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Georgia Power

2024 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2

Newnan, Georgia

January 31, 2025

2024 Annual Groundwater Monitoring and Corrective Action Report

Plant Yates – Ash Pond 2
Newman, Georgia

January 31, 2025

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

Prepared For:
Georgia Power Company
Newnan, Georgia
Coweta County

Alexandra Simpson
Senior Geologist

Geoff Gay, PE
Technical Expert (Eng), Vice President

Summary

This summary of the 2024 Annual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program from January to December 2024 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Pond (AP) AP-2 (the Site). Arcadis U.S., Inc. (Arcadis) prepared this summary on behalf of Georgia Power to meet the requirements listed in Part A, Section 6[1] of the U.S. Environmental Protection Agency (USEPA) Coal Combustion Residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam-generating units. Five of the units were retired in 2015, and two units were converted from coal to natural gas. CCR materials resulting from power generation have historically been transferred and stored at the Site. CCR Removal and the six-inch over dig for verification have been completed at Plant Yates AP-2. On July 11, 2023, the Georgia Environmental Protection Division (GAEPD) approved CCR permit (038-018D (CCR)) for Plant Yates AP-2. EPD acknowledged final removal of CCR at AP-2 on February 19, 2024.

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

During the 2024 reporting period, Arcadis conducted groundwater sampling events in February and August. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for February and August 2024 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III[2] parameters in wells provided in the table below. There were no statistically significant levels (SSLs) detected for Appendix IV[3] parameters[4]. During the 2024 annual reporting period, the Site remained in assessment monitoring.

Appendix III Parameter	February 2024	August 2024
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-28S

[1] 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
[2] Boron, calcium, chloride, fluoride, pH, sulfate, and total dissolved solids (TDS)
[3] Antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, fluoride, lead, lithium, mercury, molybdenum, selenium, thallium, and radium 226 + 228.
[4] A 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.

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program for 2024, the Site will continue in assessment monitoring. Georgia Power will continue routine groundwater monitoring and reporting at the Site. Reports will be posted to the website and provided to GAEPD semiannually.

Contents

Tables

Figures

Appendices

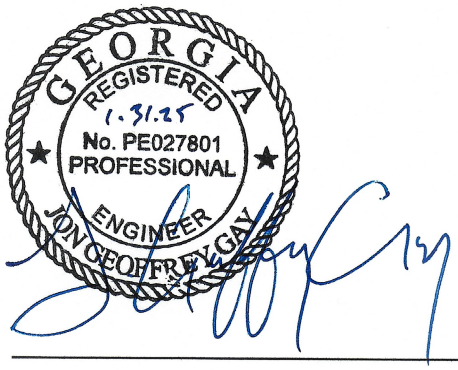
Acronyms and Abbreviations

Arcadis	Arcadis, Inc.
AP	Ash Pond
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
GAEPD	Georgia Environmental Protection Division
GPC	Georgia Power Company
GWPS	Groundwater Protection Standard
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
QA/QC	Quality Assurance/Quality Control
SSI	statistically significant increase
SSL	statistically significant level
TDS	total dissolved solids
USEPA	United States Environmental Protection Agency

Professional Certification

This 2024 Annual Groundwater Monitoring and Corrective Action Report, Plant Yates Ash Pond 2 (AP-2) has been prepared in compliance with the United States Environmental Protection Agency Coal Combustion Residual Rule (40 Code of Federal Regulations [CFR] 257 Subpart D), specifically § 257.90(e), and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4.01.

Arcadis U.S., Inc.



1.31.25

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

Date

1 Introduction

This 2024 Annual Groundwater Monitoring and Corrective Action Report documents groundwater monitoring conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-2 (the Site) in February and August 2024. This report was prepared in accordance with the United States Environmental Protection Agency (USEPA) Coal Combustion Residuals (CCR) Rule (40 Code of Federal Regulations [CFR] 257 Subpart D) and the Georgia Environmental Protection Division (GAEPD) Rules for Solid Waste Management 391-3-4-.10. Groundwater monitoring requirements for the Site are specified by GAEPD Rule 391-3-4-.10(6)(a), which also incorporates the USEPA CCR Rule. For ease of reference, the USEPA CCR Rules are cited within this report.

