.4	1.99					
11/4/2016									
11/14/2016						18.6	50.6		
11/15/2016								27.8	
11/16/2016									
11/28/2016									9.47 (B)
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									
2/21/2017									
2/22/2017									10.4
2/24/2017						16.1			
2/27/2017							49.4		
2/28/2017								26.4	
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					
5/8/2017						14.6		29.9	14.2
5/9/2017							56		
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							
6/29/2017			6.04	2.02	2.54				



# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						10.1		30.4	31
9/23/2020	0.91 (J)	5.2		2.6			50		
9/24/2020			7.8		2.6				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						10.3	50.7	31.9	
3/2/2021									34.2
3/3/2021	0.96 (J)	5.2		2.5	2.4				
3/4/2021			8.7						
8/19/2021						9.6	50.4	31.7	
8/20/2021									26.5
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						9.4			25.6
2/9/2022	0.87 (J)	5.1	9.8	2.8	2.3		49.3	30.8	
2/10/2022									
2/11/2022									
8/30/2022	0.77 (J)	5.7	7.3	3					23.5
8/31/2022					2.4	9.6	51.8	30.8	

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	96.8				
9/13/2016					
9/14/2016		23.5			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		23.7			
11/14/2016					
11/15/2016					
11/16/2016	107				
11/28/2016					
12/15/2016		23.1			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		23.3			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	104				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		25.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		30.7			
5/1/2017					
5/2/2017					
5/8/2017	103				
5/9/2017					
5/26/2017		26.2			
6/27/2017					
6/28/2017		26.1			
6/29/2017					

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	83.7				
7/17/2017					
10/3/2017		26.7			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	69		2.74		
10/12/2017				2.9	
10/16/2017					
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		
4/2/2018					
4/3/2018			1.4	6.3	
4/4/2018	51.9				
6/5/2018					
6/6/2018					
6/7/2018		25			
6/8/2018					
6/11/2018					
6/28/2018			1.4	6.7	
8/6/2018					
8/7/2018			1.2	6.3	
9/19/2018	51.9				
9/24/2018			1.1	5.7	
9/25/2018					
9/26/2018					
10/1/2018		25			
10/2/2018					
2/25/2019					
3/26/2019				5.6	
3/27/2019	54.2		1.5		
3/28/2019					
3/29/2019		23.5 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		26.4			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	64.2		2.4	4.9	
3/17/2020	70.4				
3/18/2020					
3/19/2020		27.4			
3/24/2020				4.8	
3/25/2020			2.7		

# Prediction Limit

Constituent: Calcium, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	105				
8/27/2020					52.3
8/28/2020	102				
9/22/2020					53.5
9/23/2020	104	26.3			
9/24/2020			3.7	4.4	
9/25/2020					
10/7/2020	105				53.8
11/12/2020	110				53.6
3/1/2021					50.6
3/2/2021	110				
3/3/2021		25.6			
3/4/2021			8.2	4.6	
8/19/2021					
8/20/2021					47.9
8/26/2021			14.1		
8/27/2021	108	22.6			
9/1/2021					
9/3/2021				5.6	
2/8/2022			15.2	6	
2/9/2022	109	23.4			42.2
2/10/2022					
2/11/2022					
8/30/2022		25.4			
8/31/2022	110		16.3	6.2	41.8



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	1.3	1.6	1.3						
6/2/2016				4.3	7.2	3.7	4.1	1.9	1.4
6/6/2016									
6/7/2016									
7/25/2016		1.4	1.3					1.7	
7/26/2016	1.2			4.4	6.6	3.6	4		1.6
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	1.1	1.3							
9/14/2016			1.3	3.8	6.6	3.4			
9/15/2016							4.2		1.5
9/16/2016									
9/19/2016								1.6	
11/1/2016	1.3		1.4					1.8	1.7
11/2/2016					7.6	4.5	4.9		
11/3/2016									
11/4/2016		1.6		4.8					
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							4.1		
1/11/2017	1.1		1.1						1.2
1/12/2017				3.8	6.8				
1/13/2017						4.2			
1/16/2017		1.4						1.7	
2/21/2017								1.7	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			1.1						
3/2/2017	1	1.3							1.2
3/3/2017									
3/6/2017						3.6			
3/7/2017				4.5	6.8				
3/8/2017							4.2		
4/26/2017			1.1				4.1	1.7	1.2
4/27/2017	1	1.3							
4/28/2017									
5/1/2017					7.2	4.3			
5/2/2017				4.6					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	1.1	1.4		4.3	7				
6/28/2017			1.2						1.3
6/29/2017						4.2			

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/30/2017							3.7	1.8	
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	1.1	1.7		4.2	6.5				
10/4/2017			1.2					1.8	1.5
10/5/2017						4.7	3.8		
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									
4/4/2018									
6/5/2018	1.1								
6/6/2018		1.4			4.7				
6/7/2018				4.5		4.4			1.2
6/8/2018			1.2				3.4		
6/11/2018								2	
6/28/2018									
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	1.1	1.4	1.2				3.8		1.5
10/2/2018								1.8	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	1.4	1.5							
3/29/2019							4.2		
4/1/2019			1.1					1.7	1.2
4/2/2019									
4/3/2019				4.2	4	4.3			
6/12/2019									
9/24/2019	1.1	1.3		4.5	3.7				
9/25/2019			1.1			4.5	4.8	1.6	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
3/24/2020				4.3	3.5				
3/25/2020						3.9			

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				4.2	3.6	4.5			
9/23/2020	0.99 (J)	1.2	1						1.1
9/24/2020								1.5	
9/25/2020							5.3		
10/7/2020									
11/12/2020									
3/1/2021								1.6	
3/2/2021				4.3	3.2		4.9		
3/3/2021	0.96 (J)	1.2	0.99 (J)			4.1			1.1
3/4/2021									
8/19/2021	1.1	1.3					5	1.6	1.1
8/20/2021									
8/26/2021				4.3	3.4	4.4			
8/27/2021			1.1						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1	1.3	1.1						1.1
2/10/2022				4.4	3.2		4.7		
2/11/2022						4.1		2.1	
8/30/2022	1.3			4.4	3.5				
8/31/2022		1.5	1.3			4.4	4.6	1.8	1.3

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			2.8	4.5	1.9				
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7		4.5	1.9				
7/28/2016			2.6						
8/30/2016						5.2			
8/31/2016							5.8	13	4
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1			4.5					
9/19/2016		7	2.4		1.9				
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.4	7.5	2.9	5.4					
11/4/2016									
11/14/2016						6.4	5.8		
11/15/2016								14	
11/16/2016									
11/28/2016									4.2
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									
2/21/2017									
2/22/2017									3.7
2/24/2017						5.5			
2/27/2017							5		
2/28/2017								12	
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					
5/8/2017						5.8		13	4.2
5/9/2017							4.6		
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			2.8	4.5	2.6				



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						4.2		14.4	4.2
9/23/2020	7.2	7.2		6.6			4.9		
9/24/2020			2		2.7				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						3.7	5	14	
3/2/2021									4.1
3/3/2021	7.2	7		7.1	2.7				
3/4/2021			1.8						
8/19/2021						3.5	4.1	13	
8/20/2021									5.2
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						3.2			5.7
2/9/2022	7	7.5	1.7	10.9	2.8		4.9	13.5	
2/10/2022									
2/11/2022									
8/30/2022	7	7.9	2.4	12					6.3
8/31/2022					2.9	3.5	5.4	14.5	

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	37				
9/13/2016					
9/14/2016		1.1			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		1.4			
11/14/2016					
11/15/2016					
11/16/2016	37				
11/28/2016					
12/15/2016		2.9			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		0.98			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	33				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		1.1			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		0.91			
5/1/2017					
5/2/2017					
5/8/2017	33				
5/9/2017					
5/26/2017		0.93			
6/27/2017					
6/28/2017		1			
6/29/2017					

# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	32				
7/17/2017					
10/3/2017		1.2			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	29		2.4		
10/12/2017				3.8	
10/16/2017					
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		
4/2/2018					
4/3/2018			3.3	5.9	
4/4/2018	26.6				
6/5/2018					
6/6/2018					
6/7/2018		1			
6/8/2018					
6/11/2018					
6/28/2018			2.1	5	
8/6/2018					
8/7/2018			1.2	4.3	
9/19/2018	26.5				
9/24/2018			1.3	4.9	
9/25/2018					
9/26/2018					
10/1/2018		1.1			
10/2/2018					
2/25/2019					
3/26/2019				4.4	
3/27/2019	20.9		1.4		
3/28/2019					
3/29/2019		1.2			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		0.95 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	25		2.1	5.1	
3/17/2020	24.8				
3/18/2020					
3/19/2020		0.97 (J)			
3/24/2020				4.7	
3/25/2020			1.9		



# Prediction Limit

Constituent: Chloride, Total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	25.8				
8/27/2020					3.9
8/28/2020	25.9				
9/22/2020					4.1
9/23/2020	28.1	0.88 (J)			
9/24/2020			2.7	5	
9/25/2020					
10/7/2020	28.2				4
11/12/2020	26.7				3.8
3/1/2021					3.7
3/2/2021	27.4				
3/3/2021		0.86 (J)			
3/4/2021			4.9	4.9	
8/19/2021					
8/20/2021					3.1
8/26/2021			7.2		
8/27/2021	29.3	0.99 (J)			
9/1/2021					
9/3/2021				5.5	
2/8/2022			7.4	6.2	
2/9/2022	28.2	1 (J)			3.2
2/10/2022					
2/11/2022					
8/30/2022		1.2			
8/31/2022	29.9		6.7	6.3	3.4

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	0.12 (J)	<0.1	0.15 (J)						
6/2/2016				<0.1	0.11 (J)	<0.1	<0.1	<0.1	0.62
6/6/2016									
6/7/2016									
7/25/2016		0.06 (J)	0.14 (J)					0.06 (J)	
7/26/2016	0.08 (J)			<0.1	0.05 (J)	<0.1	0.02 (J)		0.49
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	0.11 (J)	<0.1							
9/14/2016			0.18 (J)	<0.1	0.04 (J)	<0.1			
9/15/2016							<0.1		0.54
9/16/2016									
9/19/2016								<0.1	
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					
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017							<0.1		
1/11/2017	0.05 (J)		0.09 (J)						0.49
1/12/2017				<0.1	0.04 (J)				
1/13/2017						<0.1			
1/16/2017		<0.1						<0.1	
2/21/2017								<0.1	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			<0.1						
3/2/2017	<0.1	<0.1							0.48
3/3/2017									
3/6/2017						<0.1			
3/7/2017				<0.1	<0.1				
3/8/2017							<0.1		
4/26/2017			0.08 (J)				<0.1	<0.1	0.48
4/27/2017	0.04 (J)	0.01 (J)							
4/28/2017									
5/1/2017					<0.1	<0.1			
5/2/2017				<0.1					
5/8/2017									
5/9/2017									
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			



# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
8/21/2019									
9/24/2019	0.063 (J)	<0.1		<0.1	0.05 (J)				
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	0.061 (J)	<0.1							
2/11/2020			0.094 (J)						
2/12/2020				<0.1	<0.1	<0.1	<0.1	<0.1	0.4
3/17/2020									
3/18/2020		<0.1					<0.1		
3/19/2020	0.064 (J)		0.11 (J)					<0.1	0.51
3/24/2020				<0.1	<0.1				
3/25/2020						<0.1			
7/6/2020									
8/26/2020									
8/27/2020									
8/28/2020									
9/22/2020				<0.1	0.056 (J)	<0.1			
9/23/2020	0.058 (J)	<0.1	0.098 (J)						0.47
9/24/2020								<0.1	
9/25/2020							<0.1		
10/7/2020									
11/12/2020									
2/8/2021				<0.1	0.055 (J)				
2/9/2021						<0.1			
2/10/2021			<0.1				<0.1		0.43
2/11/2021								<0.1	
2/12/2021	0.068 (J)	<0.1						<0.1	
3/1/2021									
3/2/2021				<0.1	<0.1		<0.1		
3/3/2021	0.078 (J)	<0.1	0.1			<0.1			0.44
3/4/2021									
8/19/2021	0.074 (J)	<0.1					<0.1	<0.1	0.47
8/20/2021									
8/26/2021				<0.1	0.061 (J)	<0.1			
8/27/2021			0.12						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	0.057 (J)	<0.1	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)			<0.1	0.085 (J)				
8/31/2022		0.065 (J)	0.13			0.061 (J)	0.053 (J)	0.06 (J)	0.42

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-45	YGWC-44
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1		<0.1	<0.1				
7/28/2016			0.02 (J)						
8/30/2016						0.09 (J)			
8/31/2016							0.14 (J)	0.11 (J)	<0.1
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	<0.1			<0.1					
9/19/2016		<0.1	0.02 (J)		<0.1				
11/1/2016									
11/2/2016					<0.1				
11/3/2016	<0.1	<0.1	<0.1	<0.1					
11/4/2016									
11/14/2016						0.18 (J)		0.71	
11/15/2016									0.12 (J)
11/16/2016									
11/28/2016							0.12 (J)		
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									
2/21/2017									
2/22/2017							0.09 (J)		
2/24/2017						0.05 (J)			
2/27/2017								0.22 (J)	
2/28/2017									0.07 (J)
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	0.04 (J)		<0.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				<0.1					
5/8/2017						0.03 (J)	0.05 (J)		0.04 (J)
5/9/2017								0.2 (J)	
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1	<0.1				

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-45	YGWC-44
6/30/2017									
7/11/2017						0.07 (J)			
7/13/2017								0.11 (J)	<0.1
7/17/2017							0.14 (J)		
10/3/2017			<0.1						
10/4/2017	<0.1			<0.1	<0.1				
10/5/2017		<0.1							
10/10/2017						<0.1		0.39	<0.1
10/11/2017									
10/12/2017									
10/16/2017							0.12 (J)		
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018							0.17		
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1		<0.1					
3/29/2018			<0.1		<0.1				
4/2/2018						<0.1			
4/3/2018								<0.1	
4/4/2018									<0.1
6/5/2018			0.13 (J)						
6/6/2018					<0.1				
6/7/2018		<0.1							
6/8/2018									
6/11/2018	<0.1			<0.1					
6/28/2018									
8/6/2018							0.087 (J)		
8/7/2018									
9/19/2018						<0.1		<0.1	<0.1
9/24/2018									
9/25/2018	<0.1	<0.1	0 (J)	<0.1	<0.1				
9/26/2018									
10/1/2018									
10/2/2018									
2/25/2019							0.14 (J)		
2/26/2019									
2/27/2019									
3/4/2019									
3/5/2019	<0.1		0.32	<0.1	<0.1				
3/6/2019		<0.1							
3/26/2019									
3/27/2019						0.081 (J)		0.18 (J)	<0.1
3/28/2019									
3/29/2019									
4/1/2019									
4/2/2019			0.12 (J)	<0.1					
4/3/2019	<0.1	<0.1			<0.1				
6/12/2019							0.12 (J)		
8/19/2019							<0.1		
8/20/2019						<0.1		<0.1	<0.1

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	GWA-2 (bg)	YGWC-45	YGWC-44
8/21/2019									
9/24/2019			0.15 (J)						
9/25/2019				<0.1	<0.1				
9/26/2019	<0.1	<0.1							
10/8/2019						0.034 (J)	0.052 (J)		<0.1
10/9/2019								<0.1	
2/10/2020									
2/11/2020	<0.1	<0.1		<0.1					
2/12/2020			0.1 (J)		<0.1				
3/17/2020						<0.1	0.053 (J)	0.076 (J)	<0.1
3/18/2020									
3/19/2020									
3/24/2020	<0.1	<0.1	0.081 (J)	<0.1	<0.1				
3/25/2020									
7/6/2020									
8/26/2020							0.068 (J)		
8/27/2020						<0.1			<0.1
8/28/2020								0.07 (J)	
9/22/2020						<0.1	0.058 (J)		<0.1
9/23/2020	<0.1	<0.1		<0.1				0.082 (J)	
9/24/2020			0.079 (J)		<0.1				
9/25/2020									
10/7/2020									
11/12/2020									
2/8/2021									
2/9/2021	<0.1	<0.1	0.092 (J)		<0.1				
2/10/2021									
2/11/2021									
2/12/2021									
3/1/2021						<0.1		0.073 (J)	<0.1
3/2/2021							0.073 (J)		
3/3/2021	<0.1	<0.1		<0.1	<0.1				
3/4/2021			0.091 (J)						
8/19/2021						<0.1		0.075 (J)	<0.1
8/20/2021							0.06 (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						<0.1	0.064 (J)		
2/9/2022	<0.1	<0.1	0.1	<0.1	<0.1			0.063 (J)	<0.1
2/10/2022									
2/11/2022									
8/30/2022	<0.1	<0.1	0.1	<0.1			0.086 (J)		
8/31/2022					<0.1	0.065 (J)		0.1	0.055 (J)

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	0.08 (J)				
9/13/2016					
9/14/2016		0.08 (J)			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		<0.1			
11/14/2016					
11/15/2016					
11/16/2016	0.04 (J)				
11/28/2016					
12/15/2016		0.06 (J)			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		0.1 (J)			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	0.05 (J)				
2/28/2017					
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					
5/8/2017	0.004 (J)				
5/9/2017					
5/26/2017		0.09 (J)			
6/27/2017					
6/28/2017		0.11 (J)			
6/29/2017					



# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	0.35				
7/17/2017					
10/3/2017		<0.1			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	<0.1		<0.1		
10/12/2017				<0.1	
10/16/2017					
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		
3/27/2018					
3/28/2018		0.31			
3/29/2018					
4/2/2018					
4/3/2018			<0.1	<0.1	
4/4/2018	<0.1				
6/5/2018					
6/6/2018					
6/7/2018		0.11 (J)			
6/8/2018					
6/11/2018					
6/28/2018			<0.1	<0.1	
8/6/2018					
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					
2/25/2019					
2/26/2019					
2/27/2019		0.12 (J)			
3/4/2019					
3/5/2019					
3/6/2019					
3/26/2019				<0.1	
3/27/2019	0.12 (J)		<0.1		
3/28/2019					
3/29/2019		0.13 (J)			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
8/19/2019					
8/20/2019					

# Prediction Limit

Constituent: Fluoride, total (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
8/21/2019	<0.1		<0.1	<0.1	
9/24/2019		0.081 (J)			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	0.12 (J)		<0.1	<0.1	
2/10/2020					
2/11/2020		0.075 (J)			
2/12/2020			<0.1	<0.1	
3/17/2020	<0.1				
3/18/2020					
3/19/2020		0.093 (J)			
3/24/2020				<0.1	
3/25/2020			<0.1		
7/6/2020	0.12				
8/26/2020					
8/27/2020					<0.1
8/28/2020	0.12				
9/22/2020					<0.1
9/23/2020	0.12	0.08 (J)			
9/24/2020			<0.1	<0.1	
9/25/2020					
10/7/2020	0.13				<0.1
11/12/2020	0.084 (J)				<0.1
2/8/2021					
2/9/2021					
2/10/2021		0.094 (J)	<0.1	<0.1	
2/11/2021					
2/12/2021					
3/1/2021					<0.1
3/2/2021	0.12				
3/3/2021		0.085 (J)			
3/4/2021			<0.1	<0.1	
8/19/2021					
8/20/2021					<0.1
8/26/2021			0.063 (J)		
8/27/2021	0.13	0.12			
9/1/2021					
9/3/2021				<0.1	
2/8/2022			0.052 (J)	<0.1	
2/9/2022	0.12	0.094 (J)			<0.1
2/10/2022					
2/11/2022					
8/30/2022		0.12			
8/31/2022	0.12		0.065 (J)	0.05 (J)	0.059 (J)

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-14S (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64								
6/1/2016		7.46	7.72	6.33					
6/2/2016					5.75	7.84	6.36	7.67	5.46
6/6/2016									
6/7/2016									
7/25/2016			7.74	6.21					
7/26/2016		7.43			5.72	7.88	6.22	7.66	5.45
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016		7.44		6.16					
9/14/2016			7.65		5.74		6.23	7.6	
9/15/2016						7.74			5.45
9/16/2016									
9/19/2016									
11/1/2016		7.24	7.7			7.75			
11/2/2016							6.08	7.35	5.41
11/3/2016									
11/4/2016				6.29	5.61				
11/14/2016									
11/15/2016									
11/16/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017									5.37
1/11/2017		7.3	7.53			7.66			
1/12/2017					5.71			7.49	
1/13/2017							6.19		
1/16/2017				6.29					
2/21/2017									
2/22/2017	6.21								
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			7.42						
3/2/2017		7.23		6.28		7.68			
3/3/2017									
3/6/2017							6.2		

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-14S (bg)
3/7/2017					5.66			7.43	
3/8/2017									5.41
4/26/2017			7.4			7.45			5.02
4/27/2017		6.99		6.09					
4/28/2017									
5/1/2017							6.21	7.22	
5/2/2017					5.65				
5/8/2017	6.12								
5/9/2017									
5/26/2017									
6/27/2017		6.87		6.21	5.7			7.32	
6/28/2017			7.5			7.65			
6/29/2017							6.21		
6/30/2017									5.39
7/11/2017									
7/13/2017									
7/17/2017	6.03								
10/3/2017		6.81		5.98	5.79			7.48	
10/4/2017			7.45			7.49			
10/5/2017							6.16		5.49
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017	6.12								
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018	6.13								
2/20/2018									
3/27/2018				6.25					5.47
3/28/2018			7.74			7.91			
3/29/2018		7.38			5.63		6.09	7.02	
4/2/2018									
4/3/2018									
4/4/2018									
6/5/2018		7.16							
6/6/2018				6.17				7.43	
6/7/2018					5.63	7.69	6.12		
6/8/2018			7.64						5.45
6/11/2018									
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	7.13	
10/1/2018		6.8	7.47	5.9		7.39			5.39
10/2/2018									
2/25/2019	6.51								
2/26/2019									5.46
2/27/2019		6.84	7.54	5.8		7.55			



# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	GWA-2 (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-14S (bg)
2/8/2022	5.83								
2/9/2022		7.12	7.66	6.24		7.97			
2/10/2022					5.14			6.99	4.5
2/11/2022							5.95		
8/30/2022	5.39	7.2			5			7.4	
8/31/2022			7.49	5.64		7.65	5.5		5.15

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	5.75								
6/6/2016		6.17	5.71						
6/7/2016				5.62	6.1	5.77			
7/25/2016	5.82								
7/26/2016									
7/27/2016		6.14	5.46	5.59		5.79			
7/28/2016					6.12				
8/30/2016							5.75		
8/31/2016								7.15	6.01
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016				5.58					
9/19/2016	5.78 (D)	6.04	5.59		6.12	5.73			
11/1/2016	5.62								
11/2/2016						5.67			
11/3/2016		5.97	5.39	5.59	6.07				
11/4/2016									
11/14/2016							5.59	6.96	
11/15/2016									5.91
11/16/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		6.05	5.48	5.59					
1/12/2017									
1/13/2017					6.41	5.79			
1/16/2017	5.72								
2/21/2017	5.67								
2/22/2017									
2/24/2017							5.49		
2/27/2017								6.79	
2/28/2017									5.85
3/1/2017		5.94	5.41						
3/2/2017				5.54					
3/3/2017									
3/6/2017					6.34	5.63			







# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWA-30I (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44
2/8/2022							5.4		
2/9/2022		5.98	5.28	5.53	6.84	5.91		6.15	5.73
2/10/2022									
2/11/2022	5.59								
8/30/2022		5.82	5.18	4.68	6.58				
8/31/2022	5.87					5.38	5.32	6.56	5.77

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
8/27/2008					
3/3/2009					
11/18/2009					
3/3/2010					
3/10/2011					
9/8/2011					
3/5/2012					
9/10/2012					
2/6/2013					
8/12/2013					
2/5/2014					
8/3/2015					
2/16/2016					
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	6.19				
9/13/2016		7.41			
9/14/2016					
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		7.12			
11/14/2016					
11/15/2016					
11/16/2016	6.05				
11/28/2016					
12/15/2016		7.24			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		7.24			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	6.01				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		7.22			
3/6/2017					

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		7.21			
5/1/2017					
5/2/2017					
5/8/2017	6.1				
5/9/2017					
5/26/2017		7.13			
6/27/2017					
6/28/2017		7.06			
6/29/2017					
6/30/2017					
7/11/2017					
7/13/2017	6.07				
7/17/2017					
10/3/2017		6.99			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	5.93		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					
4/2/2018					
4/3/2018			6.87	5.84	
4/4/2018	6.01				
6/5/2018					
6/6/2018					
6/7/2018		7.29			
6/8/2018					
6/11/2018					
6/28/2018			6.18	5.24	
8/6/2018					
8/7/2018			6.08	5.18	
9/19/2018	6.09				
9/24/2018			5.81	5.14	
9/25/2018					
9/26/2018					
10/1/2018		7.07			
10/2/2018					
2/25/2019					
2/26/2019					
2/27/2019		7.27			

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
3/4/2019					
3/5/2019					
3/6/2019					
3/26/2019				5.3	
3/27/2019	6.2		5.84		
3/28/2019					
3/29/2019		7.06			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
8/19/2019					
8/20/2019					
8/21/2019	5.82		5.96	5.26	
9/24/2019		7.01			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	5.96		5.81	5.22	
2/10/2020					
2/11/2020		7.38			
2/12/2020			5.97	5.3	
3/17/2020	5.99				
3/18/2020					
3/19/2020		7.22			
3/24/2020				5.29	
3/25/2020			5.78		
5/6/2020					
7/6/2020	6.89				
8/26/2020					
8/27/2020					5.8
8/28/2020	7.05				
9/22/2020					5.91
9/23/2020	6.81	7.22			
9/24/2020			5.7	5.43	
9/25/2020					
10/7/2020	7.06				5.87
2/8/2021					
2/9/2021					
2/10/2021		7.29	5.8	5.19	
2/11/2021					
2/12/2021					
3/1/2021					5.84
3/2/2021	6.72				
3/3/2021		7.92			
3/4/2021			5.54	5.23	
8/19/2021					
8/20/2021					6.71
8/26/2021			6.91		
8/27/2021	6.83	7.14			
9/1/2021					
9/3/2021				4.75	

# Prediction Limit

Constituent: pH, Field (S.U.) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
2/8/2022			5.78	5.26	
2/9/2022	6.98	5.89			5.99
2/10/2022					
2/11/2022					
8/30/2022		7.04			
8/31/2022	6.87		5.3	4.53	5.58

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	5	4.2	12						
6/2/2016				1.9	20	8	6.6	1.3	5.8
6/6/2016									
6/7/2016									
7/25/2016		3.7	8.4					1.2	
7/26/2016	5.4			1.8	20	7.7	6.1		6.7
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	2.9	5.2							
9/14/2016			8.6	1.8	19	7.5			
9/15/2016							6.1		6
9/16/2016									
9/19/2016								1.2	
11/1/2016	3.9		8.9					1.3	4.9
11/2/2016					20	8.2	6.3		
11/3/2016									
11/4/2016		5		2					
11/14/2016									
11/15/2016									
11/16/2016									
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	
2/21/2017								1.4	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			9.3						
3/2/2017	4.6	7.4							4.4
3/3/2017									
3/6/2017						8			
3/7/2017				2.1	20				
3/8/2017							7		
4/26/2017			11				7	1.4	5.1
4/27/2017	5.2	7.4							
4/28/2017									
5/1/2017					20	8.4			
5/2/2017				2					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	5.9	6.4		2.1	18				
6/28/2017			12						5.4
6/29/2017						9.2			