This report presents the results from the annual monitoring for Appendix III and IV constituents conducted in February and August 2024 in accordance with 40 CFR § 257.95.

1.1 Background

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

A permit application to comply with GAEPD rules was approved on July 11, 2023 (038-018D (CCR)). CCR Removal and the six-inch over dig for verification have been completed at Plant Yates AP-2. A certification of removal was submitted to GA EPD on November 18, 2023. EPD acknowledged final removal of CCR at AP-2 on February 19, 2024. AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Semiannual monitoring for the CCR unit is performed in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR Rule and the GAEPD rules for Solid Waste Management 391-3-4-.10(6)(a).

1.2 Regional Geology and Hydrogeologic Setting

Plant Yates is located in the Inner Piedmont Physiographic Province of western Georgia, immediately southeast of the Brevard Zone, a regional fault zone that separates the Piedmont from the Blue Ridge. Rock units at Plant Yates are primarily interlayered gneiss and schists. The rocks in the area have been subjected to extensive metamorphism, deformation, and igneous intrusions. Extensive fracture sets are present in the underlying bedrock. Surface expressions of these fractures are observed on topographic maps and aerial photos of the Plant Yates area (ACC 2023).

A thin layer of soil from 1 to 2 feet thick overlies a thick layer of saprolite. The saprolite, which extends to typical depths of 20 to 40 feet below ground surface, was formed in place by the physical and chemical weathering of the underlying metamorphic rocks. The saprolite typically consists of clay- and silt-rich soils that grade to sandier soils with depth. A zone of variable thickness (approximately 5 to 20 feet) of transitionally weathered rock typically

exists between the saprolite and competent bedrock. The lithology of the transition zone is highly variable and ranges from medium to coarse unconsolidated material to highly fractured and weathered rock fragments. Localized alluvial soils consisting of generally coarser material (silty-sand, clayey silt, and silty clay with well-rounded gravel and cobbles) that have been observed in saprolite may be related to historical river channel migration.

At Plant Yates, groundwater is typically encountered slightly above the saprolite/weathered rock interface. Groundwater flow in the saprolite zone is through interconnected pores and relict textures and fractures. As the rock becomes increasingly competent with depth, groundwater flow occurs mainly through joints and fractures (i.e., secondary porosity). Recharge to the water-bearing zones in fractured bedrock takes place by seepage through the overlying mantle of soil/saprolite or by direct entrance through openings in outcrops. The average depth of the water table at Plant Yates varies with topography, ranging from approximately 5 to 50 feet below ground surface. The water table occurs in the saprolite and in the transitionally weathered zone, at least several feet above the top of rock.

Field hydraulic conductivity tests (i.e., slug tests) have been performed in saprolite and weathered bedrock at multiple locations at the Site. The hydraulic conductivity at these locations is typically in a range from 10^{-3} to 10^{-4} centimeters per second based on multiple rising-head and falling-head slug tests (ACC 2023). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

1.3 Groundwater Monitoring Well Network and CCR Unit Description

Pursuant to 40 CFR § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at the Site. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Unit within the uppermost aquifer. Wells are located to monitor upgradient and downgradient conditions based on groundwater flow direction. The groundwater monitoring well network is summarized in **Table 1**.

As typical of the Piedmont Physiographic Province, there is a degree of connectivity between the saprolite and partially weathered rock units (Harned, D.A., and Daniel, C.C., III 1992). Fractured bedrock may or may not be connected to the overlying units, and flow may be controlled by geologic structures present. Based on the Site hydrogeology, the monitoring system is designed to monitor groundwater flow in the saprolite, the transition zone, and the upper bedrock. Wells suffixed with an “S” are installed in saprolite, an “I” indicates partially weathered rock (transition zone), and “D” indicates upper bedrock. The CCR unit AP-2 was established along a topographically low area formed by an unnamed tributary. Based on the Site hydrogeology, the monitoring system is designed to monitor groundwater flow in the overburden, the transition zone, and the upper bedrock. The monitoring well network for the Site is illustrated on **Figure 3**.

2 Groundwater Monitoring

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in February and August 2024 and presents the status of the monitoring program. Groundwater sampling was performed in

accordance with 40 CFR § 257.93. Samples were collected from each well in the certified monitoring system shown on **Figure 3**.