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/30/2017							6.5	<1	
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	6.6	5.9		2.3	16				
10/4/2017			12					1.4	6.2
10/5/2017						9.6	7.9		
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									
4/4/2018									
6/5/2018	6.4								
6/6/2018		4.4			8.3				
6/7/2018				2		8.5			6.7
6/8/2018			9.6				6.4		
6/11/2018								1.1	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				2.3	7.9	10.2			
10/1/2018	5.6	4	9.1				6.8		7.1
10/2/2018								1	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	8	4.3							
3/29/2019							7.3		
4/1/2019			8.5					0.96 (J)	7.2
4/2/2019									
4/3/2019				2.1	7	8.5			
6/12/2019									
9/24/2019	5.3	4.3		2.4	5.5				
9/25/2019			13.8			8.5	6.6	0.81 (J)	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
3/24/2020				2.1	5.9				
3/25/2020						8.8			



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				2.1	5.5	8.2			
9/23/2020	8.1	3.4	16.8						6.9
9/24/2020								0.69 (J)	
9/25/2020							6.1		
10/7/2020									
11/12/2020									
3/1/2021								0.88 (J)	
3/2/2021				2.3	2.6		6		
3/3/2021	9	4.4	9.6			7.8			7
3/4/2021									
8/19/2021	8.9	4.9					6.7	1	7.5
8/20/2021									
8/26/2021				2.4	6	8.5			
8/27/2021			18.2						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	9.3	5.1	16						7.2
2/10/2022				2.4	4.9		6.2		
2/11/2022						7.7		2.8	
8/30/2022	10.2			2.4	5.7				
8/31/2022		4.8	13.9			8	5.8	1.1	6.9

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			5.2	4.4	<1				
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7		4.7	0.08 (J)				
7/28/2016			5.1						
8/30/2016						160			
8/31/2016							190	150	29
9/1/2016									
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)				
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	1.9	0.69 (J)	5	5.3					
11/4/2016									
11/14/2016						150	200		
11/15/2016								150	
11/16/2016									
11/28/2016									36
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									
2/21/2017									
2/22/2017									43
2/24/2017						120			
2/27/2017							190		
2/28/2017								130	
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					
5/8/2017						120		150	60
5/9/2017							190		
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.5	5.2	<1				



# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020							51.5	130	145
9/23/2020	1.1	0.53 (J)		5.1			170		
9/24/2020			3.6		<1				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021							51.6	159	119
3/2/2021									156
3/3/2021	1	<1		5.2	<1				
3/4/2021			4.5						
8/19/2021							52.6	149	115
8/20/2021									121
8/26/2021	1.2								
8/27/2021		0.59 (J)		5.3	<1				
9/1/2021			5						
9/3/2021									
2/8/2022							50.9		107
2/9/2022	1.1	0.51 (J)	3.9	4.8	<1		164	121	
2/10/2022									
2/11/2022									
8/30/2022	1.3	0.78 (J)	3.2	4.7					101
8/31/2022					<1	48	177	130	

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	770				
9/13/2016					
9/14/2016		9.4			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		13			
11/14/2016					
11/15/2016					
11/16/2016	780				
11/28/2016					
12/15/2016		1.8			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		11			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	650				
2/28/2017					
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					
5/8/2017	770				
5/9/2017					
5/26/2017		12			
6/27/2017					
6/28/2017		11			
6/29/2017					

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	630				
7/17/2017					
10/3/2017		7.9			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	540		20		
10/12/2017				17	
10/16/2017					
11/20/2017			24	71	
1/10/2018				66	
1/11/2018			23		
2/19/2018				57.2	
2/20/2018			20.6		
4/2/2018					
4/3/2018			24.5	49.4	
4/4/2018	430				
6/5/2018					
6/6/2018					
6/7/2018		8.8			
6/8/2018					
6/11/2018					
6/28/2018			22	43.8	
8/6/2018					
8/7/2018			20.7	40.5	
9/19/2018	395				
9/24/2018			21.2	39.7	
9/25/2018					
9/26/2018					
10/1/2018		9.1			
10/2/2018					
2/25/2019					
3/26/2019				34.3	
3/27/2019	437		17.7		
3/28/2019					
3/29/2019		9			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		9.1			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	<1		15	27.9	
3/17/2020	439				
3/18/2020					
3/19/2020		12.4			
3/24/2020				25.2	
3/25/2020			14.3		

# Prediction Limit

Constituent: Sulfate as SO4 (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	385				
8/27/2020					144
8/28/2020	394				
9/22/2020					156
9/23/2020	430	11.8			
9/24/2020			11.7	22.9	
9/25/2020					
10/7/2020	427				156
11/12/2020	385				147
3/1/2021					139
3/2/2021	387				
3/3/2021		10.6			
3/4/2021			12	21.5	
8/19/2021					
8/20/2021					122
8/26/2021			19.2		
8/27/2021	423	16.7			
9/1/2021					
9/3/2021				21.3	
2/8/2022			14.6	17.9	
2/9/2022	415	18			119
2/10/2022					
2/11/2022					
8/30/2022		20.1			
8/31/2022	459		10.9	17.9	122

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III - Parametric

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/1/2016	120	54	150						
6/2/2016				66	160	96	46	36	130
6/6/2016									
6/7/2016									
7/25/2016		48	135					50	
7/26/2016	94			78	177	92	54		141
7/27/2016									
7/28/2016									
8/30/2016									
8/31/2016									
9/1/2016									
9/13/2016	105	67							
9/14/2016			127	73	187	102			
9/15/2016							54		153
9/16/2016									
9/19/2016								35	
11/1/2016	44		75					<25	92
11/2/2016					181	115	71		
11/3/2016									
11/4/2016		60		75					
11/14/2016									
11/15/2016									
11/16/2016									
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	
2/21/2017								<25	
2/22/2017									
2/24/2017									
2/27/2017									
2/28/2017									
3/1/2017			182						
3/2/2017	98	61							117
3/3/2017									
3/6/2017						159			
3/7/2017				108	257				
3/8/2017							178		
4/26/2017			92				52	55	181
4/27/2017	116	31							
4/28/2017									
5/1/2017					165	107			
5/2/2017				103					
5/8/2017									
5/9/2017									
5/26/2017									
6/27/2017	89	42		73	189				
6/28/2017			126						169
6/29/2017						79			



# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III - Parametric

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
6/30/2017							45	42	
7/11/2017									
7/13/2017									
7/17/2017									
10/3/2017	119	58		89	170				
10/4/2017			147					31	141
10/5/2017						95	40		
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									
4/4/2018									
6/5/2018	127								
6/6/2018		96			151				
6/7/2018				142		90			95
6/8/2018			158				114		
6/11/2018								59	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				86	144	116			
10/1/2018	117	60	138				50		165
10/2/2018								57	
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	87	87							
3/29/2019							63		
4/1/2019			19 (J)					54	149
4/2/2019									
4/3/2019				83	142	111			
6/12/2019									
9/24/2019	124	54		79	129				
9/25/2019			159			117	64	51	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
3/24/2020				68	139				
3/25/2020						146			

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III - Parametric  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-5I (bg)	YGWA-5D (bg)	YGWA-4I (bg)	YGWA-14S (bg)	YGWA-30I (bg)	YGWA-3D (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020				75	104	83			
9/23/2020	108	15	155						157
9/24/2020								51	
9/25/2020							54		
10/7/2020									
11/12/2020									
3/1/2021								23	
3/2/2021				67	52		67		
3/3/2021	99	39	111			80			137
3/4/2021									
8/19/2021	105	44					54	50	144
8/20/2021									
8/26/2021				86	123	93			
8/27/2021			155						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	105	57	145						154
2/10/2022				77	127		56		
2/11/2022						102		66	
8/30/2022	116			86	148				
8/31/2022		46	137			92	51	33	141

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III - Parametric

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			60	28	38				
7/25/2016									
7/26/2016									
7/27/2016	35	94		74	74				
7/28/2016			81						
8/30/2016						319			
8/31/2016							402	332	209
9/1/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35			67					
9/19/2016		92	68		45				
11/1/2016									
11/2/2016					53				
11/3/2016	48	104	61	41					
11/4/2016									
11/14/2016						280	445		
11/15/2016								356	
11/16/2016									
11/28/2016									102
12/15/2016									
1/10/2017									
1/11/2017	95	133		104					
1/12/2017									
1/13/2017			76		46				
1/16/2017									
2/21/2017									
2/22/2017									164
2/24/2017						162			
2/27/2017							346		
2/28/2017								483	
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					
5/8/2017						194		296	145
5/9/2017							388		
5/26/2017									
6/27/2017									
6/28/2017	45	98							
6/29/2017			94	53	68				



# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III - Parametric  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWA-47 (bg)	YGWC-45	YGWC-44	GWA-2 (bg)
7/6/2020									
8/27/2020									
8/28/2020									
9/22/2020						141		294	281
9/23/2020	81	103		99			404		
9/24/2020			113		69				
9/25/2020									
10/7/2020									
11/12/2020									
3/1/2021						145	379	276	
3/2/2021									296
3/3/2021	37	95		57	53				
3/4/2021			110						
8/19/2021						134	391	333	
8/20/2021									254
8/26/2021	31								
8/27/2021		112		93	67				
9/1/2021			137						
9/3/2021									
2/8/2022						151			283
2/9/2022	60	103	131	81	72		400	311	
2/10/2022									
2/11/2022									
8/30/2022	52	100	122	81					244
8/31/2022					62	116	445	343	

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III - Parametric

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/1/2016					
6/2/2016					
6/6/2016					
6/7/2016					
7/25/2016					
7/26/2016					
7/27/2016					
7/28/2016					
8/30/2016					
8/31/2016					
9/1/2016	1240				
9/13/2016					
9/14/2016		152			
9/15/2016					
9/16/2016					
9/19/2016					
11/1/2016					
11/2/2016					
11/3/2016					
11/4/2016		148			
11/14/2016					
11/15/2016					
11/16/2016	1220				
11/28/2016					
12/15/2016		191			
1/10/2017					
1/11/2017					
1/12/2017					
1/13/2017					
1/16/2017		180			
2/21/2017					
2/22/2017					
2/24/2017					
2/27/2017	1060				
2/28/2017					
3/1/2017					
3/2/2017					
3/3/2017		156			
3/6/2017					
3/7/2017					
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017		130			
5/1/2017					
5/2/2017					
5/8/2017	1160				
5/9/2017					
5/26/2017		223			
6/27/2017					
6/28/2017		166			
6/29/2017					

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III - Parametric

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
6/30/2017					
7/11/2017					
7/13/2017	996				
7/17/2017					
10/3/2017		153			
10/4/2017					
10/5/2017					
10/10/2017					
10/11/2017	835		68		
10/12/2017				74	
10/16/2017					
11/20/2017			139	179	
1/10/2018				140	
1/11/2018			153		
2/19/2018				119	
2/20/2018			87		
4/2/2018					
4/3/2018			85	106	
4/4/2018	1470				
6/5/2018					
6/6/2018					
6/7/2018		146			
6/8/2018					
6/11/2018					
6/28/2018			88	112	
8/6/2018					
8/7/2018			89	103	
9/19/2018	702				
9/24/2018			82	107	
9/25/2018					
9/26/2018					
10/1/2018		155			
10/2/2018					
2/25/2019					
3/26/2019				90	
3/27/2019	641		75		
3/28/2019					
3/29/2019		150			
4/1/2019					
4/2/2019					
4/3/2019					
6/12/2019					
9/24/2019		146			
9/25/2019					
9/26/2019					
10/8/2019					
10/9/2019	809		119	98	
3/17/2020	733				
3/18/2020					
3/19/2020		148			
3/24/2020				84	
3/25/2020			158		

# Prediction Limit

Constituent: Total Dissolved Solids [TDS] (mg/L) Analysis Run 10/6/2022 4:56 PM View: Appendix III - Parametric  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-46A	YGWA-21 (bg)	YGWA-39 (bg)	YGWA-40 (bg)	YGWC-52
7/6/2020	793				
8/27/2020					349
8/28/2020	838				
9/22/2020					296
9/23/2020	832	161			
9/24/2020			170	77	
9/25/2020					
10/7/2020	842				336
11/12/2020	760				317
3/1/2021					265
3/2/2021	782				
3/3/2021		138			
3/4/2021			168	57	
8/19/2021					
8/20/2021					289
8/26/2021			249		
8/27/2021	810	150			
9/1/2021					
9/3/2021				88	
2/8/2022			248	93	
2/9/2022	846	156			278
2/10/2022					
2/11/2022					
8/30/2022		153			
8/31/2022	948		242	92	266



FIGURE E.

# Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/6/2022, 5:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	YGWA-40 (bg)	-0.01529	-77	-58	Yes	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-47 (bg)	-1.342	-95	-58	Yes	16	6.25	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-17S (bg)	0.1364	109	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-18S (bg)	-0.08039	-114	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-21I (bg)	0.9751	97	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-5D (bg)	-1.676	-100	-74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	GWA-2 (bg)	3.453	82	63	Yes	17	5.882	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1D (bg)	0.6514	86	74	Yes	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-1I (bg)	-0.09504	-93	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-47 (bg)	-0.4528	-84	-58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-17S (bg)	0.5433	127	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-18I (bg)	0.1027	78	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-20S (bg)	0.1337	107	74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-40 (bg)	0.326	66	58	Yes	16	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-5D (bg)	-0.7454	-124	-74	Yes	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	GWA-2 (bg)	0.2567	74	63	Yes	17	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-3D (bg)	-0.0435	-80	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-47 (bg)	-17.58	-107	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWC-45	-5.687	-69	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-39 (bg)	-2.631	-74	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-40 (bg)	-8.899	-89	-58	Yes	16	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5D (bg)	-2.862	-129	-74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-5I (bg)	0.08795	115	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	GWA-2 (bg)	17.26	87	63	Yes	17	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-1D (bg)	0.9733	121	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3D (bg)	0.3364	89	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-3I (bg)	1.016	86	74	Yes	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWC-46A	-50.31	-91	-81	Yes	20	5	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-47 (bg)	-14.82	-90	-58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-39 (bg)	30.24	64	58	Yes	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-5D (bg)	-12.99	-99	-74	Yes	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	GWA-2 (bg)	21.5	67	63	Yes	17	0	n/a	n/a	0.01	NP

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/6/2022, 5:04 PM

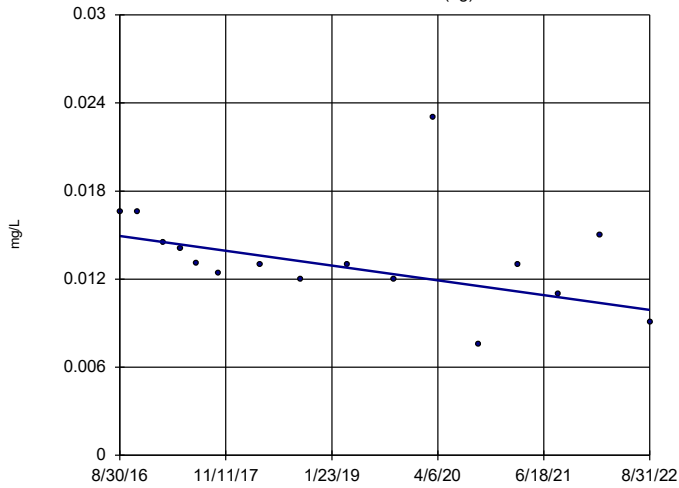
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron, total (mg/L)	YGWA-47 (bg)	-0.0008357	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWC-44	-0.02074	-55	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWC-45	0	-2	-58	No	16	0	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-17S (bg)	0.0001704	22	74	No	19	10.53	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18I (bg)	0	-22	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-18S (bg)	0.000309	24	74	No	19	21.05	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-20S (bg)	0	-9	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-21I (bg)	-0.0004731	-56	-74	No	19	57.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-39 (bg)	0.01331	56	58	No	16	6.25	n/a	n/a	0.01	NP
<b>Boron, total (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-0.01529</b>	<b>-77</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Boron, total (mg/L)	YGWA-4I (bg)	0	1	74	No	19	68.42	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5D (bg)	0.0003037	31	74	No	19	10.53	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-5I (bg)	0	-25	-74	No	19	63.16	n/a	n/a	0.01	NP
Boron, total (mg/L)	GWA-2 (bg)	0	23	63	No	17	64.71	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-14S (bg)	-0.000665	-40	-74	No	19	10.53	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1D (bg)	0.0008221	34	74	No	19	36.84	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-1I (bg)	0	-8	-74	No	19	73.68	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-2I (bg)	0	-6	-74	No	19	78.95	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-30I (bg)	0	-19	-74	No	19	84.21	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3D (bg)	0	0	74	No	19	57.89	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWA-3I (bg)	0	-17	-74	No	19	89.47	n/a	n/a	0.01	NP
Boron, total (mg/L)	YGWC-46A	0.07014	47	81	No	20	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-1.342</b>	<b>-95</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>6.25</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWC-45	-0.03813	-6	-58	No	16	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.1364</b>	<b>109</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-18I (bg)	0.04637	26	74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-18S (bg)</b>	<b>-0.08039</b>	<b>-114</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-20S (bg)	0.03848	54	74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-21I (bg)</b>	<b>0.9751</b>	<b>97</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-39 (bg)	1.273	55	58	No	16	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-40 (bg)	-0.6546	-42	-58	No	16	6.25	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-4I (bg)	0.04736	10	74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-1.676</b>	<b>-100</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-5I (bg)	0.06231	74	74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>3.453</b>	<b>82</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>
Calcium, total (mg/L)	YGWA-14S (bg)	0	-15	-74	No	19	0	n/a	n/a	0.01	NP
<b>Calcium, total (mg/L)</b>	<b>YGWA-1D (bg)</b>	<b>0.6514</b>	<b>86</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Calcium, total (mg/L)</b>	<b>YGWA-1I (bg)</b>	<b>-0.09504</b>	<b>-93</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Calcium, total (mg/L)	YGWA-2I (bg)	0.08578	13	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-30I (bg)	0.0125	31	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3D (bg)	0.4525	59	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWA-3I (bg)	0.5467	60	74	No	19	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-46A	2.783	78	81	No	20	0	n/a	n/a	0.01	NP
Calcium, total (mg/L)	YGWC-52	-6.094	-18	-21	No	8	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-0.4528</b>	<b>-84</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWC-44	0.1746	42	58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-17S (bg)</b>	<b>0.5433</b>	<b>127</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Chloride, Total (mg/L)</b>	<b>YGWA-18I (bg)</b>	<b>0.1027</b>	<b>78</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-18S (bg)	0.1557	72	74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-20S (bg)</b>	<b>0.1337</b>	<b>107</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-21I (bg)	-0.1148	-56	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-39 (bg)	0.768	51	58	No	16	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>0.326</b>	<b>66</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-4I (bg)	0.08123	41	74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-0.7454</b>	<b>-124</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>

# Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/6/2022, 5:04 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride, Total (mg/L)	YGWA-5I (bg)	0	5	74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>0.2567</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>
Chloride, Total (mg/L)	YGWA-14S (bg)	0.1251	51	74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1D (bg)	0	-37	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-1I (bg)	-0.01802	-38	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-2I (bg)	-0.02221	-34	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWA-30I (bg)	0	-8	-74	No	19	0	n/a	n/a	0.01	NP
<b>Chloride, Total (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>-0.0435</b>	<b>-80</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Chloride, Total (mg/L)	YGWA-3I (bg)	-0.02929	-65	-74	No	19	0	n/a	n/a	0.01	NP
Chloride, Total (mg/L)	YGWC-46A	-0.8443	-37	-81	No	20	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-17.58</b>	<b>-107</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-45</b>	<b>-5.687</b>	<b>-69</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-17S (bg)	0.04813	32	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18I (bg)	-0.1345	-67	-74	No	19	21.05	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-18S (bg)	-0.1232	-53	-74	No	19	10.53	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-20S (bg)	0	42	74	No	19	68.42	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-21I (bg)	-0.2256	-45	-74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>-2.631</b>	<b>-74</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-40 (bg)</b>	<b>-8.899</b>	<b>-89</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-4I (bg)	0.04641	22	74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-2.862</b>	<b>-129</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-5I (bg)</b>	<b>0.08795</b>	<b>115</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>17.26</b>	<b>87</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>
Sulfate as SO4 (mg/L)	YGWA-14S (bg)	0	-4	-74	No	19	0	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-1D (bg)</b>	<b>0.9733</b>	<b>121</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Sulfate as SO4 (mg/L)	YGWA-1I (bg)	-0.1053	-22	-74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-2I (bg)	1.041	62	74	No	19	0	n/a	n/a	0.01	NP
Sulfate as SO4 (mg/L)	YGWA-30I (bg)	-0.01853	-15	-74	No	19	10.53	n/a	n/a	0.01	NP
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-3D (bg)</b>	<b>0.3364</b>	<b>89</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWA-3I (bg)</b>	<b>1.016</b>	<b>86</b>	<b>74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Sulfate as SO4 (mg/L)</b>	<b>YGWC-46A</b>	<b>-50.31</b>	<b>-91</b>	<b>-81</b>	<b>Yes</b>	<b>20</b>	<b>5</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-47 (bg)</b>	<b>-14.82</b>	<b>-90</b>	<b>-58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWC-44	-5.653	-31	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-45	-0.1836	-2	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-17S (bg)	3.694	44	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18I (bg)	-0.8196	-19	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-18S (bg)	0.4345	10	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-20S (bg)	2.688	34	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-21I (bg)	10.54	68	74	No	19	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-39 (bg)</b>	<b>30.24</b>	<b>64</b>	<b>58</b>	<b>Yes</b>	<b>16</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWA-40 (bg)	-11.03	-58	-58	No	16	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-4I (bg)	0	-1	-74	No	19	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>YGWA-5D (bg)</b>	<b>-12.99</b>	<b>-99</b>	<b>-74</b>	<b>Yes</b>	<b>19</b>	<b>0</b>	<b>n/a</b>	<b>n/a</b>	<b>0.01</b>	<b>NP</b>
Total Dissolved Solids [TDS] (mg/L)	YGWA-5I (bg)	0	3	74	No	19	0	n/a	n/a	0.01	NP
<b>Total Dissolved Solids [TDS] (mg/L)</b>	<b>GWA-2 (bg)</b>	<b>21.5</b>	<b>67</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 [TDS] (mg/L)	YGWA-14S (bg)	0.3698	12	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1D (bg)	0.7444	13	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-1I (bg)	-2.443	-37	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-2I (bg)	-1.72	-28	-74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-30I (bg)	2.114	27	74	No	19	10.53	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3D (bg)	0.7739	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWA-3I (bg)	0.954	9	74	No	19	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-46A	-49.58	-46	-81	No	20	0	n/a	n/a	0.01	NP
Total Dissolved Solids [TDS] (mg/L)	YGWC-52	-36.62	-18	-21	No	8	0	n/a	n/a	0.01	NP

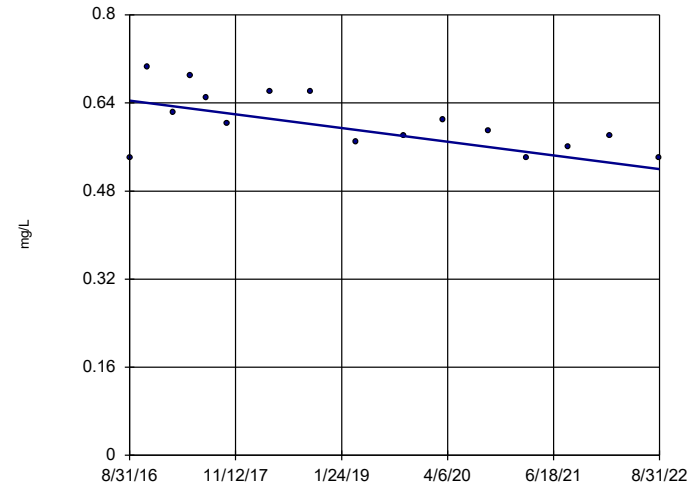
Sen's Slope Estimator  
YGWA-47 (bg)



n = 16  
Slope = -0.0008357  
units per year.  
Mann-Kendall  
statistic = -55  
critical = -58  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

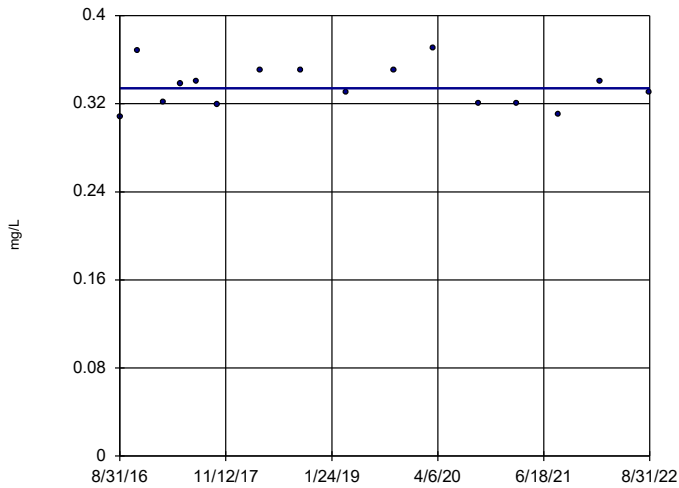
Sen's Slope Estimator  
YGWC-44



n = 16  
Slope = -0.02074  
units per year.  
Mann-Kendall  
statistic = -55  
critical = -58  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

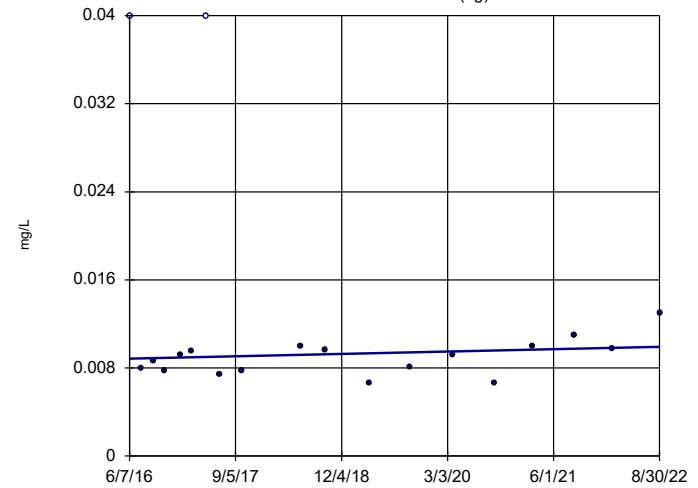
Sen's Slope Estimator  
YGWC-45



n = 16  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -2  
critical = -58  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-17S (bg)

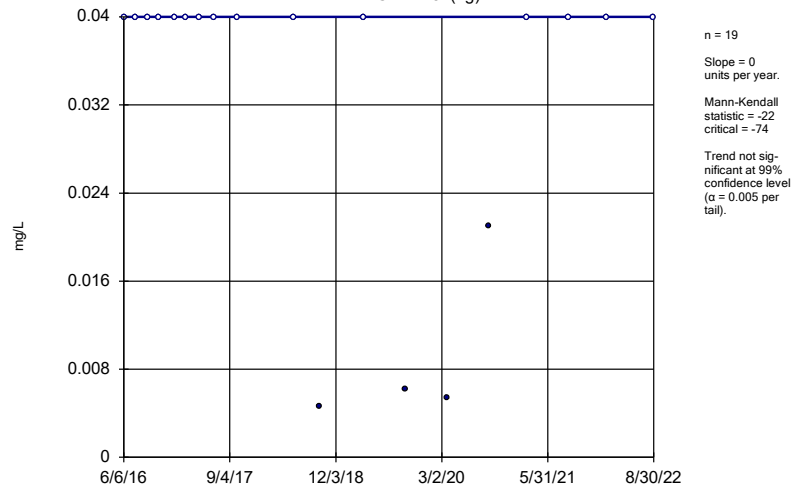


n = 19  
Slope = 0.0001704  
units per year.  
Mann-Kendall  
statistic = 22  
critical = 74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

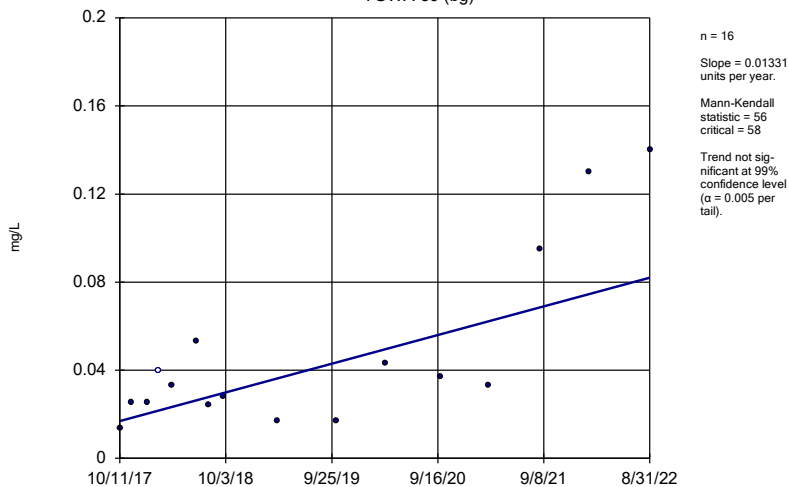
### Sen's Slope Estimator

YGWA-18I (bg)



### Sen's Slope Estimator

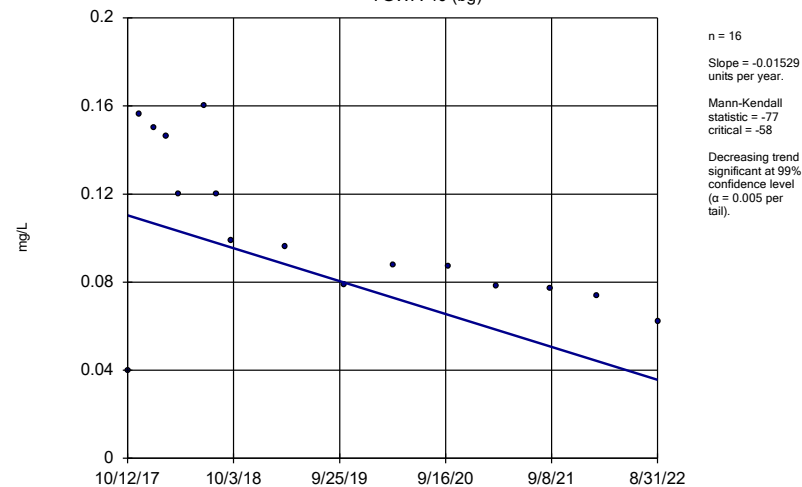
YGWA-39 (bg)



Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

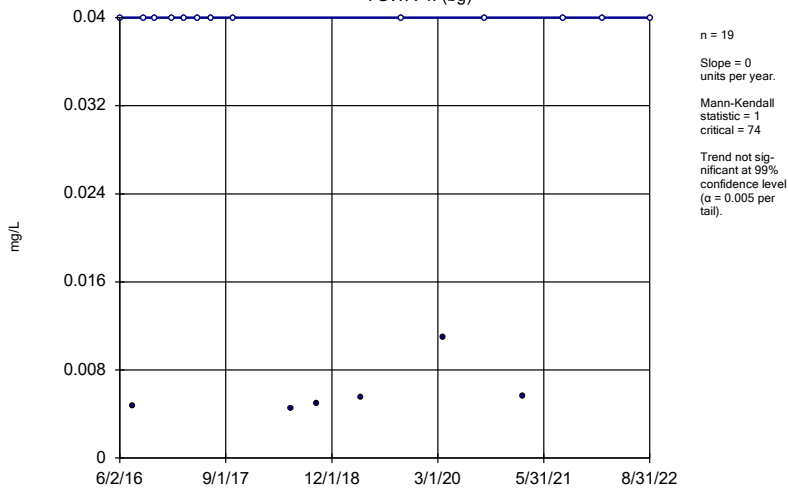
YGWA-40 (bg)



Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

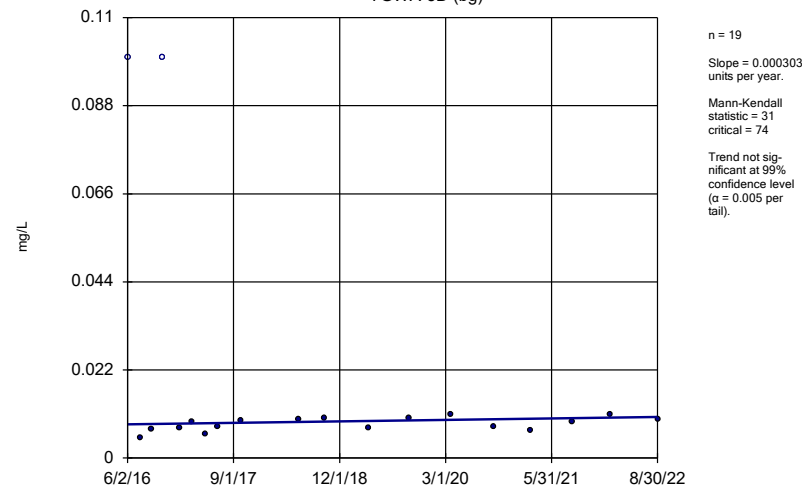
YGWA-41 (bg)



Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

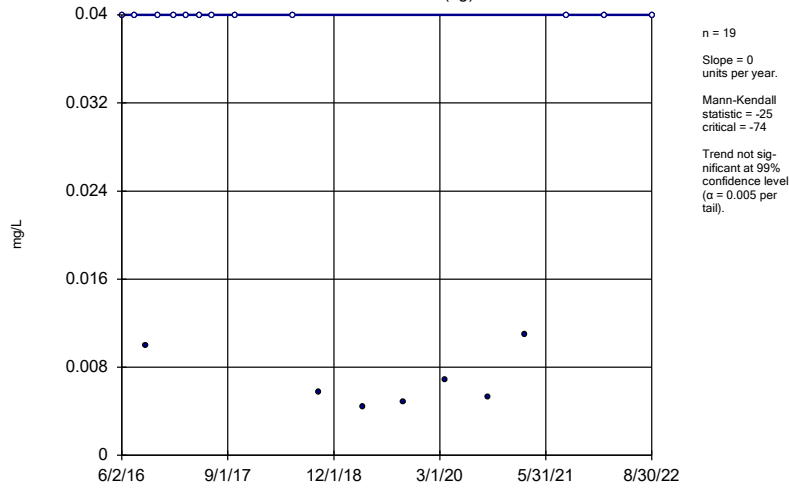
YGWA-5D (bg)



Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

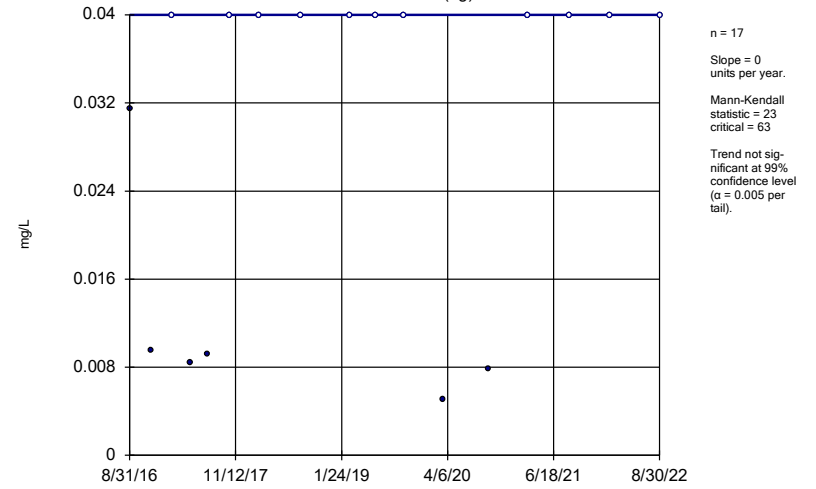
YGWA-5I (bg)



Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

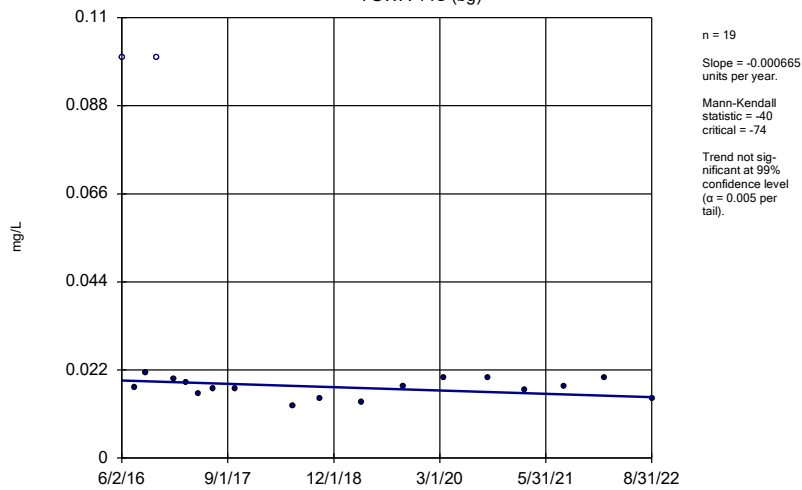
GWA-2 (bg)



Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

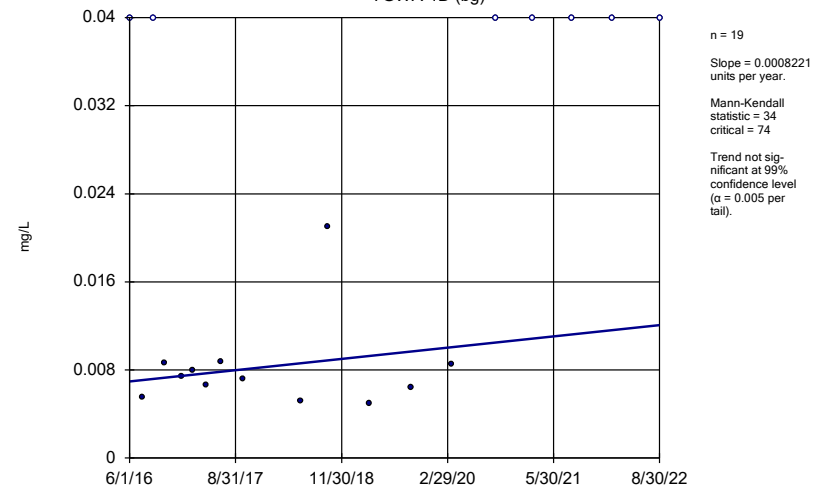
YGWA-14S (bg)



Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

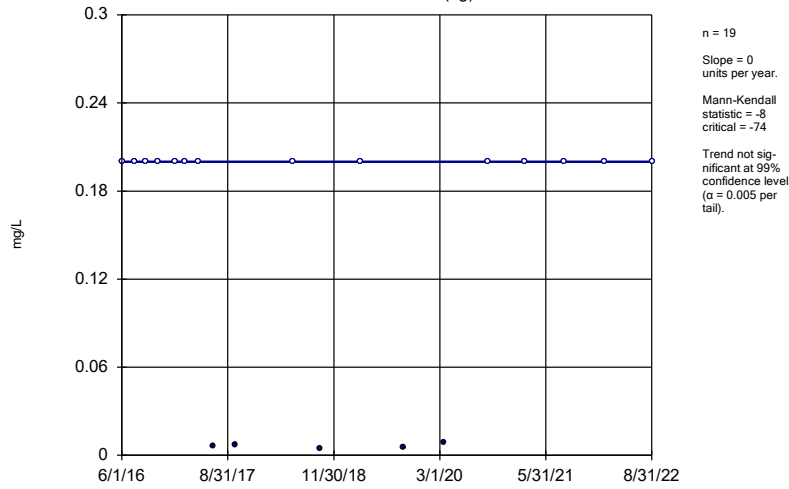
YGWA-1D (bg)



Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

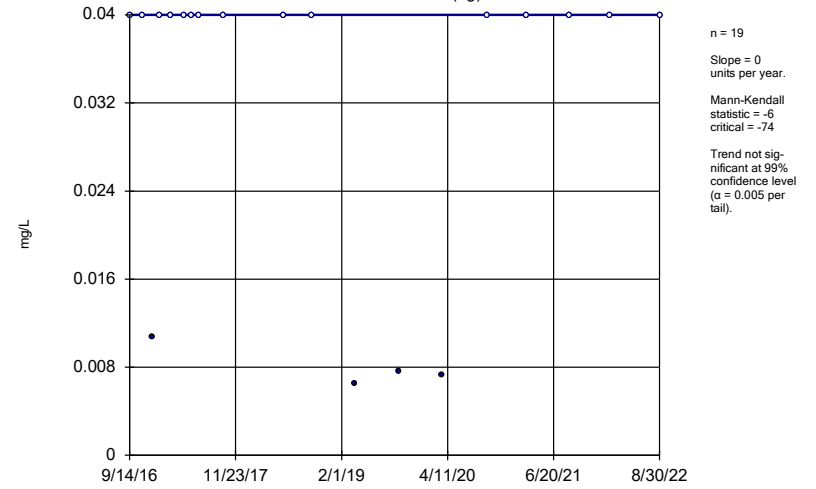


### Sen's Slope Estimator YGWA-11 (bg)



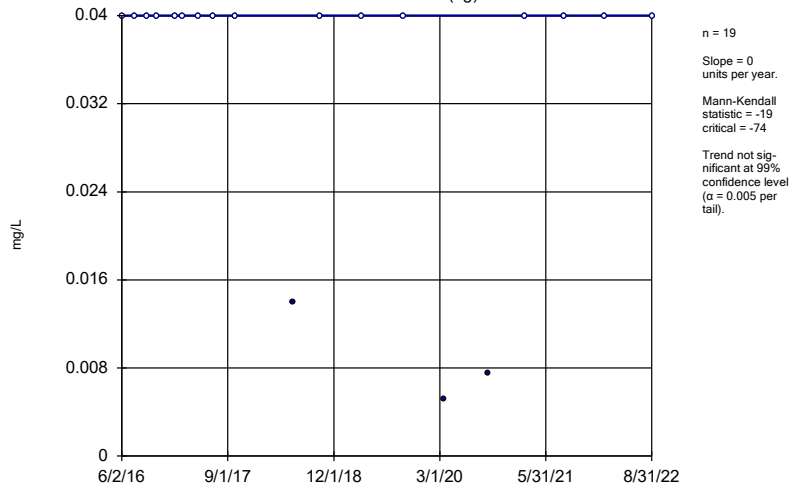
Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator YGWA-21 (bg)



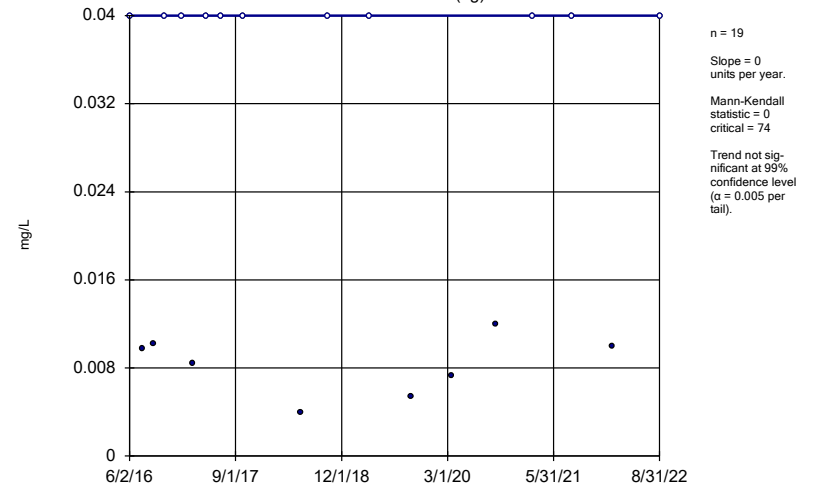
Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator YGWA-30I (bg)



Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator YGWA-3D (bg)

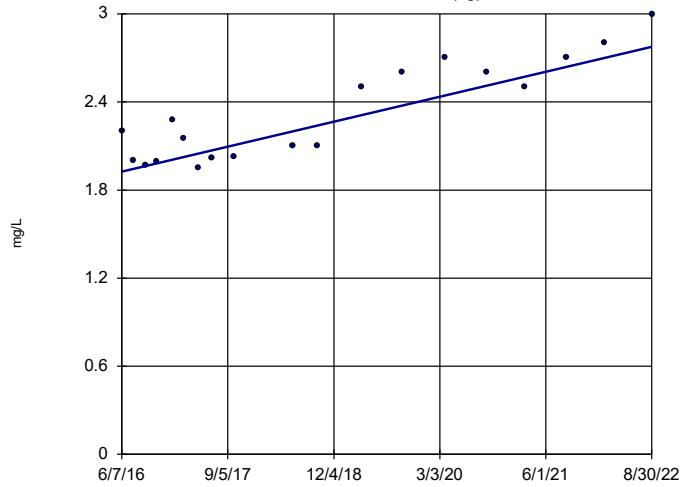


Constituent: Boron, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1



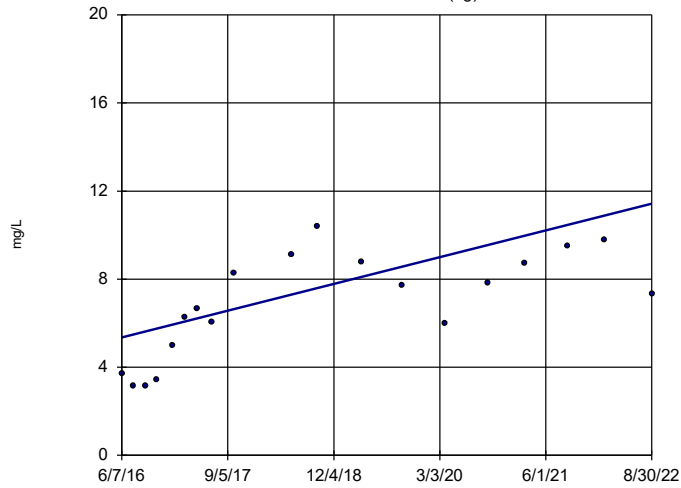
### Sen's Slope Estimator

YGWA-17S (bg)



### Sen's Slope Estimator

YGWA-21I (bg)

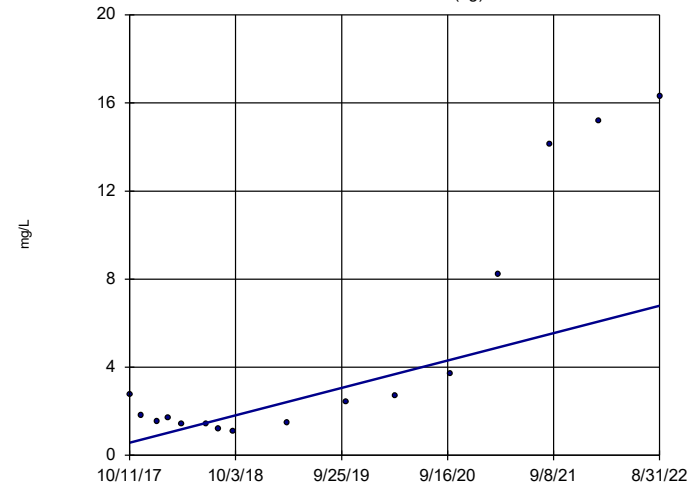


n = 19  
 Slope = 0.9751 units per year.  
 Mann-Kendall statistic = 97  
 critical = 74  
 Increasing trend significant at 99% confidence level ( $\alpha = 0.005$  per tail).

Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

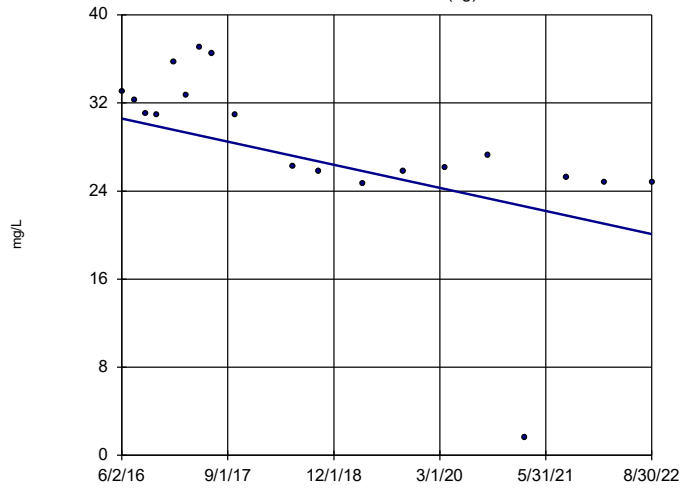
### Sen's Slope Estimator

YGWA-39 (bg)



### Sen's Slope Estimator

YGWA-5D (bg)

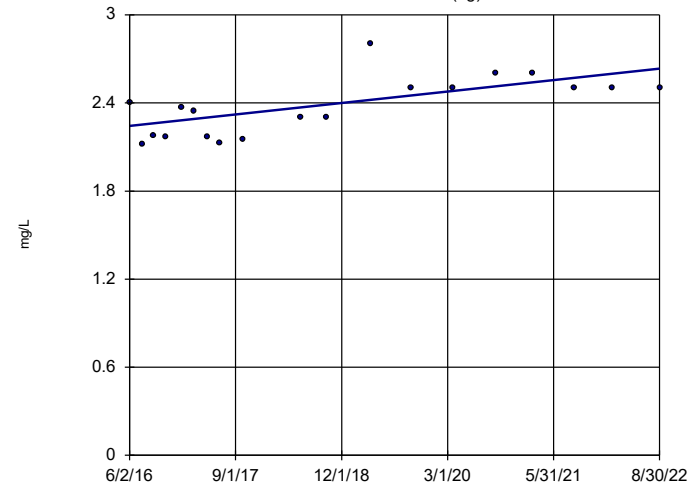


n = 19  
 Slope = -1.676  
 units per year.  
 Mann-Kendall  
 statistic = -100  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5I (bg)

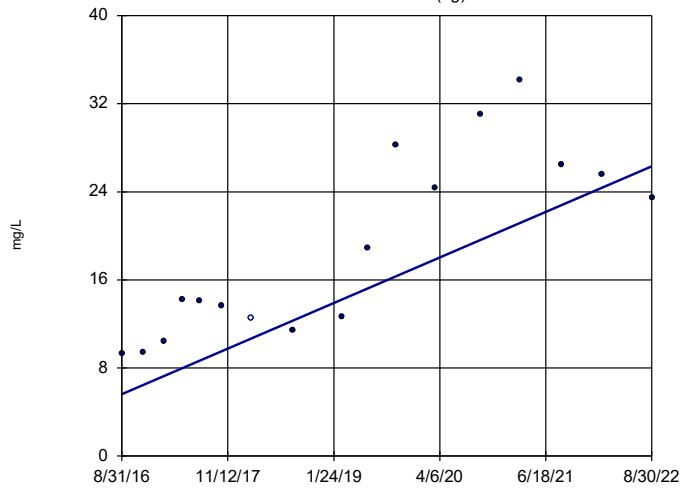


n = 19  
 Slope = 0.06231  
 units per year.  
 Mann-Kendall  
 statistic = 74  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

GWA-2 (bg)

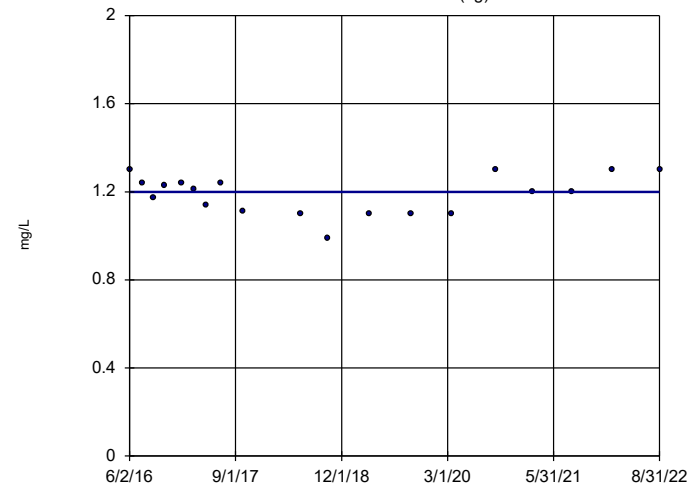


n = 17  
 Slope = 3.453  
 units per year.  
 Mann-Kendall  
 statistic = 82  
 critical = 63  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

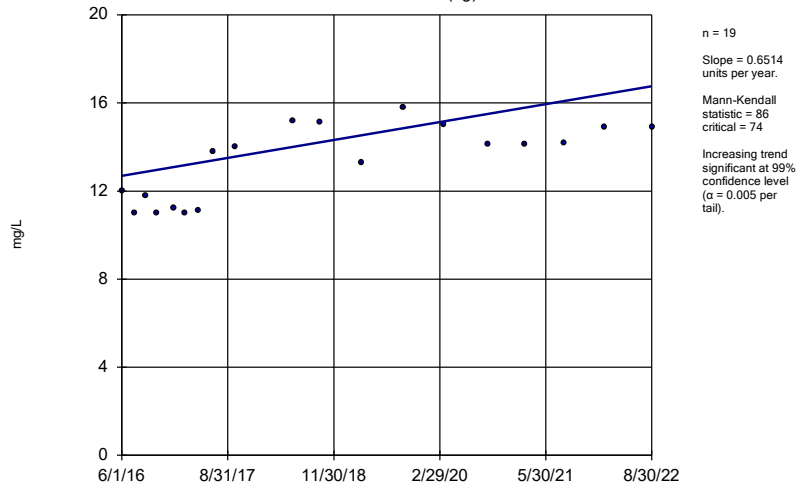
YGWA-14S (bg)



n = 19  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -15  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