Table 2 summarizes groundwater sampling events conducted by Arcadis at AP-2 during this annual reporting period. During the February and August 2024 events, groundwater samples were collected and analyzed for both 40 CFR 257 Appendix III and 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Installation and Maintenance

YGWC-29IB was installed on December 12, 2023 as a replacement well for YGWC-29IA due to additional dam construction along the river. A well installation report for YGWC-29IB was submitted to GAEPD on March 22, 2024 under separate cover and is included in **Appendix B**.

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

Monitoring wells are inspected semiannually to determine if any repairs or corrective actions are necessary to meet the requirements of the Georgia Water Well Standards Act (O.C.G.A. § 12-5-134(5)(d)(vii)). In February and August 2024, monitoring wells were inspected to identify the need for corrective actions as documented in **Appendix A**. There were no maintenance issues during this period that required corrective action.

2.2 Assessment Monitoring

AP-2 was placed in an assessment monitoring program based on results of the 2017 Annual Groundwater and Corrective Action Monitoring Report, which was implemented on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. Monitoring wells at AP-2 were sampled for Appendix III and Appendix IV parameters in February and August 2024 pursuant to 40 CFR § 257.95(b) and 40 CFR § 257.95(d)(1). A summary of the groundwater sampling event is provided in **Table 2**.

3 Sampling Methodology and Analysis

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

3.1 Groundwater Flow Direction, Gradient, and Velocity

Before each sampling event, static water levels were recorded from piezometers and wells at AP-2 as noted in **Table 3**. Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from the February and August 2024 gauging events. Sitewide potentiometric surface maps for February and August 2024 are provided on **Figures 4 and 5**, respectively. The AP-2 potentiometric surface maps for February and August 2024 are provided on **Figures 6 and 7**, respectively. The groundwater flow direction for the saprolite and transition zone wells is generally northeast, southwest, and west toward AP-2 where it flows west to the Chattahoochee River. The groundwater flow direction is consistent with historical

patterns. It is interpreted that variations between saprolite/transition zone wells and deep bedrock wells are attributed to bedrock geologic structural controls, and therefore do not reflect the surficial aquifer potentiometric surface. Based on this interpretation, the deep bedrock potentiometric surface was not used for contouring.

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

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

where:

v = groundwater seepage velocity

k = hydraulic conductivity

dh/dl = hydraulic gradient

n_e = effective porosity

Groundwater flow velocities were calculated for the Site based on hydraulic gradients, average hydraulic conductivity based on previous slug test data, and an estimated effective porosity of 0.20 (based on a review of several sources including Driscoll 1986, USEPA 1989, and Freeze and Cherry 1979).

Calculated groundwater flow velocities for February and August 2024 are presented in **Table 4**. The calculated average groundwater linear flow velocities for February and August 2024 were both approximately 26 feet per year. These calculated groundwater velocities across the Site are generally consistent with historical calculations and with expected velocities in the site-specific geology, thereby, confirming the groundwater monitoring network is properly located to monitor the uppermost aquifer.

3.2 Groundwater Sampling

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

An AquaTroll™ 600 (In-Situ field instrument) was used to monitor and record field water quality parameters (pH, conductivity, and dissolved oxygen [DO]) during well purging to verify stabilization before sampling. Turbidity was measured using a portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

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

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

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

3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from each monitoring well as summarized in **Table 2**. During the February and August 2024 sampling events, the AP-2 wells were sampled and analyzed for Appendix III parameters as well as for Appendix IV parameters according to 40 CFR § 257.95(b). **Table 5** provides a summary of the constituents monitored during the events. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports, along with chain-of-custody records included in **Appendix C**.

Analytical data from AP-2 and the upgradient wells collected in February and August 2024 in compliance with the CCR Rule, along with additional geochemical parameters (i.e., alkalinity, cations) collected during the February 2024 event, are summarized in **Tables 6a and 6b**. Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project.

3.4 Data Quality Assurance/Quality Control and Validation

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one per 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report were validated in accordance with USEPA guidance (USEPA 2011) and the analytical methods. Data validation generally consisted of reviewing sample integrity, holding times, laboratory method blanks, laboratory control samples, matrix spikes/matrix spike duplicate recoveries and relative percent differences, post-digestion spikes, laboratory and field duplicate relative percent differences, equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags have been applied to the data using USEPA procedures as guidance (USEPA 2017). The February and August 2024 data validation reports included in **Appendix C** summarizes the validation actions and applicable interpretation.