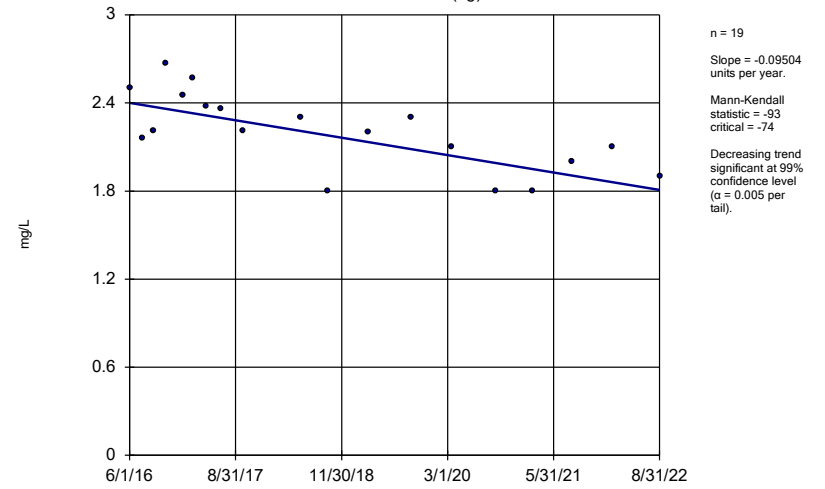
Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-1D (bg)



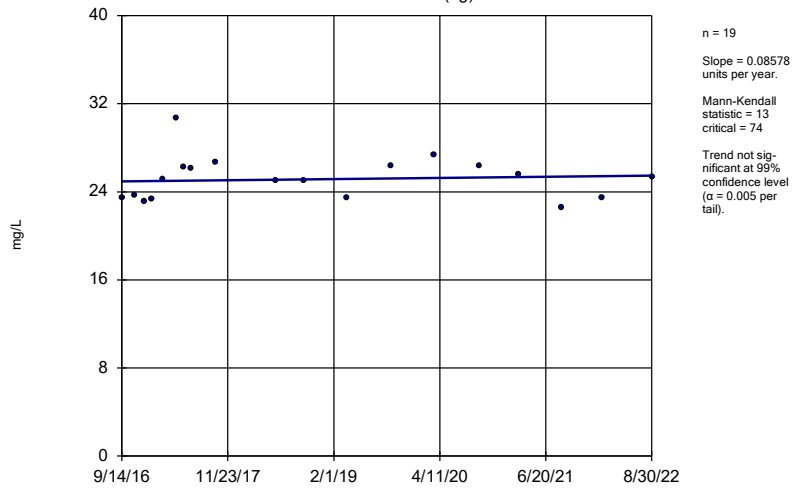
Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-1I (bg)

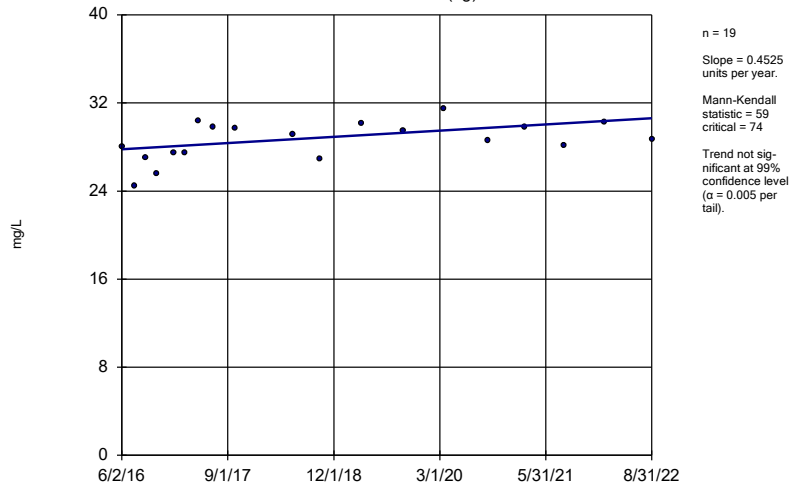


Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-2I (bg)

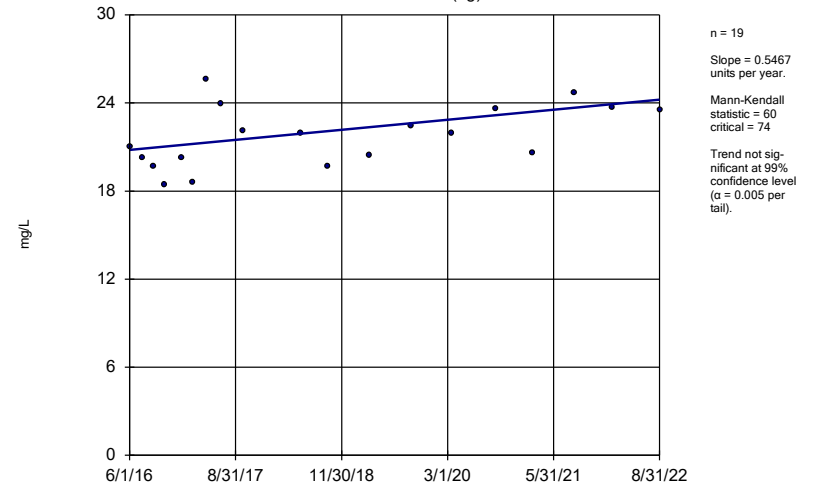


Sen's Slope Estimator  
YGWA-3D (bg)



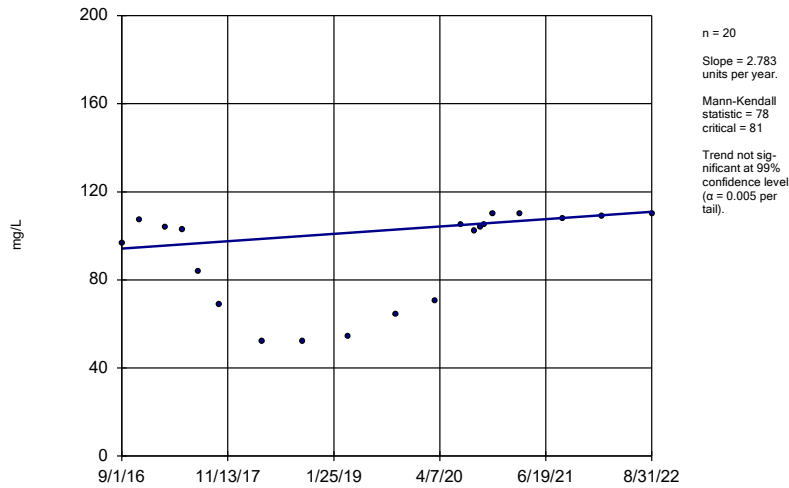
Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-3I (bg)



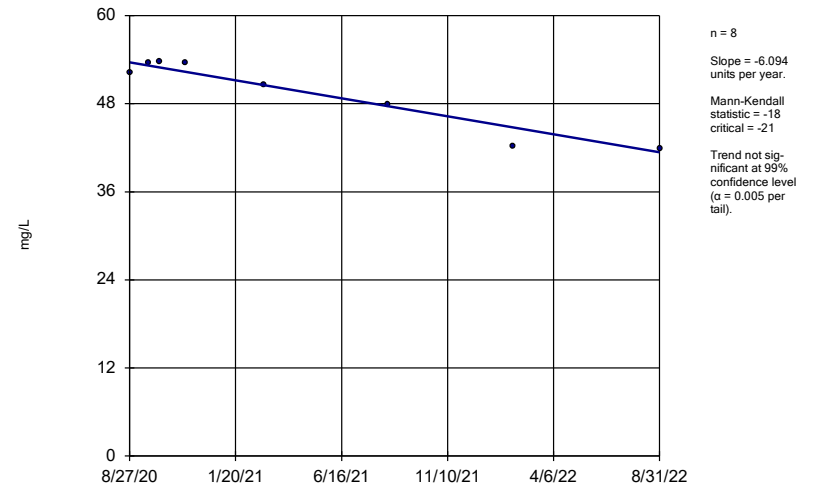
Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWC-46A



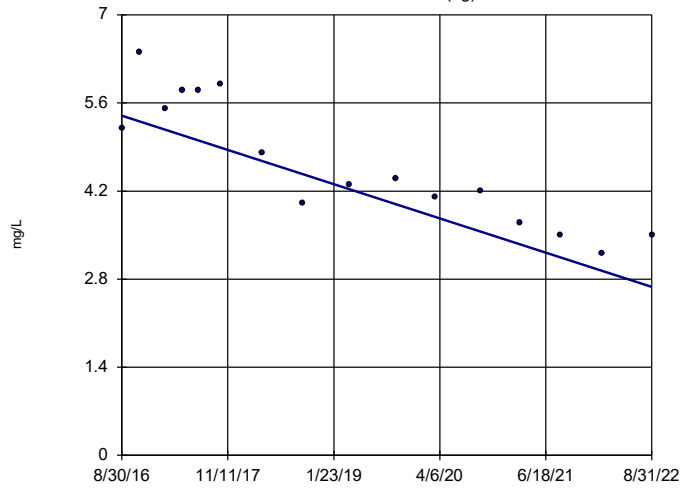
Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWC-52



Constituent: Calcium, total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

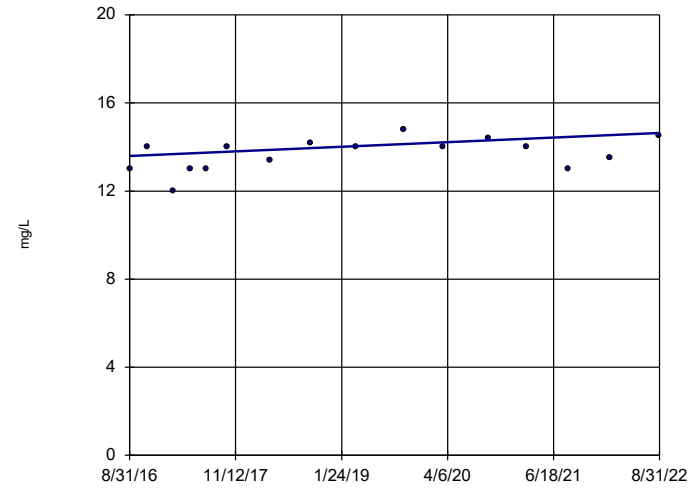
Sen's Slope Estimator  
YGWA-47 (bg)



n = 16  
Slope = -0.4528 units per year.  
Mann-Kendall statistic = -84  
critical = -58  
Decreasing trend significant at 99% confidence level ( $\alpha = 0.005$  per tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

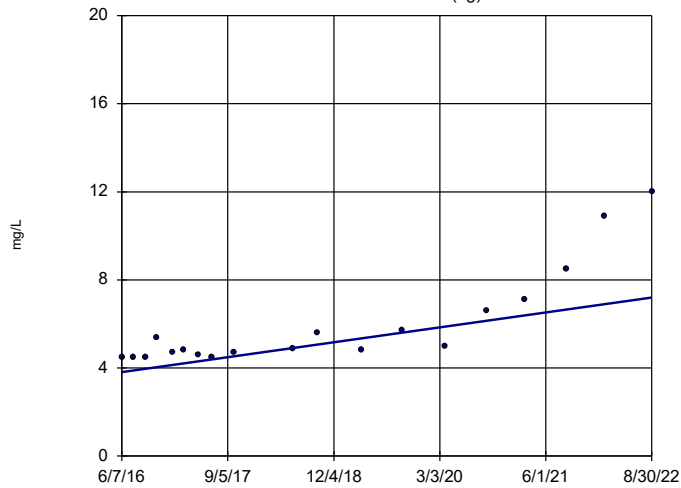
Sen's Slope Estimator  
YGWC-44



n = 16  
Slope = 0.1746 units per year.  
Mann-Kendall statistic = 42  
critical = 58  
Trend not significant at 99% confidence level ( $\alpha = 0.005$  per tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

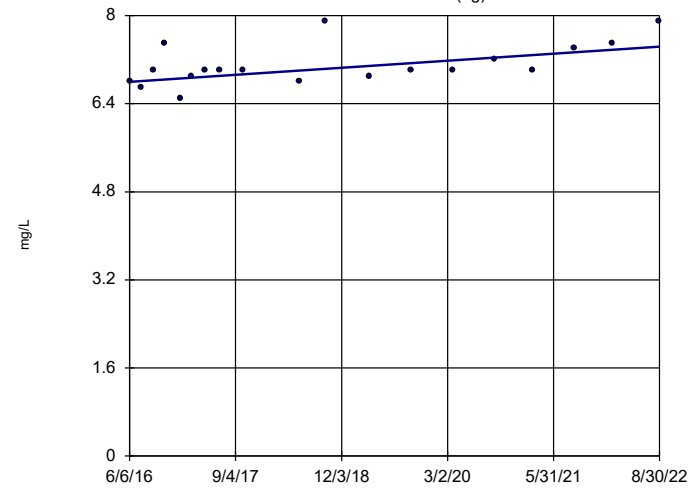
Sen's Slope Estimator  
YGWA-17S (bg)



n = 19  
Slope = 0.5433 units per year.  
Mann-Kendall statistic = 127  
critical = 74  
Increasing trend significant at 99% confidence level ( $\alpha = 0.005$  per tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-18I (bg)



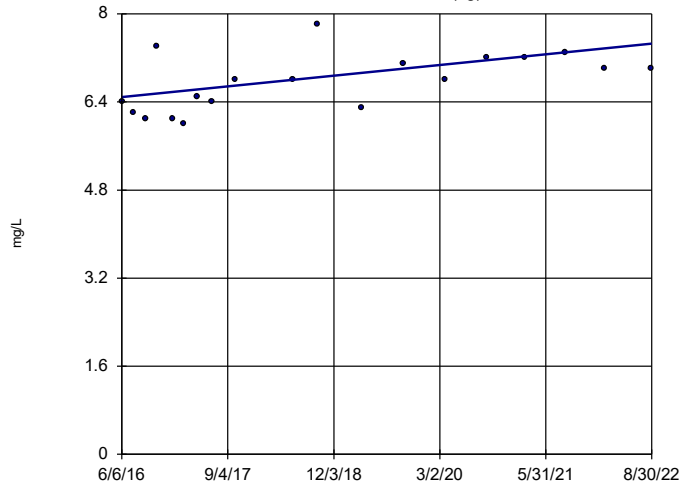
n = 19  
Slope = 0.1027 units per year.  
Mann-Kendall statistic = 78  
critical = 74  
Increasing trend significant at 99% confidence level ( $\alpha = 0.005$  per tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1



### Sen's Slope Estimator

YGWA-18S (bg)

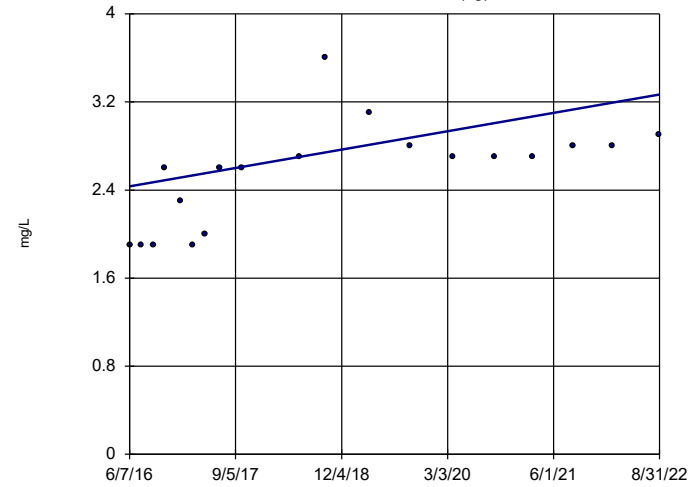


n = 19  
 Slope = 0.1557  
 units per year.  
 Mann-Kendall  
 statistic = 72  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-20S (bg)

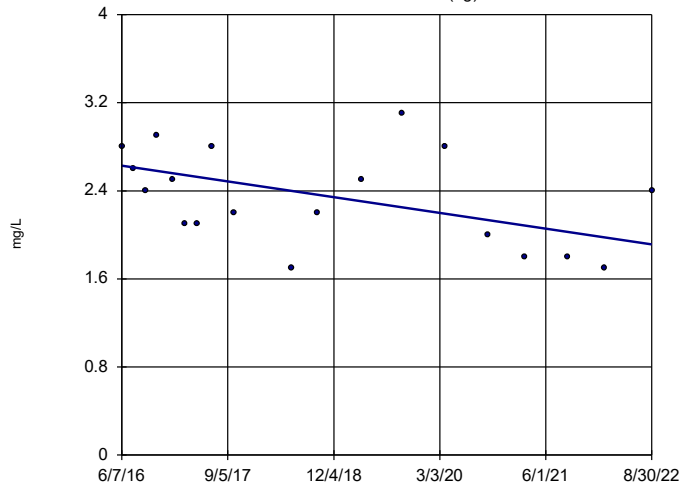


n = 19  
 Slope = 0.1337  
 units per year.  
 Mann-Kendall  
 statistic = 107  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-21I (bg)

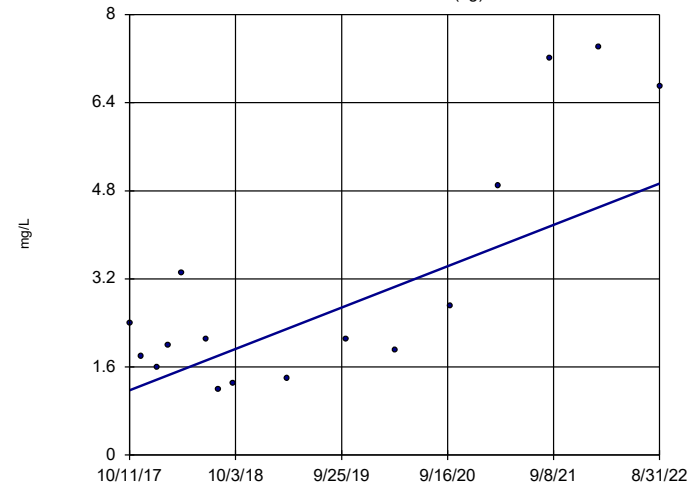


n = 19  
 Slope = -0.1148  
 units per year.  
 Mann-Kendall  
 statistic = -56  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

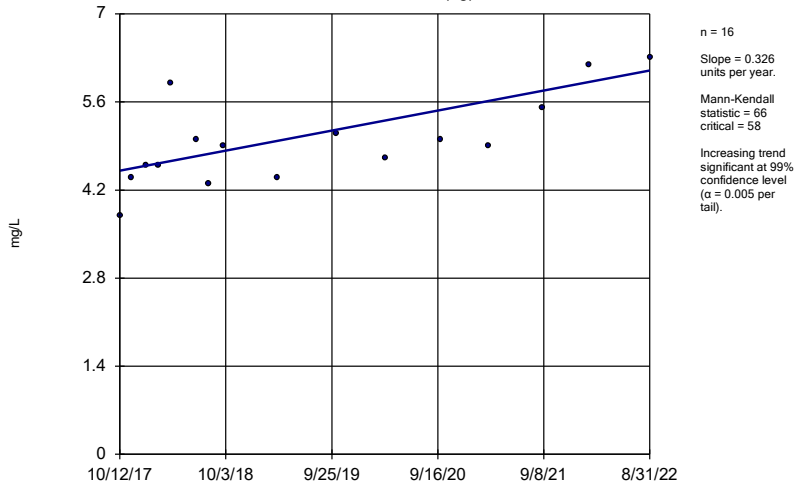
YGWA-39 (bg)



n = 16  
 Slope = 0.768  
 units per year.  
 Mann-Kendall  
 statistic = 51  
 critical = 58  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

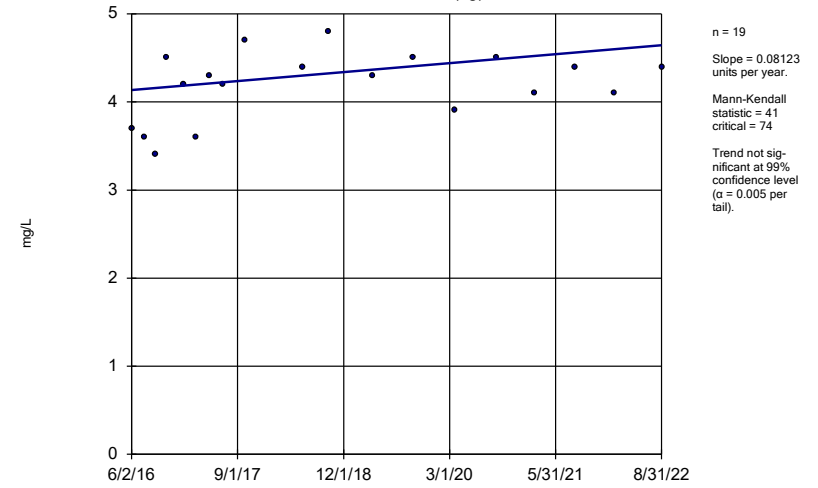
Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-40 (bg)



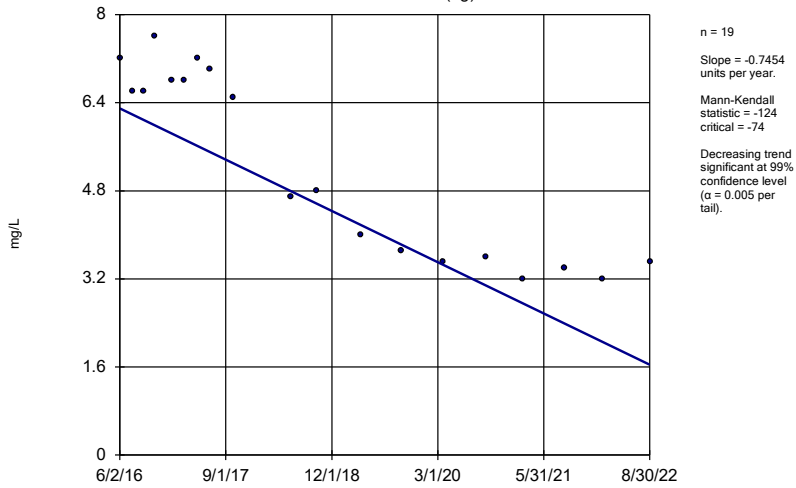
Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-4I (bg)

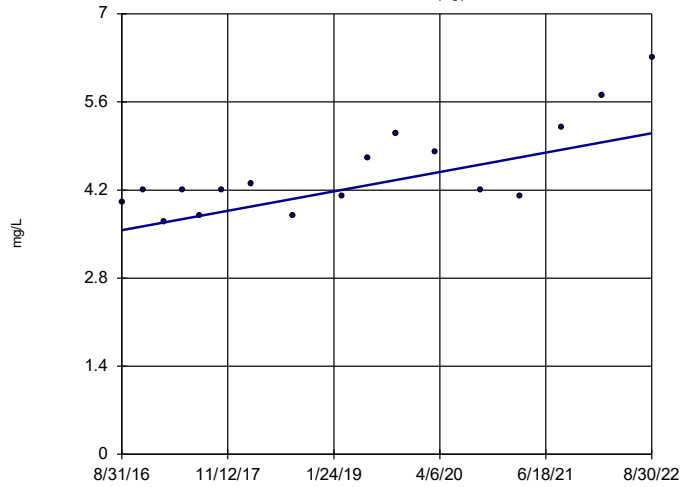


Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-5D (bg)



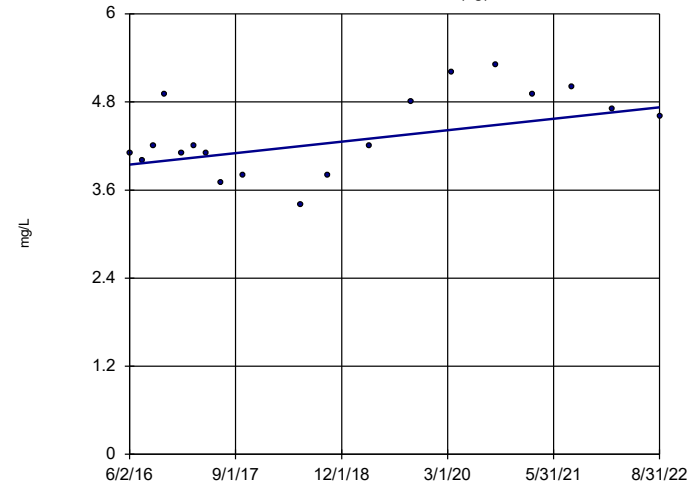
Sen's Slope Estimator  
GWA-2 (bg)



n = 17  
Slope = 0.2567  
units per year.  
Mann-Kendall  
statistic = 74  
critical = 63  
Increasing trend  
significant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

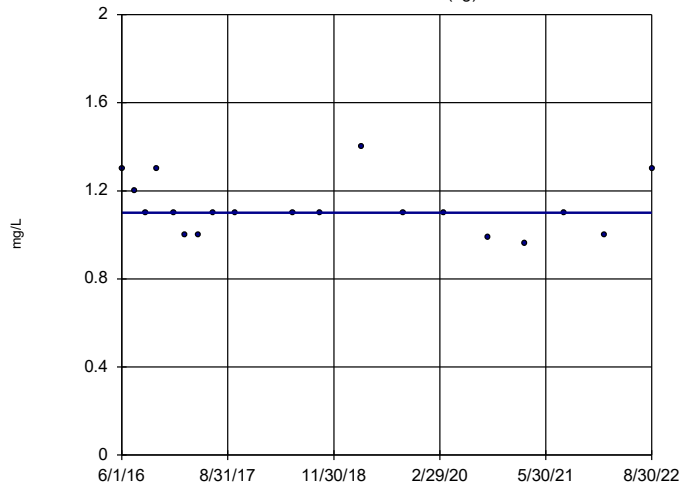
Sen's Slope Estimator  
YGWA-14S (bg)



n = 19  
Slope = 0.1251  
units per year.  
Mann-Kendall  
statistic = 51  
critical = 74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:02 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

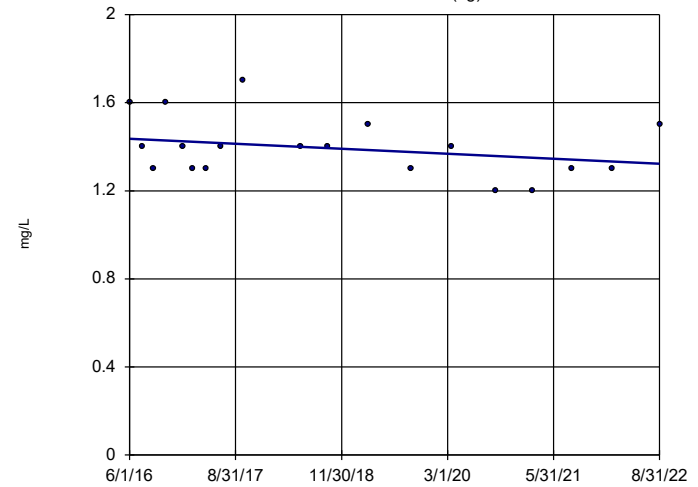
Sen's Slope Estimator  
YGWA-1D (bg)



n = 19  
Slope = 0  
units per year.  
Mann-Kendall  
statistic = -37  
critical = -74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-11 (bg)