The purpose of the data quality evaluation was to determine the reliability of the chemical analyses and the accuracy and precision of information acquired from the laboratory. Data quality was assessed through the review and evaluation of field sampling, quality control samples, and data associated with the chemical analytical results. The validated data meet project objectives and the associated data validation reports are provided in **Appendix C** along with the laboratory reports.

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

4 Statistical Analysis

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on data from the assessment monitoring events pursuant to 40 CFR §§ 257.93–95 following the established, certified statistical methods. The statistical method used at the Site was developed in accordance with 40 CFR § 257.93(f) using methodology presented in Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance, March 2009, USEPA 530/R-09-007 (USEPA 2009).

4.1 Statistical Methods

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

4.1.1 Appendix III Statistical Methods

Groundwater data were evaluated using interwell prediction limits for Appendix III parameters. This method uses sitewide pooled upgradient monitoring well data to establish a background statistical limit. Data from the February and August 2024 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 statistically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine whether the result was an outlier. If resampling is performed, and the initial finding is not verified, the resampled value replaces the initial finding. When the resample confirms the initial result, both values remain in the database, and an SSI is declared. The following criteria were applied to the evaluation:

- Statistical analyses were not performed on analytes exhibiting 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, simple substitution of one half the reporting limit was used in the statistical analysis. The reporting limit used for non-detects is the practical quantification limit reported by the laboratory.
- When data contained between 15 to 50 percent non-detects, the Kaplan-Meier non-detect adjustment was applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Non-parametric prediction limits were used on data containing greater than 50 percent non-detects.

4.1.2 Assessment Monitoring Statistical Methods

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

parametric tolerance limits depend on the number of background samples. The background limits were then used when determining the Groundwater Protection Standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). USEPA revised the federal CCR Rule on July 30, 2018, updating GWPSs for cobalt, lead, lithium, and molybdenum. As described in § 257.95(h)(1-3), the GWPS is defined by the criteria below. These criteria were adopted into the GA EPD Rules for Solid Waste Management 391-3-4-.10 on February 22, 2022.

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

- The maximum contaminant level (MCL) established under 40 CFR §§ 141.62 and 141.66.
- Where an MCL has not been established for the following constituents:
  - Cobalt: 0.006 milligram per liter (mg/L)
  - Lead: 0.015 mg/L
  - Lithium: 0.040 mg/L
  - Molybdenum: 0.100 mg/L.
- The background level for constituents for which the background level is higher than the MCL or rule identified GWPS.

GWPS have been established for statistical comparison of Appendix IV constituents at AP-2. **Table 7** summarizes the background levels established at the monitoring well for the February and August 2024 sampling events along with the GWPS.

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

4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the Site was performed to determine whether constituent concentrations have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the February and August 2024 semiannual events were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats 2019).

4.2.1 Appendix III Monitoring Constituents

Based on review of the Appendix III statistical analysis from the February and August 2024 sampling events presented in **Appendix D**, Appendix III concentrations have not returned to background levels, and assessment monitoring should continue pursuant to 40 CFR § 257.95(f). A table summarizing these constituents and wells is provided in **Appendix D**.

4.2.2 Appendix IV Assessment Monitoring Constituents

Statistical analysis of the February and August 2024 Appendix IV data were completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No SSLs were identified. Sanitas™ statistical output data for calculation of site-specific background concentrations and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**.