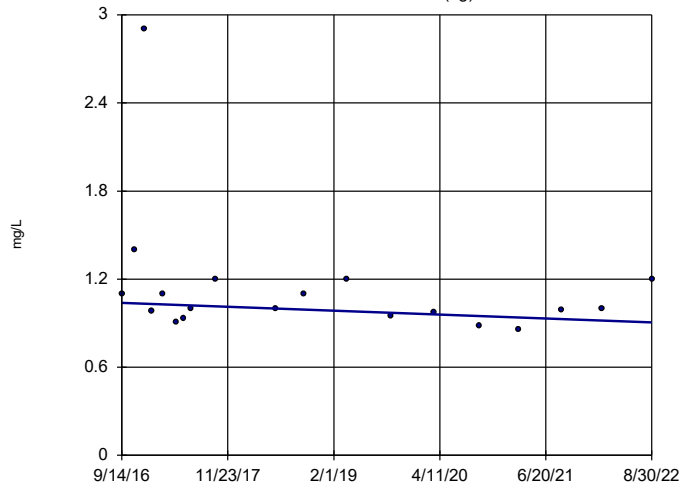


n = 19  
Slope = -0.01802  
units per year.  
Mann-Kendall  
statistic = -38  
critical = -74  
Trend not sig-  
nificant at 99%  
confidence level  
( $\alpha = 0.005$  per  
tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-21 (bg)

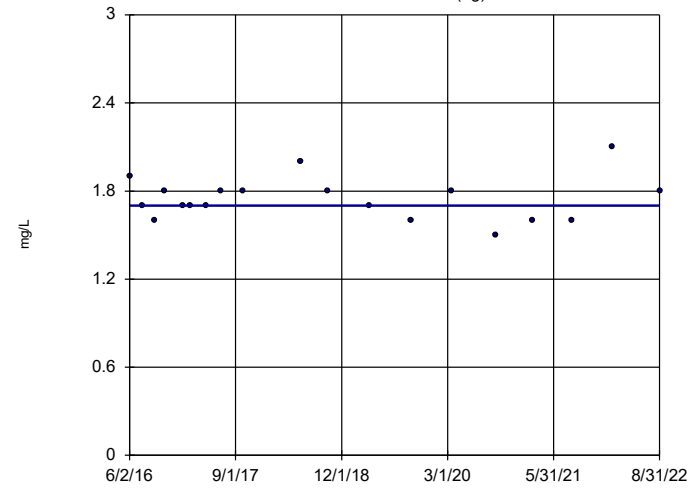


n = 19  
 Slope = -0.02221  
 units per year.  
 Mann-Kendall  
 statistic = -34  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-30I (bg)

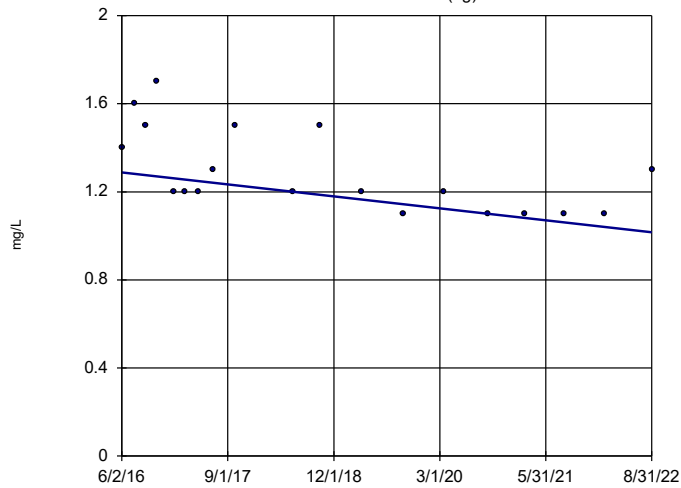


n = 19  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -8  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-3D (bg)

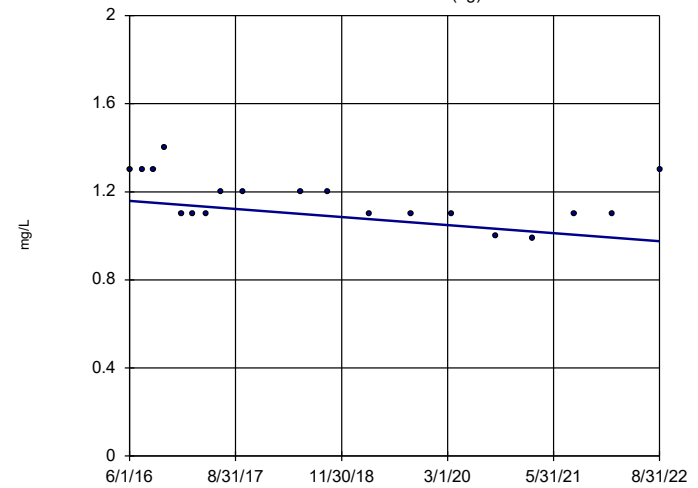


n = 19  
 Slope = -0.0435  
 units per year.  
 Mann-Kendall  
 statistic = -80  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-3I (bg)

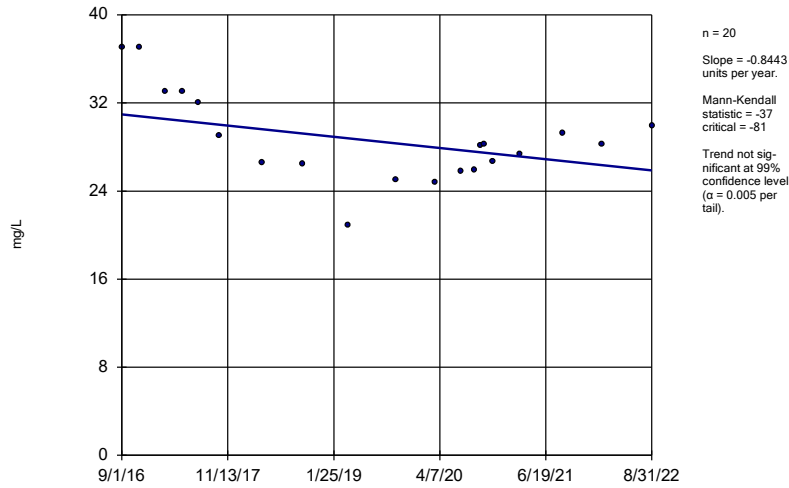


n = 19  
 Slope = -0.02929  
 units per year.  
 Mann-Kendall  
 statistic = -65  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Chloride, Total Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

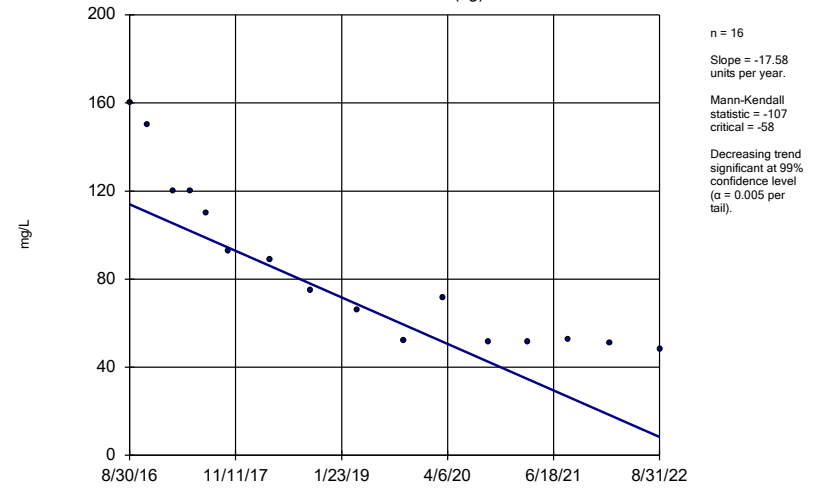
YGWC-46A



Constituent: Chloride, Total Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

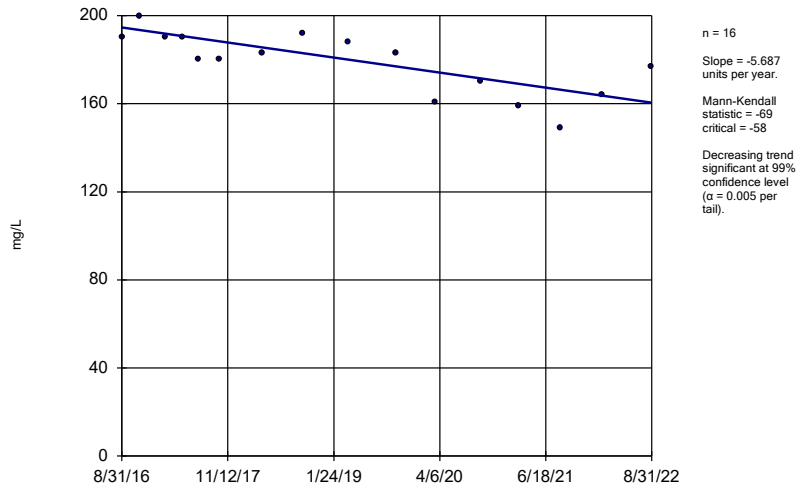
YGWA-47 (bg)



Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

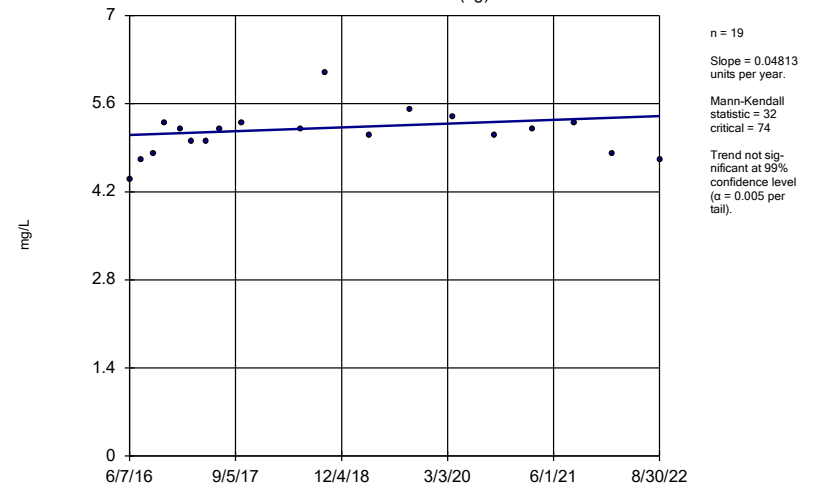
YGWC-45



Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

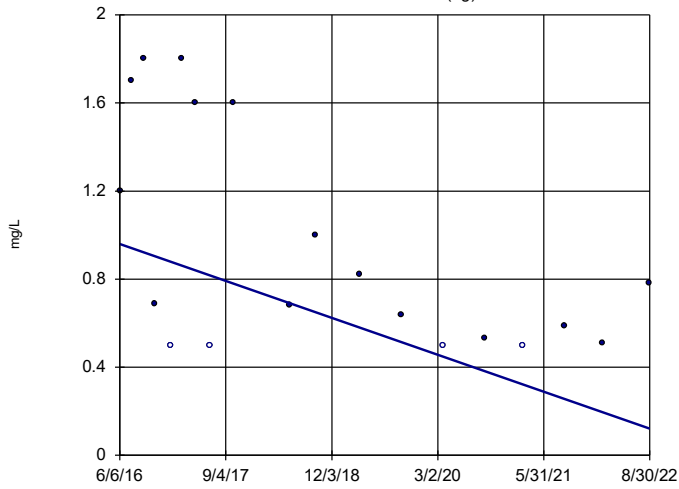
### Sen's Slope Estimator

YGWA-17S (bg)



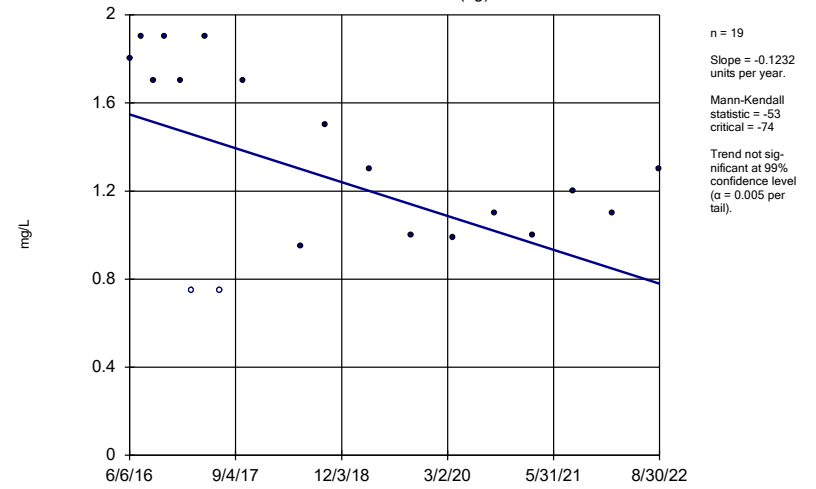
Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-18I (bg)



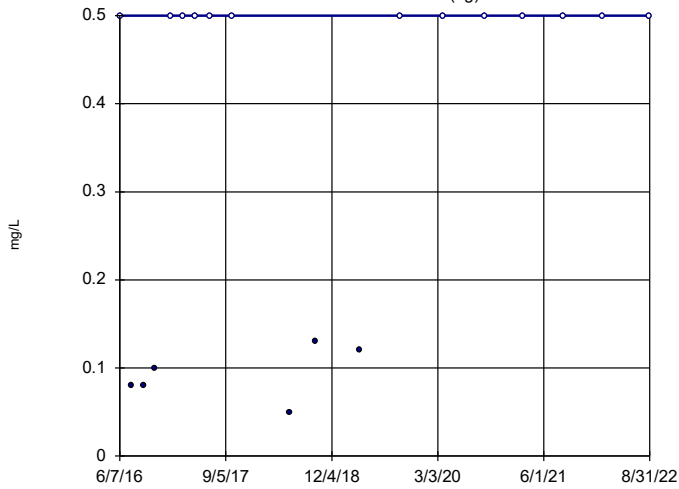
Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-18S (bg)



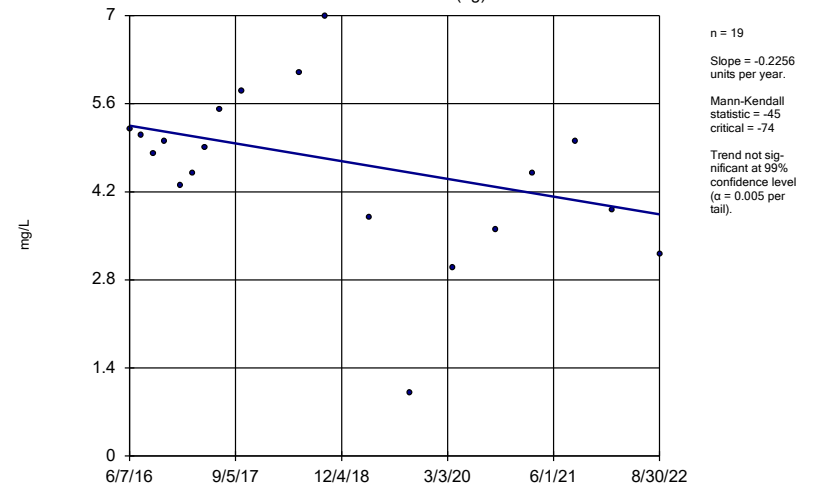
Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

Sen's Slope Estimator  
YGWA-20S (bg)



Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

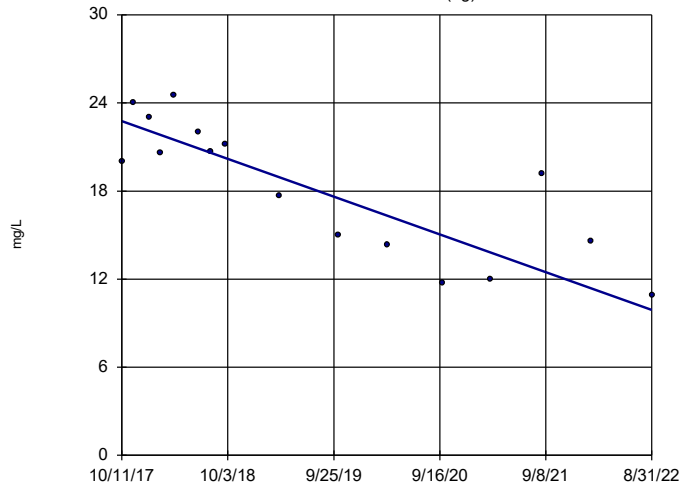
Sen's Slope Estimator  
YGWA-21I (bg)



Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-39 (bg)

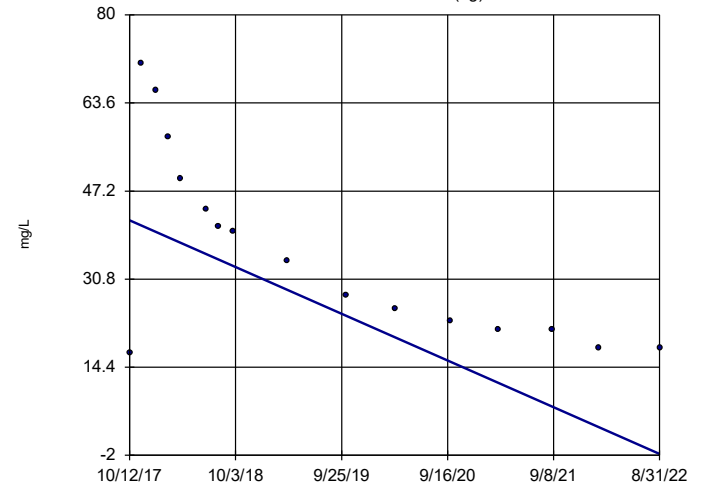


n = 16  
 Slope = -2.631  
 units per year.  
 Mann-Kendall  
 statistic = -74  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-40 (bg)

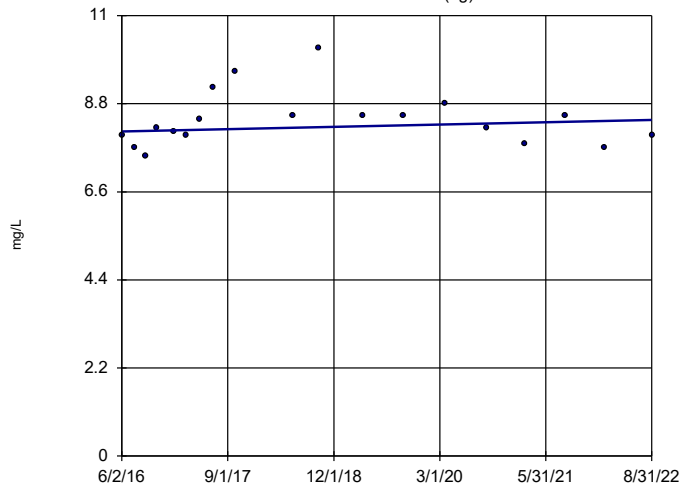


n = 16  
 Slope = -8.899  
 units per year.  
 Mann-Kendall  
 statistic = -89  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-41 (bg)

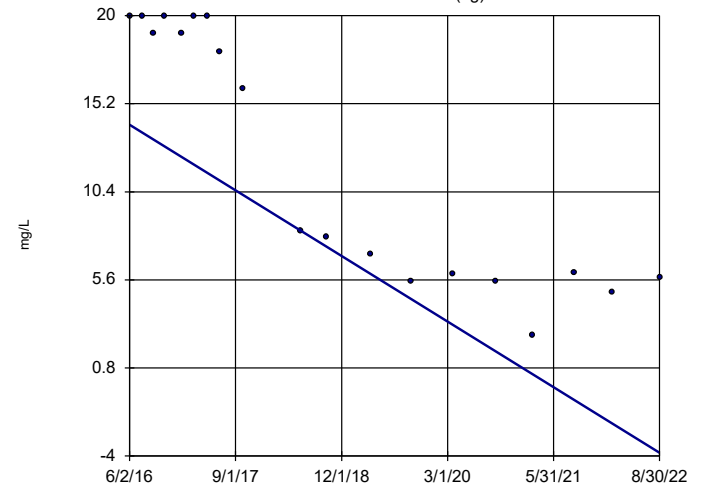


n = 19  
 Slope = 0.04641  
 units per year.  
 Mann-Kendall  
 statistic = 22  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5D (bg)

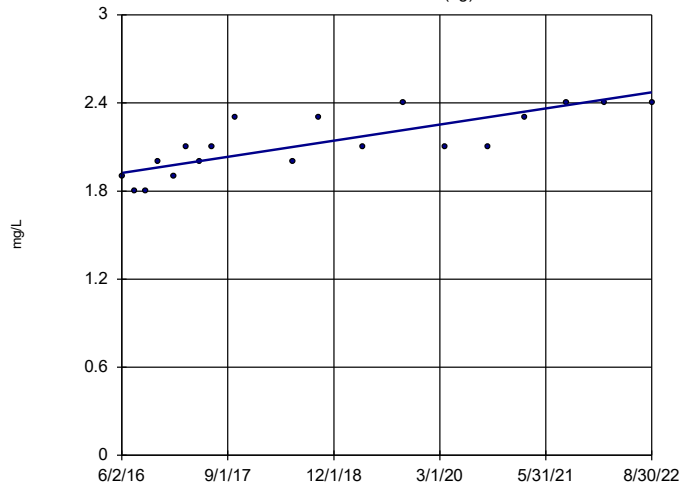


n = 19  
 Slope = -2.862  
 units per year.  
 Mann-Kendall  
 statistic = -129  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5I (bg)

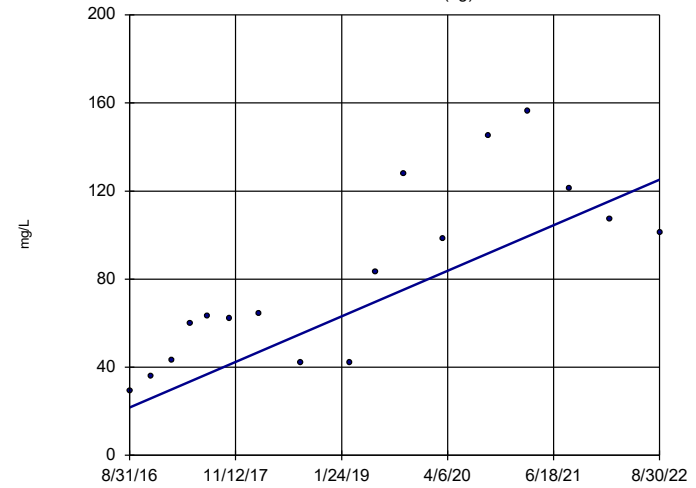


n = 19  
 Slope = 0.08795  
 units per year.  
 Mann-Kendall  
 statistic = 115  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

GWA-2 (bg)

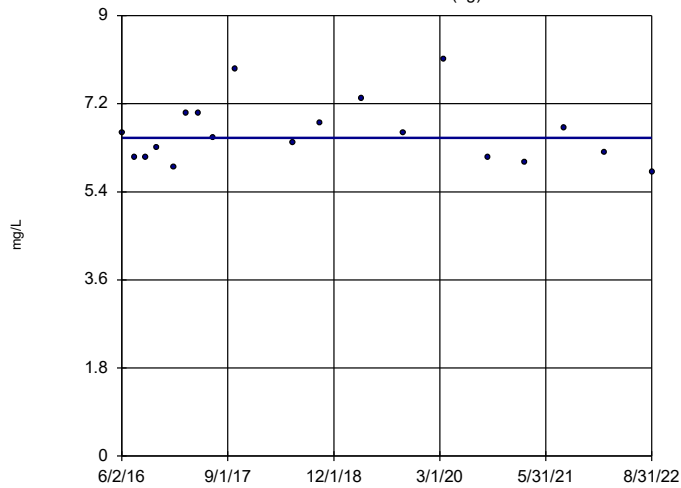


n = 17  
 Slope = 17.26  
 units per year.  
 Mann-Kendall  
 statistic = 87  
 critical = 63  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-14S (bg)

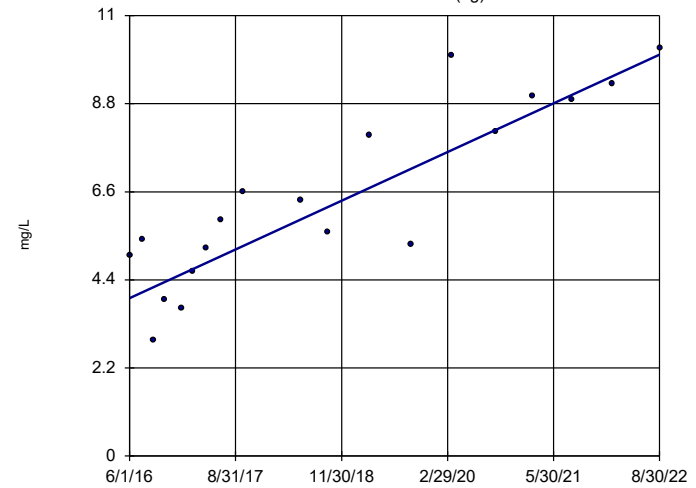


n = 19  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -4  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-1D (bg)



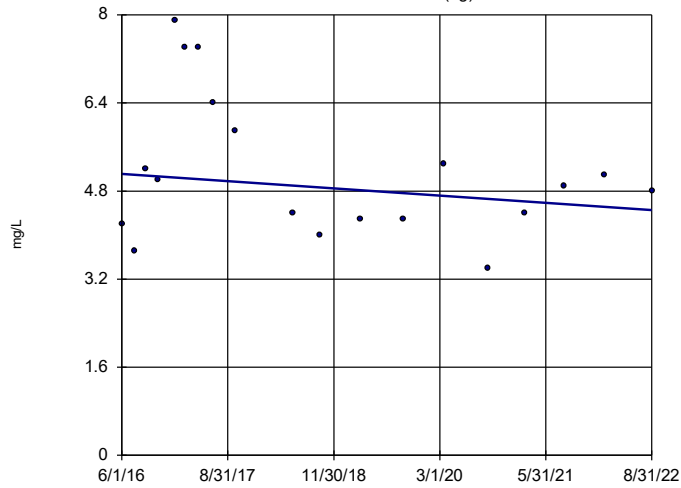
n = 19  
 Slope = 0.9733  
 units per year.  
 Mann-Kendall  
 statistic = 121  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1



### Sen's Slope Estimator

YGWA-11 (bg)

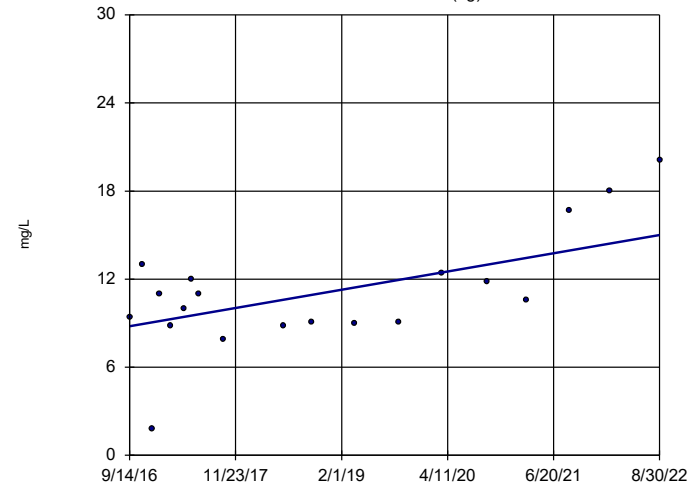


n = 19  
 Slope = -0.1053  
 units per year.  
 Mann-Kendall  
 statistic = -22  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-2I (bg)

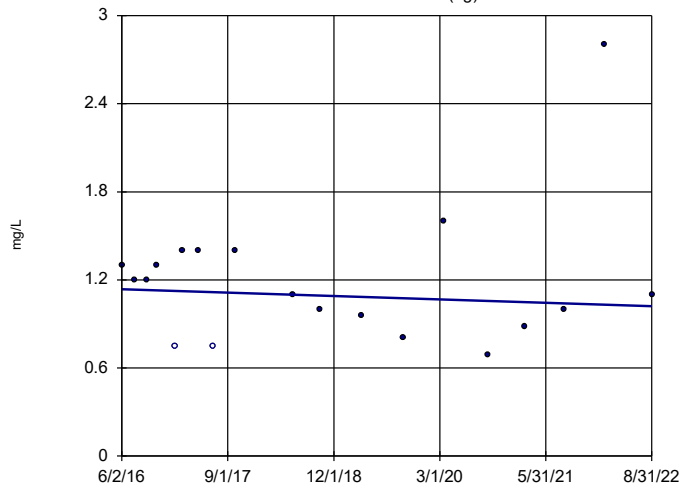


n = 19  
 Slope = 1.041  
 units per year.  
 Mann-Kendall  
 statistic = 62  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-30I (bg)

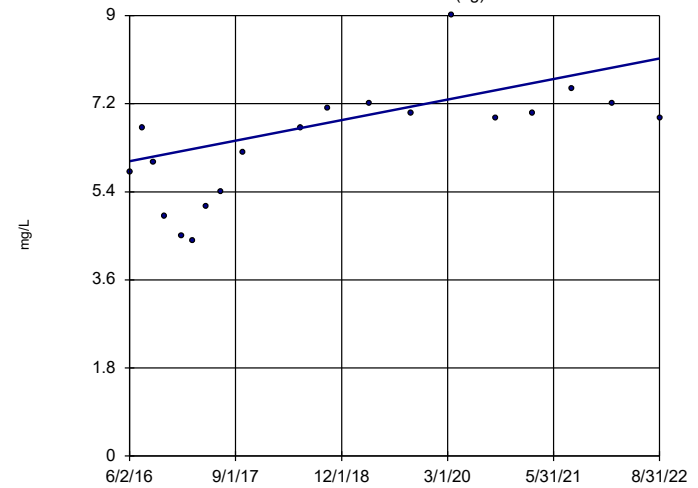


n = 19  
 Slope = -0.01853  
 units per year.  
 Mann-Kendall  
 statistic = -15  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-3D (bg)

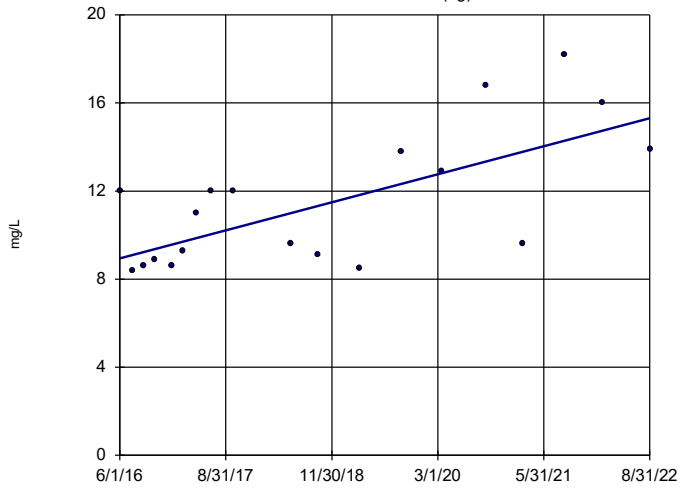


n = 19  
 Slope = 0.3364  
 units per year.  
 Mann-Kendall  
 statistic = 89  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-31 (bg)

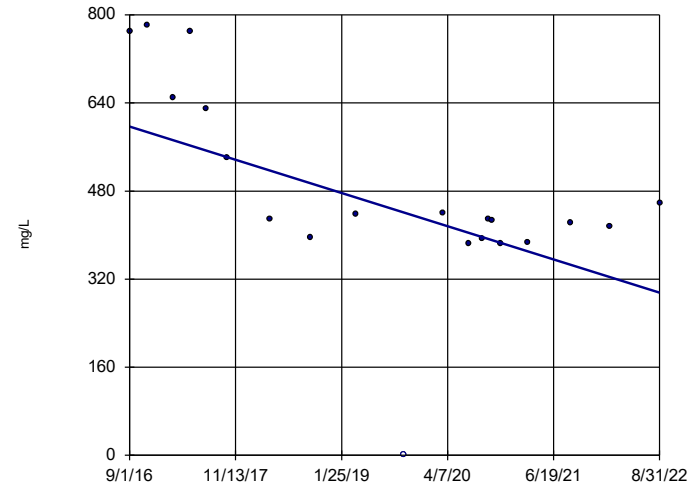


n = 19  
 Slope = 1.016  
 units per year.  
 Mann-Kendall  
 statistic = 86  
 critical = 74  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWC-46A

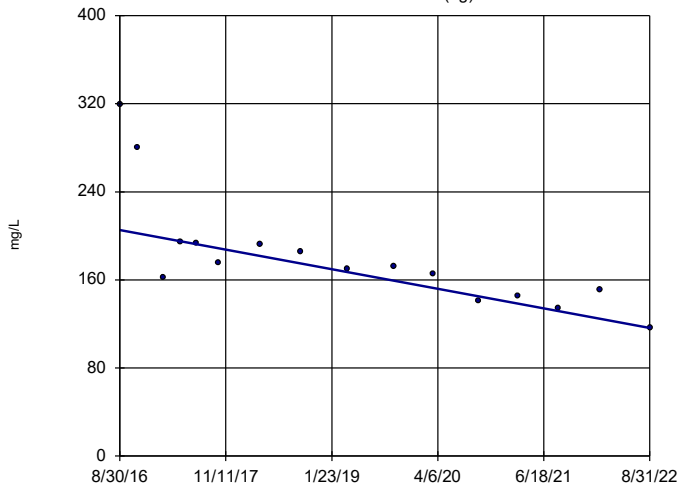


n = 20  
 Slope = -50.31  
 units per year.  
 Mann-Kendall  
 statistic = -91  
 critical = -81  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Sulfate as SO4 Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tests  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-47 (bg)

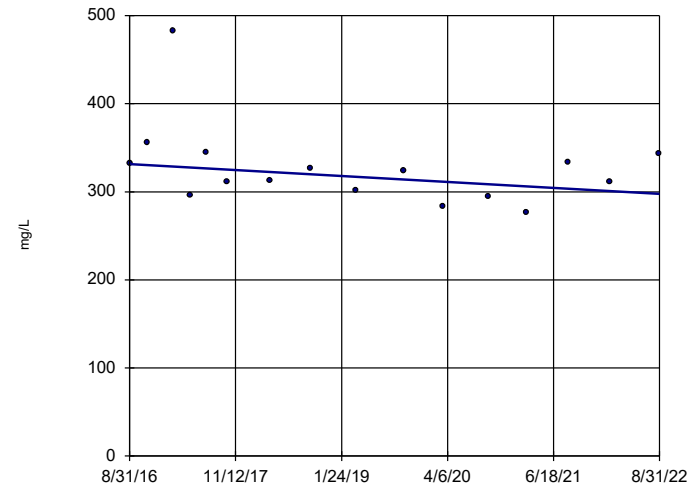


n = 16  
 Slope = -14.82  
 units per year.  
 Mann-Kendall  
 statistic = -90  
 critical = -58  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

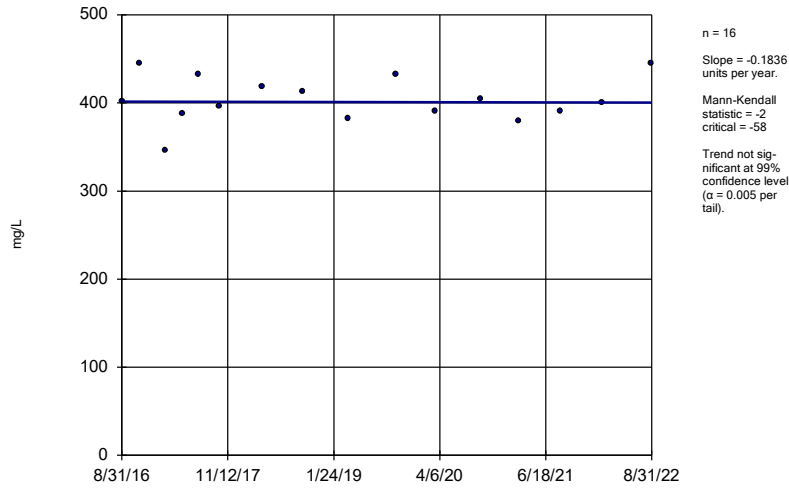
YGWC-44



n = 16  
 Slope = -5.653  
 units per year.  
 Mann-Kendall  
 statistic = -31  
 critical = -58  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

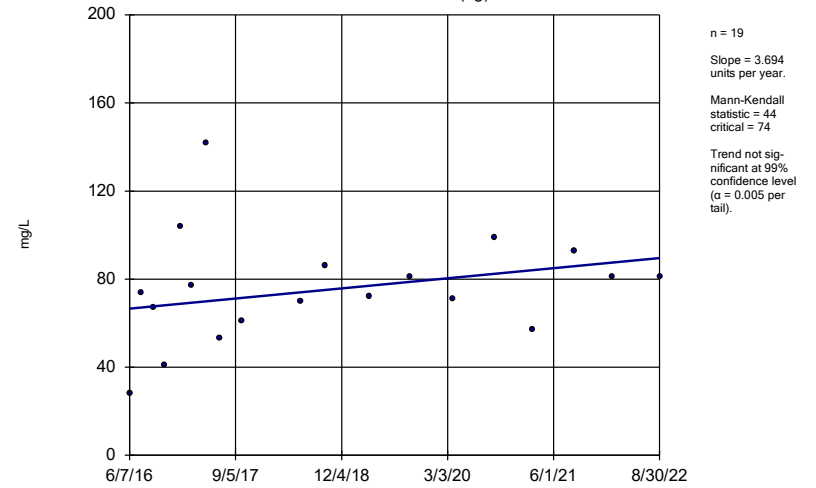
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator YGWC-45



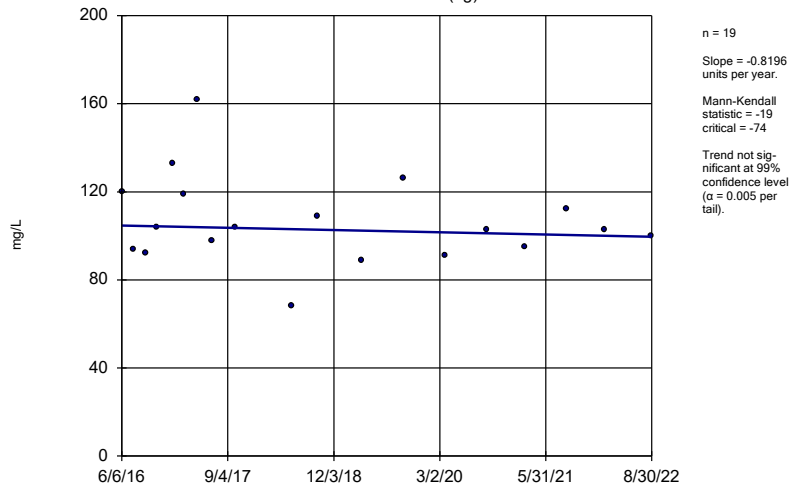
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator YGWA-17S (bg)



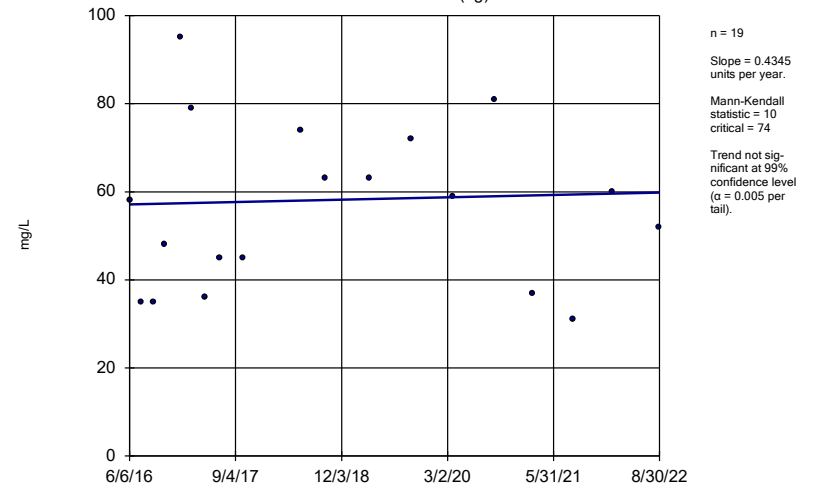
Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator YGWA-18I (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

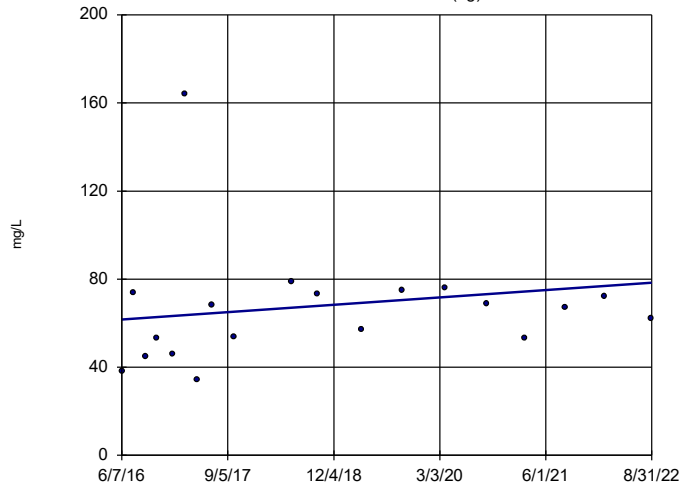
### Sen's Slope Estimator YGWA-18S (bg)



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-20S (bg)

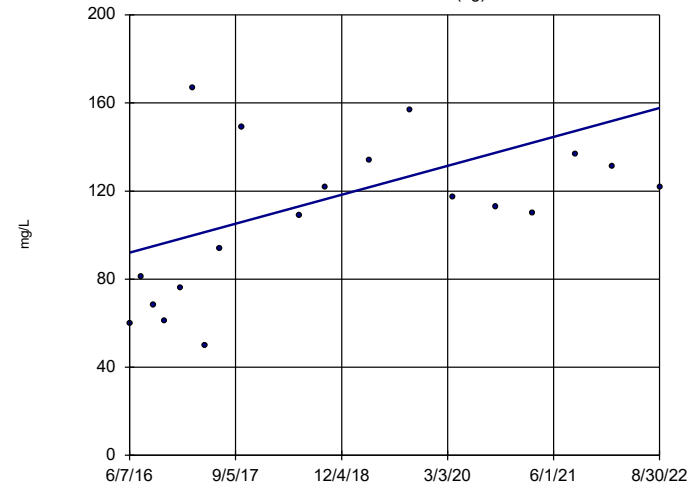


n = 19  
 Slope = 2.688  
 units per year.  
 Mann-Kendall  
 statistic = 34  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-211 (bg)

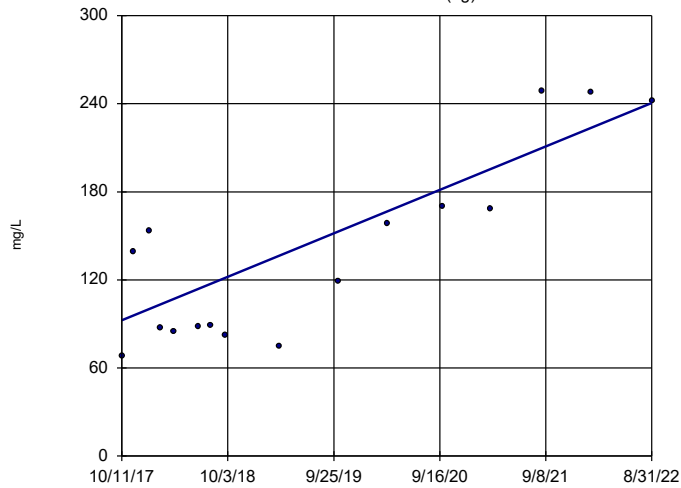


n = 19  
 Slope = 10.54  
 units per year.  
 Mann-Kendall  
 statistic = 68  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-39 (bg)

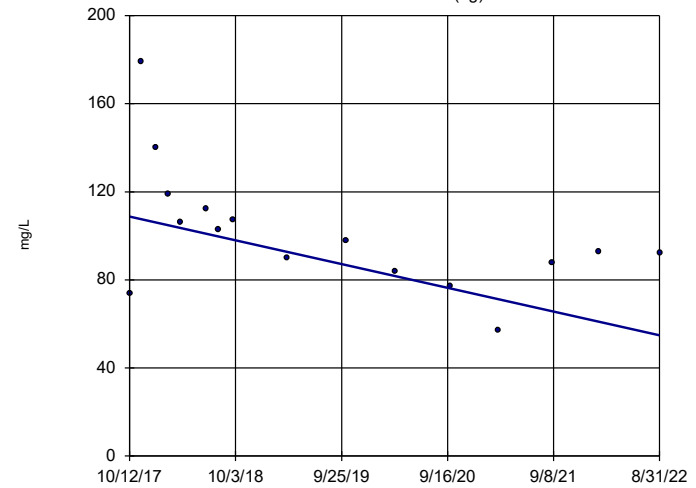


n = 16  
 Slope = 30.24  
 units per year.  
 Mann-Kendall  
 statistic = 64  
 critical = 58  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-40 (bg)

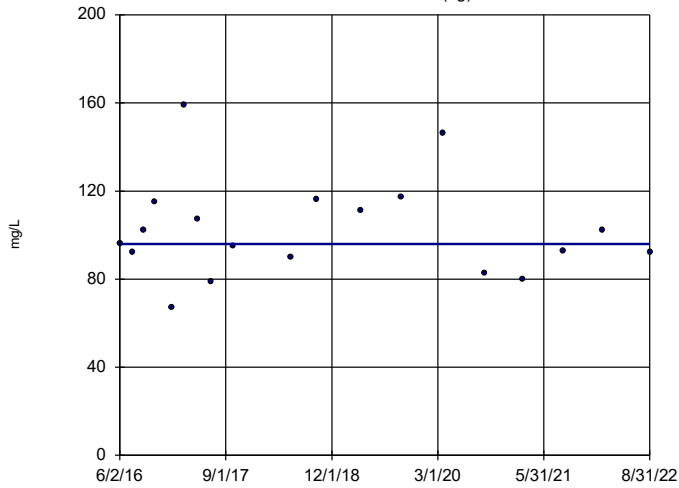


n = 16  
 Slope = -11.03  
 units per year.  
 Mann-Kendall  
 statistic = -58  
 critical = -58  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-4I (bg)

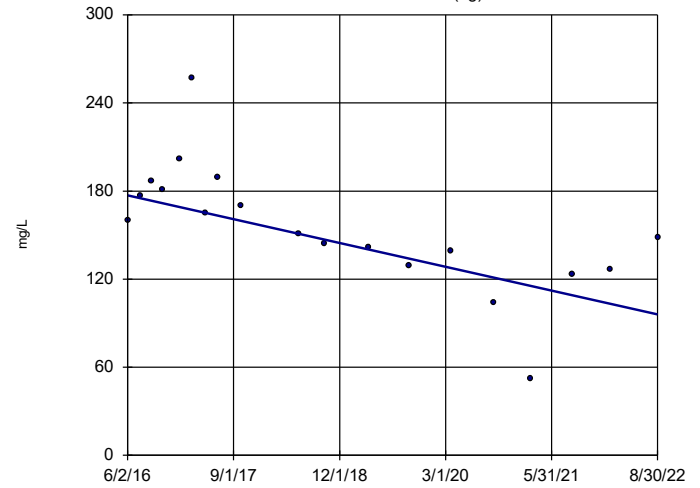


n = 19  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = -1  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5D (bg)

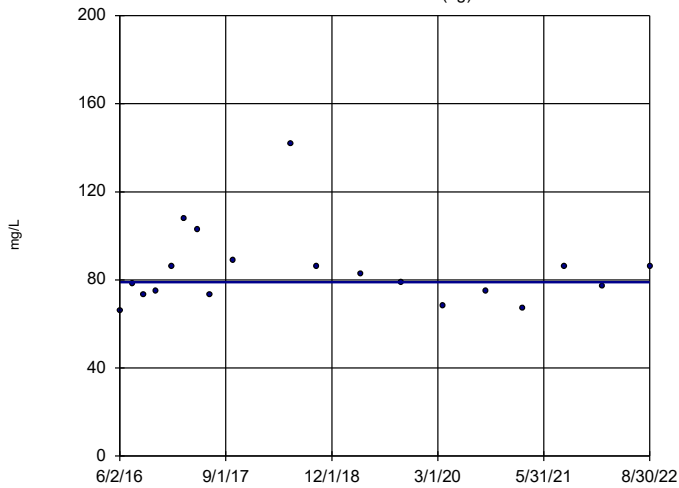


n = 19  
 Slope = -12.99  
 units per year.  
 Mann-Kendall  
 statistic = -.99  
 critical = -74  
 Decreasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-5I (bg)

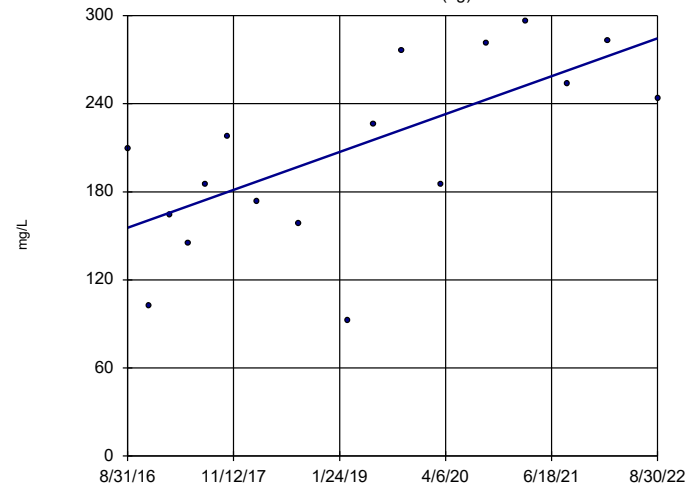


n = 19  
 Slope = 0  
 units per year.  
 Mann-Kendall  
 statistic = 3  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

GWA-2 (bg)

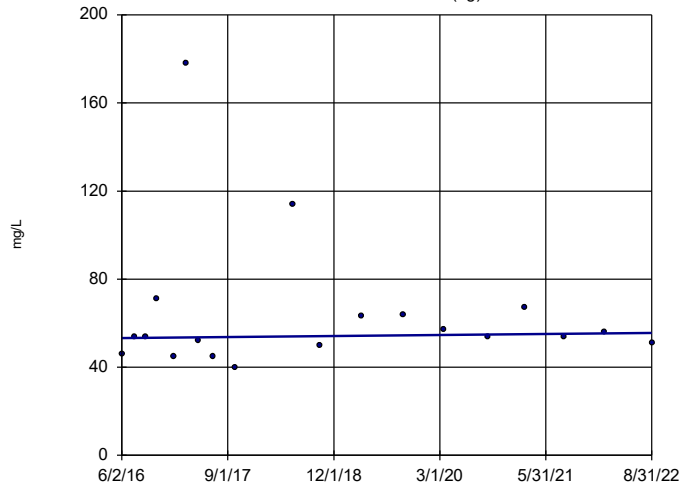


n = 17  
 Slope = 21.5  
 units per year.  
 Mann-Kendall  
 statistic = 67  
 critical = 63  
 Increasing trend  
 significant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-14S (bg)

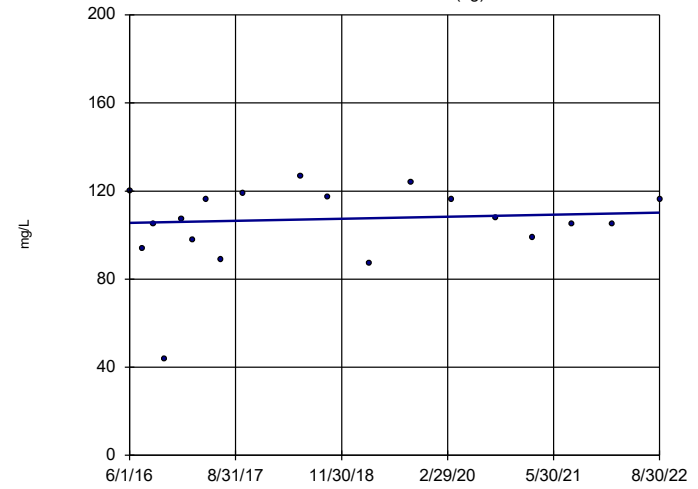


n = 19  
 Slope = 0.3698  
 units per year.  
 Mann-Kendall  
 statistic = 12  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-1D (bg)

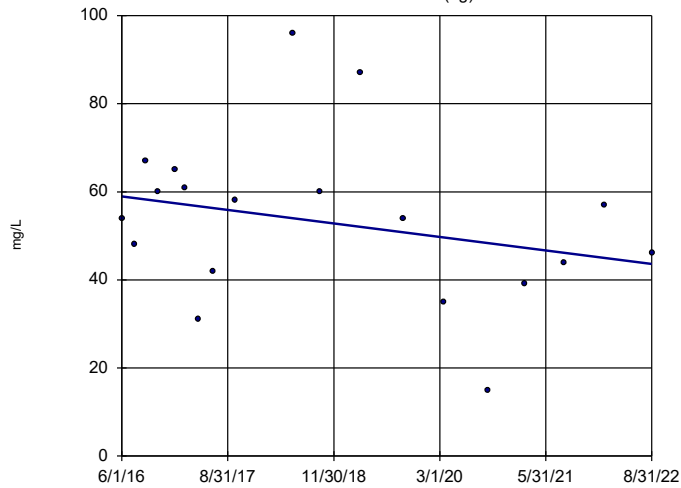


n = 19  
 Slope = 0.7444  
 units per year.  
 Mann-Kendall  
 statistic = 13  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-11 (bg)

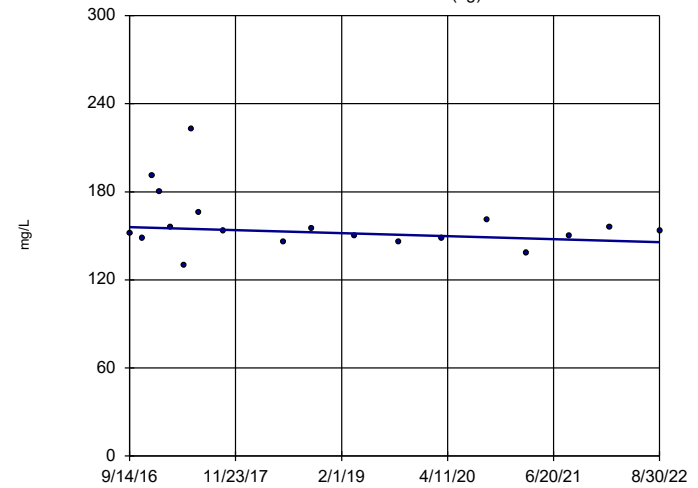


n = 19  
 Slope = -2.443  
 units per year.  
 Mann-Kendall  
 statistic = -37  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-2I (bg)

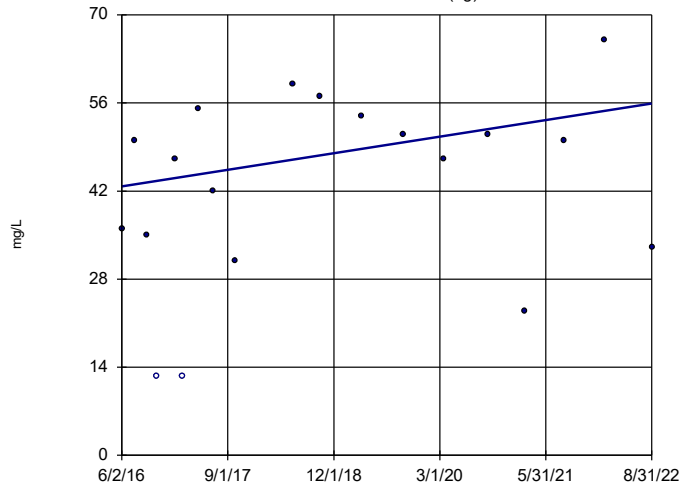


n = 19  
 Slope = -1.72  
 units per year.  
 Mann-Kendall  
 statistic = -28  
 critical = -74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 (α = 0.005 per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-30I (bg)

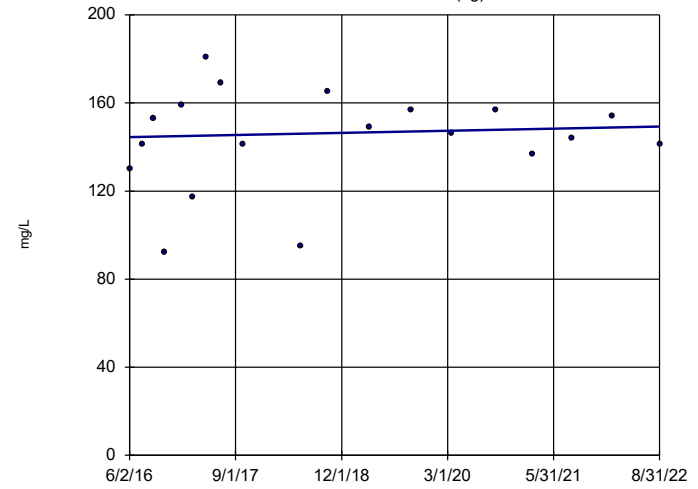


n = 19  
 Slope = 2.114  
 units per year.  
 Mann-Kendall  
 statistic = 27  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-3D (bg)

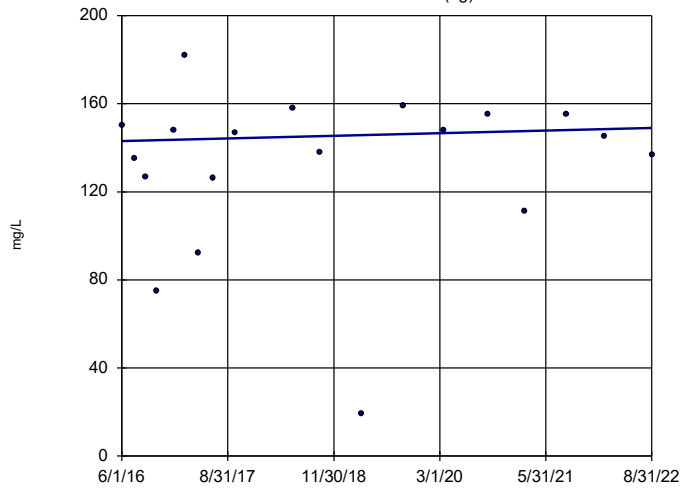


n = 19  
 Slope = 0.7739  
 units per year.  
 Mann-Kendall  
 statistic = 9  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

YGWA-3I (bg)

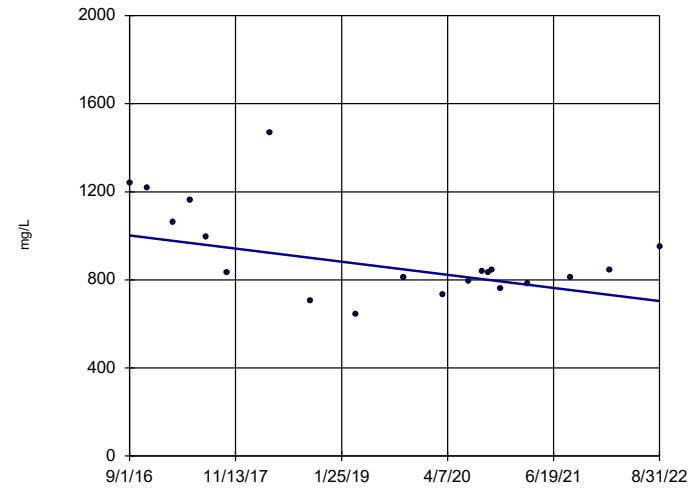


n = 19  
 Slope = 0.954  
 units per year.  
 Mann-Kendall  
 statistic = 9  
 critical = 74  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator

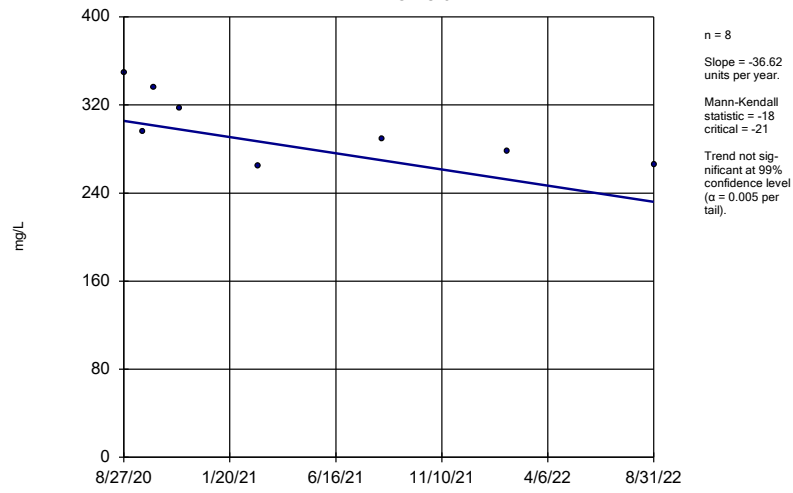
YGWC-46A



n = 20  
 Slope = -49.58  
 units per year.  
 Mann-Kendall  
 statistic = -46  
 critical = -81  
 Trend not sig-  
 nificant at 99%  
 confidence level  
 ( $\alpha = 0.005$  per  
 tail).

Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Sen's Slope Estimator YGWC-52



Constituent: Total Dissolved Solids [TDS] Analysis Run 10/6/2022 5:03 PM View: Appendix III - Trend Tes  
Plant Yates Client: Southern Company Data: Yates Ash Pond1



FIGURE F.

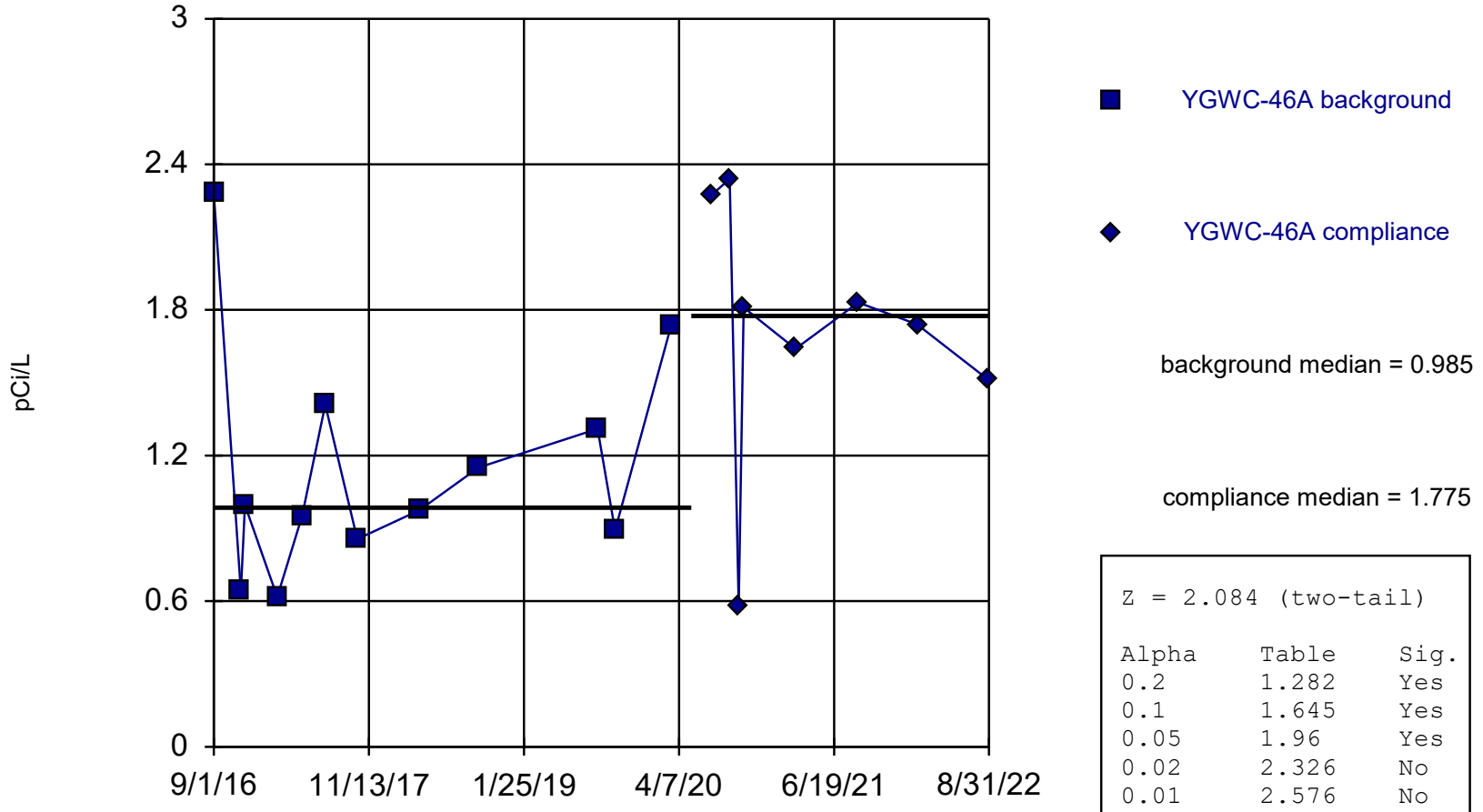
# Welch's t-test/Mann-Whitney - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond1 Printed 10/7/2022, 9:30 AM

<u>Constituent</u>	<u>Well</u>	<u>Calc.</u>	<u>0.01</u>	<u>Method</u>
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	2.084	No	Mann-W

## Mann-Whitney (Wilcoxon Rank Sum)

### YGWC-46A



Constituent: Combined Radium 226 + 228    Analysis Run 10/7/2022 9:30 AM    View: Mann-Whitney  
 Plant Yates    Client: Southern Company    Data: Yates Ash Pond1

# Mann-Whitney (Wilcoxon Rank Sum)

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/7/2022 9:30 AM View: Mann-Whitney

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWC-46A	YGWC-46A
9/1/2016	2.28	
11/16/2016	0.639 (U)	
11/28/2016	0.996	
2/27/2017	0.617 (U)	
5/8/2017	0.949	
7/13/2017	1.41	
10/11/2017	0.856 (U)	
4/4/2018	0.974	
9/19/2018	1.15 (U)	
8/21/2019	1.31	
10/9/2019	0.892 (U)	
3/17/2020	1.74	
7/6/2020		2.27
8/28/2020		2.34
9/23/2020		0.575 (U)
10/7/2020		1.81
3/2/2021		1.64
8/27/2021		1.83
2/9/2022		1.74
8/31/2022		1.51

FIGURE G.

# Upper Tolerance Limit Summary Table

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/6/2022, 5:00 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	n/a	0.0047	n/a	n/a	n/a	n/a	372	n/a	n/a	87.63	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	420	n/a	n/a	74.76	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	n/a	0.071	n/a	n/a	n/a	n/a	420	n/a	n/a	2.619	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0005	n/a	n/a	n/a	n/a	404	n/a	n/a	80.2	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.00063	n/a	n/a	n/a	n/a	404	n/a	n/a	95.54	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	n/a	0.0093	n/a	n/a	n/a	n/a	372	n/a	n/a	80.11	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	414	n/a	n/a	69.32	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	399	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride, total (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	419	n/a	n/a	65.63	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	n/a	0.0013	n/a	n/a	n/a	n/a	374	n/a	n/a	85.29	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	n/a	0.03	n/a	n/a	n/a	n/a	399	n/a	n/a	26.32	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	n/a	0.00064	n/a	n/a	n/a	n/a	328	n/a	n/a	93.29	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	363	n/a	n/a	60.33	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	n/a	0.005	n/a	n/a	n/a	n/a	402	n/a	n/a	92.29	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	n/a	0.001	n/a	n/a	n/a	n/a	338	n/a	n/a	97.04	n/a	n/a	NaN	NP Inter(NDs)

FIGURE H.

<b>YATES ASH POND 1 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		0.071	2
Beryllium, Total (mg/L)	0.004		0.0005	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*\*Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

*\*MCL = Maximum Contaminant Level*

*\*CCR = Coal Combustion Residual*

*\*GWPS = Groundwater Protection Standard*

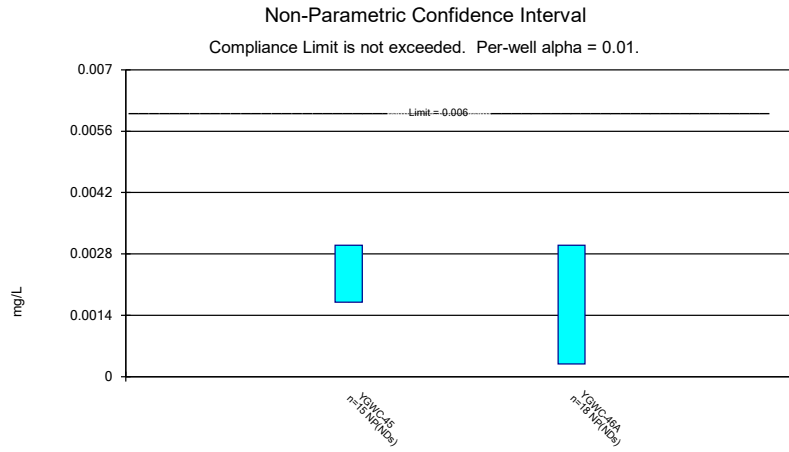


FIGURE I.

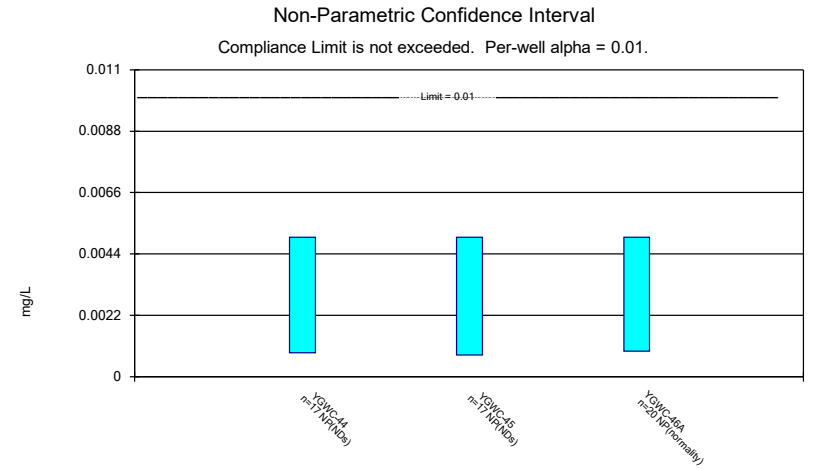
# Confidence Intervals - All Results (No Significant)

Plant Yates    Client: Southern Company    Data: Yates Ash Pond1    Printed 10/7/2022, 9:42 AM

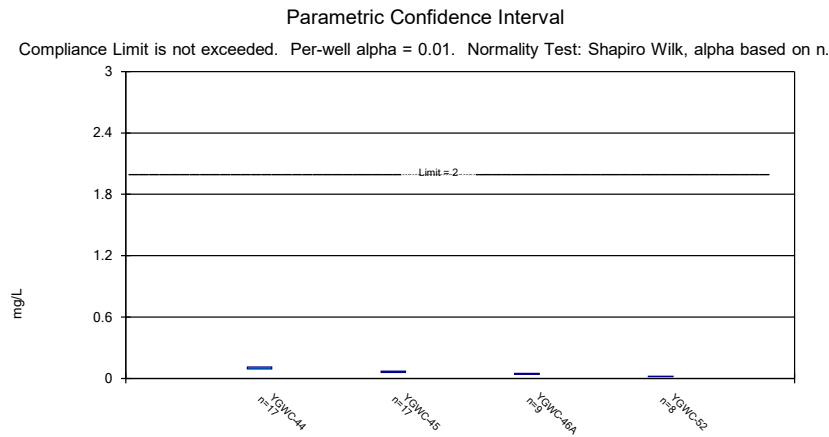
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Lower Compl.	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-45	0.003	0.0017	0.006	n/a	No	15	0.002913	0.0003357	93.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-46A	0.003	0.00029	0.006	n/a	No	18	0.002849	0.0006388	94.44	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-44	0.005	0.00086	0.01	n/a	No	17	0.003743	0.00201	70.59	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-45	0.005	0.00078	0.01	n/a	No	17	0.003983	0.00189	76.47	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-46A	0.005	0.00091	0.01	n/a	No	20	0.002505	0.001908	35	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-44	0.1127	0.09274	2	n/a	No	17	0.1027	0.01591	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-45	0.06973	0.05704	2	n/a	No	17	0.06338	0.01013	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-46A	0.04742	0.03969	2	n/a	No	9	0.04356	0.004003	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-52	0.02056	0.01769	2	n/a	No	8	0.01913	0.001356	0	None	No	0.01	Param.
Cadmium (mg/L)	YGWC-46A	0.0005	0.00012	0.005	n/a	No	17	0.0004318	0.000152	82.35	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-45	0.0061	0.0006	0.1	n/a	No	15	0.004485	0.001607	80	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-52	0.005	0.00073	0.1	n/a	No	8	0.002966	0.002178	50	None	No	0.004	NP (normality)
Cobalt (mg/L)	YGWC-44	0.003716	0.001775	0.035	n/a	No	17	0.003129	0.002594	5.882	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-45	0.0008355	0.0006283	0.035	n/a	No	16	0.0007319	0.0001593	0	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-46A	0.002855	0.0006349	0.035	n/a	No	9	0.001736	0.001315	0	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-52	0.001998	0.001142	0.035	n/a	No	8	0.00157	0.000404	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-44	0.945	0.2735	6.92	n/a	No	17	0.6797	0.6197	0	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-45	1.486	0.9125	6.92	n/a	No	17	1.199	0.4576	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-46A	1.698	1.055	6.92	n/a	No	20	1.376	0.5668	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-52	0.9369	0.302	6.92	n/a	No	7	0.647	0.2772	0	None	x^2	0.01	Param.
Fluoride, total (mg/L)	YGWC-44	0.12	0.07	4	n/a	No	18	0.09361	0.01908	77.78	None	No	0.01	NP (NDs)
Fluoride, total (mg/L)	YGWC-45	0.2	0.075	4	n/a	No	18	0.1588	0.1589	22.22	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	YGWC-46A	0.12	0.084	4	n/a	No	21	0.1109	0.06364	23.81	None	No	0.01	NP (normality)
Fluoride, total (mg/L)	YGWC-52	0.1	0.059	4	n/a	No	8	0.09488	0.0145	87.5	None	No	0.004	NP (NDs)
Lead (mg/L)	YGWC-45	0.001	0.0001	0.015	n/a	No	15	0.00094	0.0002324	93.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-46A	0.001	0.000044	0.015	n/a	No	18	0.0009469	0.0002253	94.44	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-52	0.001	0.00006	0.015	n/a	No	8	0.0005379	0.0004941	50	None	No	0.004	NP (normality)
Lithium (mg/L)	YGWC-44	0.01347	0.01249	0.04	n/a	No	17	0.01298	0.0007798	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-45	0.0147	0.012	0.04	n/a	No	17	0.01313	0.001551	0	None	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-46A	0.01437	0.01163	0.04	n/a	No	9	0.013	0.001414	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-52	0.004649	0.003951	0.04	n/a	No	8	0.0043	0.0003295	0	None	No	0.01	Param.
Mercury (mg/L)	YGWC-44	0.0002	0.00006	0.002	n/a	No	13	0.0001892	0.00003883	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-45	0.0002	0.000071	0.002	n/a	No	13	0.0001901	0.00003578	92.31	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-46A	0.0002	0.00007	0.002	n/a	No	15	0.0001913	0.00003357	93.33	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-44	0.01	0.0005	0.1	n/a	No	17	0.009441	0.002304	94.12	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-45	0.0024	0.0011	0.1	n/a	No	17	0.002924	0.003392	17.65	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-46A	0.003669	0.001669	0.1	n/a	No	20	0.00325	0.002986	15	None	ln(x)	0.01	Param.
Thallium (mg/L)	YGWC-44	0.001	0.00008	0.002	n/a	No	15	0.0009387	0.0002375	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-46A	0.001	0.000073	0.002	n/a	No	17	0.0009455	0.0002248	94.12	None	No	0.01	NP (NDs)



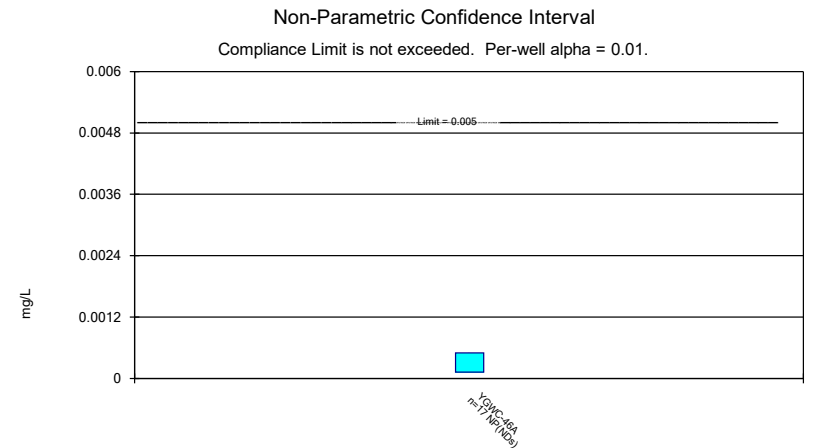
Constituent: Antimony Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1



Constituent: Arsenic Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1



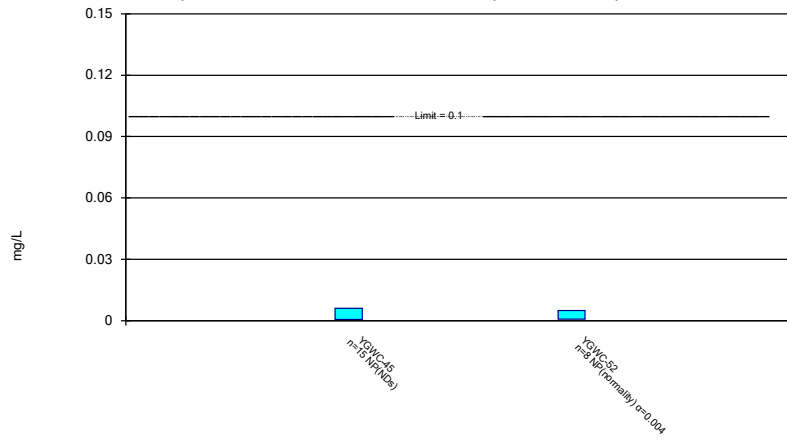
Constituent: Barium Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1



Constituent: Cadmium Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
 Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

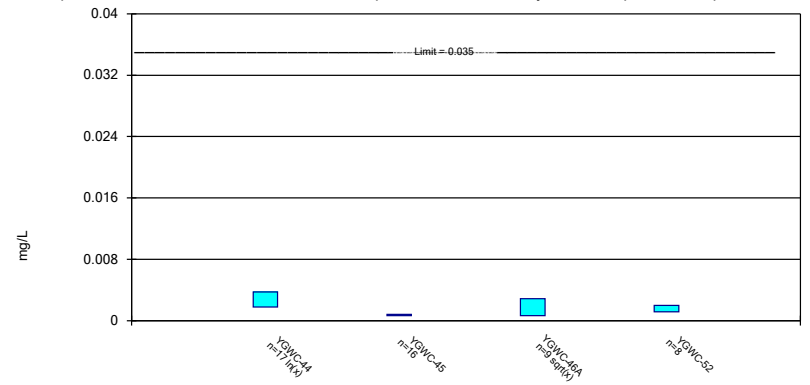
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Chromium Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Parametric Confidence Interval

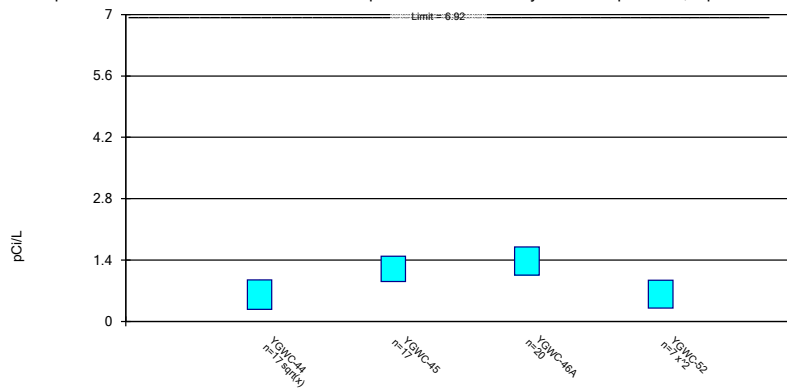
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Parametric Confidence Interval

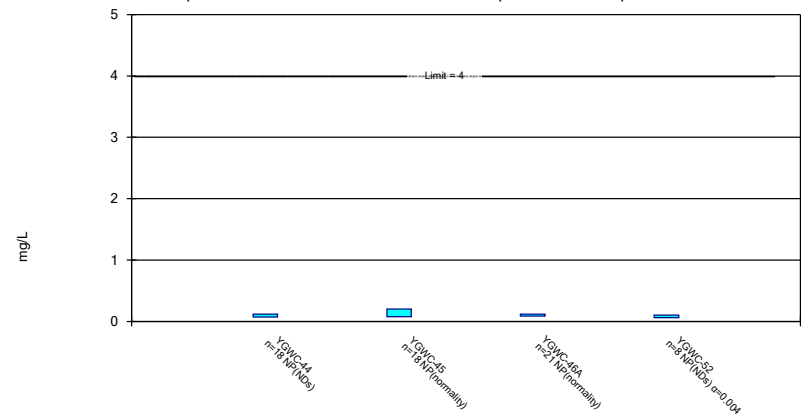
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confiden  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

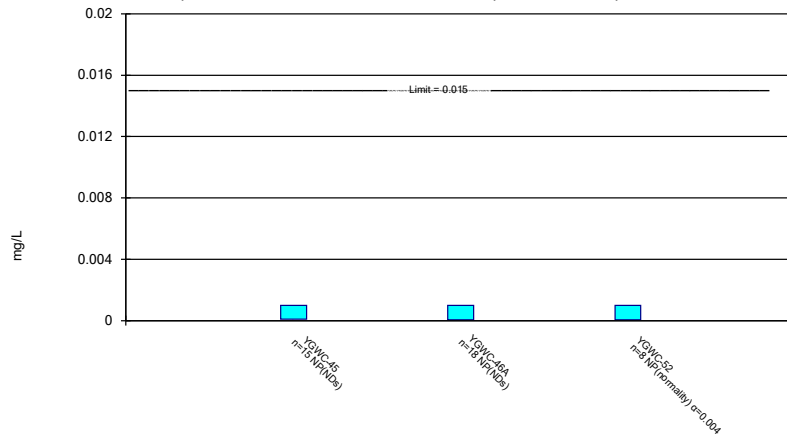
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Fluoride, total Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

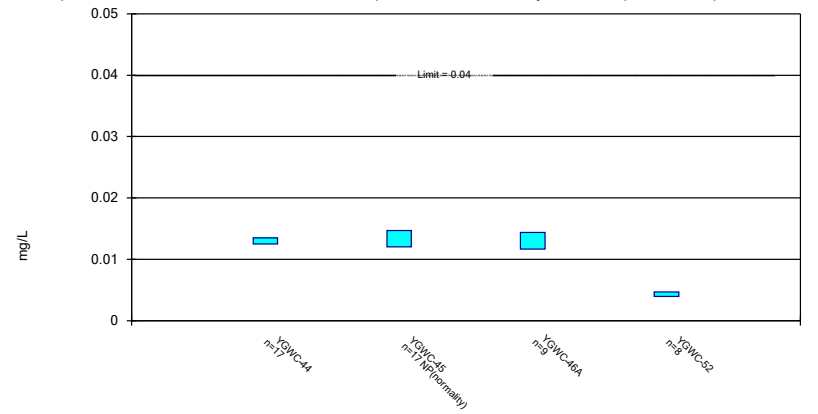
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted.



Constituent: Lead Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Parametric and Non-Parametric (NP) Confidence Interval

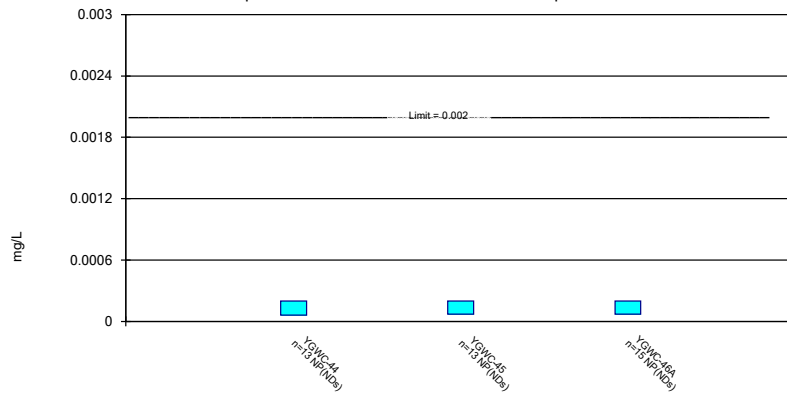
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

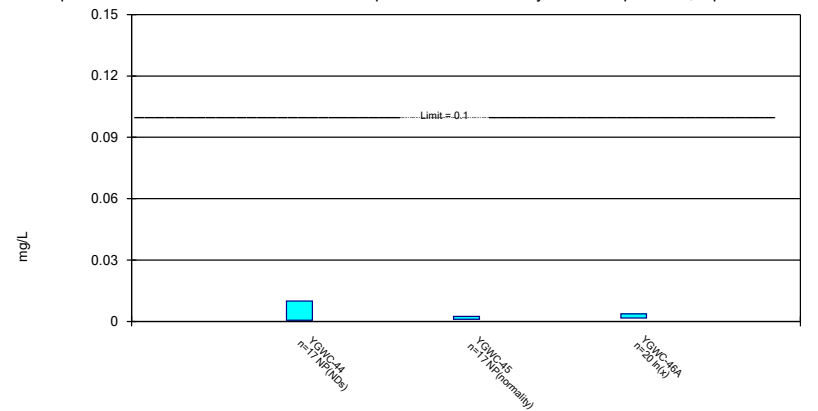
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Parametric and Non-Parametric (NP) Confidence Interval

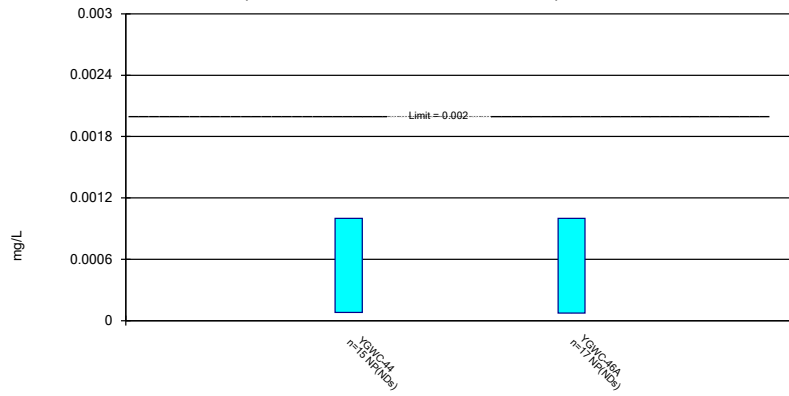
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Molybdenum Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

### Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 10/7/2022 9:41 AM View: Appendix IV - Confidence Intervals  
Plant Yates Client: Southern Company Data: Yates Ash Pond1

# Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWC-45	YGWC-46A
8/31/2016	<0.003	
9/1/2016		<0.003
11/14/2016	<0.003	
11/16/2016		<0.003
2/27/2017	<0.003	<0.003
5/8/2017		<0.003
5/9/2017	<0.003	
7/13/2017	<0.003	<0.003
10/10/2017	<0.003	
10/11/2017		<0.003
4/3/2018	<0.003	
4/4/2018		<0.003
9/19/2018	<0.003	<0.003
8/20/2019	<0.003	
8/21/2019		<0.003
7/6/2020		<0.003
8/28/2020	0.0017 (J)	0.00029 (J)
9/23/2020	<0.003	<0.003
10/7/2020		<0.003
11/12/2020		<0.003
3/1/2021	<0.003	
3/2/2021		<0.003
8/19/2021	<0.003	
8/27/2021		<0.003
2/9/2022	<0.003	<0.003
8/31/2022	<0.003	<0.003
Mean	0.002913	0.002849
Std. Dev.	0.0003357	0.0006388
Upper Lim.	0.003	0.003
Lower Lim.	0.0017	0.00029

# Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.005	<0.005	
9/1/2016			<0.005
11/14/2016		<0.005	
11/15/2016	<0.005		
11/16/2016			<0.005
2/27/2017		<0.005	<0.005
2/28/2017	0.0005 (J)		
5/8/2017	0.0006 (J)		0.0007 (J)
5/9/2017		<0.005	
7/13/2017	<0.005	<0.005	0.0011 (J)
10/10/2017	0.0007 (J)	0.0006 (J)	
10/11/2017			0.0011 (J)
4/3/2018		0.00061 (J)	
4/4/2018	<0.005		0.00087 (J)
9/19/2018	0.00086 (J)	0.00072 (J)	0.0012 (J)
8/20/2019	0.00097 (J)	0.00078 (J)	
8/21/2019			0.00074 (J)
10/8/2019	<0.005		
10/9/2019		<0.005	<0.005
3/17/2020	<0.005	<0.005	<0.005
7/6/2020			0.00079 (J)
8/27/2020	<0.005		
8/28/2020		<0.005	0.0015 (J)
9/22/2020	<0.005		
9/23/2020		<0.005	0.00091 (J)
10/7/2020			0.001 (J)
11/12/2020			0.0014 (J)
3/1/2021	<0.005	<0.005	
3/2/2021			0.0016 (J)
8/19/2021	<0.005	<0.005	
8/27/2021			0.0022 (J)
2/9/2022	<0.005	<0.005	<0.005
8/31/2022	<0.005	<0.005	<0.005
Mean	0.003743	0.003983	0.002505
Std. Dev.	0.00201	0.00189	0.001908
Upper Lim.	0.005	0.005	0.005
Lower Lim.	0.00086	0.00078	0.00091



# Confidence Interval

Constituent: Barium (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.126	0.0754		
9/1/2016			0.0414	
11/14/2016		0.0701		
11/15/2016	0.115			
11/16/2016			0.0365	
2/27/2017		0.0834	0.0326	
2/28/2017	0.121			
5/8/2017	0.125		0.0332	
5/9/2017		0.0779		
7/13/2017	0.106	0.0719	0.0365	
10/10/2017	0.112	0.0708		
10/11/2017			0.0288	
4/3/2018		0.068		
4/4/2018	0.12		0.025	
9/19/2018	0.11	0.064	0.03	
8/20/2019	0.1	0.057		
8/21/2019			0.023	
10/8/2019	0.098			
10/9/2019		0.058	0.024	
3/17/2020	0.099	0.061	0.022	
7/6/2020			0.048	
8/27/2020	0.086			0.021
8/28/2020		0.053	0.05	
9/22/2020	0.096			0.021
9/23/2020		0.052	0.045	
10/7/2020			0.042	0.019
11/12/2020			0.042	0.019
3/1/2021	0.087	0.055		0.019
3/2/2021			0.044	
8/19/2021	0.089	0.055		
8/20/2021				0.019
8/27/2021			0.043	
2/9/2022	0.083	0.053	0.042	0.018
8/31/2022	0.073	0.052	0.036	0.017
Mean	0.1027	0.06338	0.04356	0.01913
Std. Dev.	0.01591	0.01013	0.004003	0.001356
Upper Lim.	0.1127	0.06973	0.04742	0.02056
Lower Lim.	0.09274	0.05704	0.03969	0.01769

# Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

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	YGWC-46A
9/1/2016	<0.0005
11/16/2016	<0.0005
2/27/2017	<0.0005
5/8/2017	0.0001 (J)
7/13/2017	<0.0005
10/11/2017	<0.0005
4/4/2018	<0.0005
9/19/2018	<0.0005
8/21/2019	0.00012 (J)
10/9/2019	<0.0005
3/17/2020	0.00012 (J)
7/6/2020	<0.0005
8/28/2020	<0.0005
11/12/2020	<0.0005
8/27/2021	<0.0005
2/9/2022	<0.0005
8/31/2022	<0.0005
Mean	0.0004318
Std. Dev.	0.000152
Upper Lim.	0.0005
Lower Lim.	0.00012

# Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-45	YGWC-52
8/31/2016	<0.005	
11/14/2016	0.0061 (J)	
2/27/2017	<0.005	
5/9/2017	<0.005	
7/13/2017	0.0006 (J)	
10/10/2017	<0.005	
4/3/2018	<0.005	
9/19/2018	<0.005	
8/20/2019	<0.005	
8/27/2020		<0.005
8/28/2020	<0.005	
9/22/2020		0.00073 (J)
9/23/2020	0.00058 (J)	
10/7/2020		0.00086 (J)
11/12/2020		<0.005
3/1/2021	<0.005	0.00094 (J)
8/19/2021	<0.005	
8/20/2021		<0.005
2/9/2022	<0.005	0.0012 (J)
8/31/2022	<0.005	<0.005
Mean	0.004485	0.002966
Std. Dev.	0.001607	0.002178
Upper Lim.	0.0061	0.005
Lower Lim.	0.0006	0.00073

# Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.0119	0.0009 (J)		
9/1/2016			0.0171	
11/14/2016		0.0009 (J)		
11/15/2016	0.0033 (J)			
11/16/2016			0.0145	
2/27/2017		0.001 (J)	0.0161	
2/28/2017	0.0017 (J)			
5/8/2017	0.0018 (J)		0.0367	
5/9/2017		0.0008 (J)		
7/13/2017	0.0022 (J)	0.0009 (J)	0.0265	
10/10/2017	0.0017 (J)	0.0008 (J)		
10/11/2017			0.0556	
4/3/2018		<0.01 (O)		
4/4/2018	<0.005		0.025	
9/19/2018	0.0025 (J)	0.00081 (J)	0.042	
8/20/2019	0.002 (J)	0.00071 (J)		
8/21/2019			0.027	
10/8/2019	0.0017 (J)			
10/9/2019		0.0007 (J)	0.024	
3/17/2020	0.004 (J)	0.00081 (J)	0.022	
7/6/2020			0.0041 (J)	
8/27/2020	0.003 (J)			0.0022 (J)
8/28/2020		0.00055 (J)	0.0038 (J)	
9/22/2020	0.0065			0.0019 (J)
9/23/2020		0.00053 (J)	0.0015 (J)	
10/7/2020			0.0014 (J)	0.0019 (J)
11/12/2020			0.001 (J)	0.0015 (J)
3/1/2021	0.0033 (J)	0.00062 (J)		0.0013 (J)
3/2/2021			0.00096 (J)	
8/19/2021	0.0014 (J)	0.00048 (J)		
8/20/2021				0.0013 (J)
8/27/2021			0.00056 (J)	
2/9/2022	0.0027 (J)	0.00051 (J)	0.0006 (J)	0.0015 (J)
8/31/2022	0.00099 (J)	0.00069 (J)	0.0017 (J)	0.00096 (J)
Mean	0.003129	0.0007319	0.001736	0.00157
Std. Dev.	0.002594	0.0001593	0.001315	0.000404
Upper Lim.	0.003716	0.0008355	0.002855	0.001998
Lower Lim.	0.001775	0.0006283	0.0006349	0.001142

# Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	2.15	1.65		
9/1/2016			2.28	
11/14/2016		0.981 (U)		
11/15/2016	0.676 (U)			
11/16/2016			0.639 (U)	
11/28/2016			0.996	
2/27/2017		0.528 (U)	0.617 (U)	
2/28/2017	0.241 (U)			
5/8/2017	0.508 (U)		0.949	
5/9/2017		1.4		
7/13/2017	0.77 (U)	0.611 (U)	1.41	
10/10/2017	1.43	1.47		
10/11/2017			0.856 (U)	
4/3/2018		1.53		
4/4/2018	0.325 (U)		0.974	
9/19/2018	0.386 (U)	0.839 (U)	1.15 (U)	
8/20/2019	1.71	2.23		
8/21/2019			1.31	
10/8/2019	0.769 (U)			
10/9/2019		1.61	0.892 (U)	
3/17/2020	1.37	1.44	1.74	
7/6/2020			2.27	
8/27/2020	0.0859 (U)			0.852 (U)
8/28/2020		0.983 (U)	2.34	
9/22/2020	0.327 (U)			0.268 (U)
9/23/2020		0.746 (U)	0.575 (U)	
10/7/2020			1.81	0.819 (U)
3/1/2021	0.0694 (U)	1.28		0.846 (U)
3/2/2021			1.64	
8/19/2021	0.261 (U)	1.38		
8/20/2021				0.496 (U)
8/27/2021			1.83	
2/9/2022	0.332 (U)	1.11	1.74	0.926
8/31/2022	0.145 (U)	0.598 (U)	1.51	0.322 (U)
Mean	0.6797	1.199	1.376	0.647
Std. Dev.	0.6197	0.4576	0.5668	0.2772
Upper Lim.	0.945	1.486	1.698	0.9369
Lower Lim.	0.2735	0.9125	1.055	0.302

# Confidence Interval

Constituent: Fluoride, total (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.1	0.11 (J)		
9/1/2016			0.08 (J)	
11/14/2016		0.71		
11/15/2016	0.12 (J)			
11/16/2016			0.04 (J)	
2/27/2017		0.22 (J)	0.05 (J)	
2/28/2017	0.07 (J)			
5/8/2017	0.04 (J)		0.004 (J)	
5/9/2017		0.2 (J)		
7/13/2017	<0.1	0.11 (J)	0.35	
10/10/2017	<0.1	0.39		
10/11/2017			<0.1	
4/3/2018		<0.1		
4/4/2018	<0.1		<0.1	
9/19/2018	<0.1	<0.1	<0.1	
3/27/2019	<0.1	0.18 (J)	0.12 (J)	
8/20/2019	<0.1	<0.1		
8/21/2019			<0.1	
10/8/2019	<0.1			
10/9/2019		<0.1	0.12 (J)	
3/17/2020	<0.1	0.076 (J)	<0.1	
7/6/2020			0.12	
8/27/2020	<0.1			<0.1
8/28/2020		0.07 (J)	0.12	
9/22/2020	<0.1			<0.1
9/23/2020		0.082 (J)	0.12	
10/7/2020			0.13	<0.1
11/12/2020			0.084 (J)	<0.1
3/1/2021	<0.1	0.073 (J)		<0.1
3/2/2021			0.12	
8/19/2021	<0.1	0.075 (J)		
8/20/2021				<0.1
8/27/2021			0.13	
2/9/2022	<0.1	0.063 (J)	0.12	<0.1
8/31/2022	0.055 (J)	0.1	0.12	0.059 (J)
Mean	0.09361	0.1588	0.1109	0.09488
Std. Dev.	0.01908	0.1589	0.06364	0.0145
Upper Lim.	0.12	0.2	0.12	0.1
Lower Lim.	0.07	0.075	0.084	0.059

# Confidence Interval

Constituent: Lead (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	<0.001		
9/1/2016		<0.001	
11/14/2016	<0.001		
11/16/2016		<0.001	
2/27/2017	<0.001	<0.001	
5/8/2017		<0.001	
5/9/2017	0.0001 (J)		
7/13/2017	<0.001	<0.001	
10/10/2017	<0.001		
10/11/2017		<0.001	
4/3/2018	<0.001		
4/4/2018		<0.001	
9/19/2018	<0.001	<0.001	
8/20/2019	<0.001		
8/21/2019		<0.001	
7/6/2020		<0.001	
8/27/2020			9.2E-05 (J)
8/28/2020	<0.001	<0.001	
9/22/2020			6E-05 (J)
9/23/2020	<0.001	<0.001	
10/7/2020		<0.001	<0.001
11/12/2020		4.4E-05 (J)	6.4E-05 (J)
3/1/2021	<0.001		8.7E-05 (J)
3/2/2021		<0.001	
8/19/2021	<0.001		
8/20/2021			<0.001
8/27/2021		<0.001	
2/9/2022	<0.001	<0.001	<0.001
8/31/2022	<0.001	<0.001	<0.001
Mean	0.00094	0.0009469	0.0005379
Std. Dev.	0.0002324	0.0002253	0.0004941
Upper Lim.	0.001	0.001	0.001
Lower Lim.	0.0001	4.4E-05	6E-05

# Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A	YGWC-52
8/31/2016	0.0115 (J)	0.0147 (J)		
9/1/2016			0.0077 (J)	
11/14/2016		0.0175 (J)		
11/15/2016	0.0148 (J)			
11/16/2016			0.0075 (J)	
2/27/2017		0.0135 (J)	0.0084 (J)	
2/28/2017	0.0124 (J)			
5/8/2017	0.0132 (J)		0.0087 (J)	
5/9/2017		0.0136 (J)		
7/13/2017	0.0124 (J)	0.0129 (J)	0.0104 (J)	
10/10/2017	0.0123 (J)	0.015 (J)		
10/11/2017			0.0099 (J)	
4/3/2018		0.014 (J)		
4/4/2018	0.014 (J)		0.012 (J)	
9/19/2018	0.013 (J)	0.012 (J)	0.011 (J)	
8/20/2019	0.013 (J)	0.012 (J)		
8/21/2019			0.0076 (J)	
10/8/2019	0.012 (J)			
10/9/2019		0.012 (J)	0.0078 (J)	
3/17/2020	0.013 (J)	0.014 (J)	0.0071 (J)	
7/6/2020			0.011 (J)	
8/27/2020	0.013 (J)			0.0048 (J)
8/28/2020		0.012 (J)	0.012 (J)	
9/22/2020	0.013 (J)			0.0046 (J)
9/23/2020		0.012 (J)	0.013 (J)	
10/7/2020			0.011 (J)	0.0041 (J)
11/12/2020			0.014 (J)	0.0044 (J)
3/1/2021	0.013 (J)	0.012 (J)		0.0043 (J)
3/2/2021			0.013 (J)	
8/19/2021	0.013 (J)	0.012 (J)		
8/20/2021				0.0043 (J)
8/27/2021			0.014 (J)	
2/9/2022	0.014 (J)	0.012 (J)	0.014 (J)	0.0042 (J)
8/31/2022	0.013 (J)	0.012 (J)	0.015 (J)	0.0037 (J)
Mean	0.01298	0.01313	0.013	0.0043
Std. Dev.	0.0007798	0.001551	0.001414	0.0003295
Upper Lim.	0.01347	0.0147	0.01437	0.004649
Lower Lim.	0.01249	0.012	0.01163	0.003951



# Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.0002	<0.0002	
9/1/2016			<0.0002
11/14/2016		<0.0002	
11/15/2016	<0.0002		
11/16/2016			<0.0002
2/27/2017		<0.0002	<0.0002
2/28/2017	<0.0002		
5/8/2017	<0.0002		<0.0002
5/9/2017		<0.0002	
7/13/2017	<0.0002	<0.0002	<0.0002
10/10/2017	<0.0002	<0.0002	
10/11/2017			<0.0002
4/3/2018		<0.0002	
4/4/2018	<0.0002		<0.0002
9/19/2018	6E-05 (J)	7.1E-05 (J)	7E-05 (J)
8/20/2019	<0.0002	<0.0002	
8/21/2019			<0.0002
7/6/2020			<0.0002
8/27/2020	<0.0002		
8/28/2020		<0.0002	<0.0002
11/12/2020			<0.0002
8/19/2021	<0.0002	<0.0002	
8/27/2021			<0.0002
2/9/2022	<0.0002	<0.0002	<0.0002
8/31/2022	<0.0002	<0.0002	<0.0002
Mean	0.0001892	0.0001901	0.0001913
Std. Dev.	3.883E-05	3.578E-05	3.357E-05
Upper Lim.	0.0002	0.0002	0.0002
Lower Lim.	6E-05	7.1E-05	7E-05

# Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-45	YGWC-46A
8/31/2016	<0.01	0.0024 (J)	
9/1/2016			<0.01
11/14/2016		<0.01	
11/15/2016	<0.01		
11/16/2016			<0.01
2/27/2017		0.0018 (J)	<0.01
2/28/2017	0.0005 (J)		
5/8/2017	<0.01		0.0008 (J)
5/9/2017		0.0015 (J)	
7/13/2017	<0.01	0.0015 (J)	0.0015 (J)
10/10/2017	<0.01	0.0015 (J)	
10/11/2017			0.002 (J)
4/3/2018		<0.01	
4/4/2018	<0.01		0.0021 (J)
9/19/2018	<0.01	<0.01	0.0039 (J)
8/20/2019	<0.01	0.0011 (J)	
8/21/2019			0.0012 (J)
10/8/2019	<0.01		
10/9/2019		0.0012 (J)	0.0013 (J)
3/17/2020	<0.01	0.0016 (J)	0.0015 (J)
7/6/2020			0.0026 (J)
8/27/2020	<0.01		
8/28/2020		0.0013 (J)	0.003 (J)
9/22/2020	<0.01		
9/23/2020		0.0011 (J)	0.0025 (J)
10/7/2020			0.0024 (J)
11/12/2020			0.0019 (J)
3/1/2021	<0.01	0.0012 (J)	
3/2/2021			0.0023 (J)
8/19/2021	<0.01	0.0012 (J)	
8/27/2021			0.0022 (J)
2/9/2022	<0.01	0.0012 (J)	0.0021 (J)
8/31/2022	<0.01	0.0011 (J)	0.0017 (J)
Mean	0.009441	0.002924	0.00325
Std. Dev.	0.002304	0.003392	0.002986
Upper Lim.	0.01	0.0024	0.003669
Lower Lim.	0.0005	0.0011	0.001669

# Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 10/7/2022 9:42 AM View: Appendix IV - Confidence Intervals

Plant Yates Client: Southern Company Data: Yates Ash Pond1

	YGWC-44	YGWC-46A
8/31/2016	<0.001	
9/1/2016		<0.001
11/15/2016	<0.001	
11/16/2016		<0.001
2/27/2017		<0.001
2/28/2017	<0.001	
5/8/2017	<0.001	<0.001
7/13/2017	<0.001	<0.001
10/10/2017	<0.001	
10/11/2017		<0.001
4/4/2018	<0.001	<0.001
9/19/2018	<0.001	<0.001
8/20/2019	<0.001	
8/21/2019		<0.001
10/8/2019	<0.001	
10/9/2019		<0.001
3/17/2020	8E-05 (J)	<0.001
7/6/2020		7.3E-05 (J)
8/27/2020	<0.001	
8/28/2020		<0.001
11/12/2020		<0.001
8/19/2021	<0.001	
8/27/2021		<0.001
2/9/2022	<0.001	<0.001
8/31/2022	<0.001	<0.001
Mean	0.0009387	0.0009455
Std. Dev.	0.0002375	0.0002248
Upper Lim.	0.001	0.001
Lower Lim.	8E-05	7.3E-05

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