5 Monitoring Program Status

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

6 Conclusions and Future Actions

Statistical evaluations of the groundwater monitoring data for the Site identified no exceedance of a GWPS for an Appendix IV constituent during the February and August 2024 sampling events. The next assessment monitoring event is scheduled for February 2025. The February 2025 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
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Well ID	Well Designation	Location	Northing	Easting	Ground Surface Elevation (ft)	Top of Casing Elevation (ft)	Top of Screen Elevation (ft)	Bottom of Screen Elevation (ft)	Total Well Depth (ft bTOC)	Groundwater Zone Screened	Installation Date
YGWA-4I	Detection	Upgradient	1254436.68	2075455.62	781.9	784.21	745.70	735.70	48.81	PWR/Transition Zone	5/21/2014
YGWA-5I	Detection	Upgradient	1254399.95	2076218.86	782.1	784.54	735.90	725.90	58.94	PWR/Transition Zone	5/21/2014
YGWA-5D	Detection	Upgradient	1254396.67	2076223.63	781.9	784.53	706.00	656.00	129.13	Deep Bedrock	5/21/2014
YGWA-17S	Detection	Upgradient	1257602.79	2076758.31	780.2	783.05	753.20	743.20	39.85	Saprolite	9/10/2015
YGWA-18S	Detection	Upgradient	1257116.05	2077015.25	787.6	790.57	760.90	750.90	39.97	Saprolite	9/8/2015
YGWA-18I	Detection	Upgradient	1257090.05	2077015.82	787.6	790.57	720.90	710.90	79.97	PWR/Transition Zone	9/8/2015
YGWA-20S	Detection	Upgradient	1255531.55	2077410.37	764.6	767.12	747.90	737.90	29.52	Saprolite	9/29/2015
YGWA-21I	Detection	Upgradient	1255538.27	2076768.14	780.8	783.70	714.10	704.10	79.90	PWR/Transition Zone	9/28/2015
YGWA-39	Detection	Upgradient	1255717.13	2073865.58	815.6	818.19	760.10	750.10	68.59	Upper Fractured Bedrock	7/7/2016
YGWA-40	Detection	Upgradient	1255791.95	2073431.34	813.5	815.73	778.00	768.00	48.23	Upper Fractured Bedrock	7/7/2016
YGWA-1I	Detection	Upgradient	1256876.13	2070097.91	834.3	836.60	793.30	783.30	53.60	PWR/Transition Zone	5/20/2014
YGWA-1D	Detection	Upgradient	1256867.34	2070104.61	834.9	837.25	759.20	749.20	128.85	Deep Bedrock	5/20/2014
YGWA-2I	Detection	Upgradient	1256144.08	2070790.49	864.0	866.25	812.80	802.80	63.75	PWR/Transition Zone	5/20/2014
YGWA-3I	Detection	Upgradient	1256405.20	2072024.20	794.0	796.55	747.70	737.70	59.05	PWR/Transition Zone	5/20/2014
YGWA-3D	Detection	Upgradient	1256399.94	2072026.21	794.1	796.78	712.90	702.90	134.18	Deep Bedrock	5/20/2014
YGWA-14S	Detection	Upgradient	1257828.64	2072537.24	746.8	748.76	724.10	714.10	34.96	Saprolite	5/20/2014
YGWA-30I	Detection	Upgradient	1258421.86	2071107.11	760.1	762.58	713.40	703.40	59.48	PWR/Transition Zone	9/23/2015
YGWA-47	Detection	Upgradient	1262411.84	2071818.05	755.6	758.22	709.60	699.60	59.19	Bedrock	7/11/2016
GWA-2	Detection	Upgradient	1261383.11	2073509.98	803.1	805.62	763.80	753.80	52.02	Bedrock	4/12/2007
YGWC-26S	Detection	Downgradient	1259734.66	2070615.87	713.1	716.28	686.40	676.40	40.18	Saprolite	10/1/2015
YGWC-26I	Detection	Downgradient	1259725.79	2070613.56	713.1	715.91	656.40	646.40	69.81	PWR/Transition Zone	9/30/2015
YGWC-27S	Detection	Downgradient	1259417.12	2070454.17	713.0	716.52	686.30	676.30	40.52	Saprolite	10/7/2015
YGWC-27I	Detection	Downgradient	1259423.73	2070460.89	713.2	716.19	646.50	636.50	79.99	PWR/Transition Zone	10/7/2015
YGWC-28S	Detection	Downgradient	1259218.37	2070322.23	715.0	717.95	683.30	673.30	44.95	Saprolite	10/5/2015
YGWC-28I	Detection	Downgradient	1259226.47	2070328.27	715.0	717.93	658.30	648.30	69.93	PWR/Transition Zone	10/5/2015
YGWC-29IB	Detection	Downgradient	1259036.39	2070237.53	710.0	712.88	682.00	672.00	41.18	PWR/Transition Zone	12/14/2023
PZ-1S	Piezometer	Downgradient	1256871.97	2070101.24	834.5	836.84	810.80	800.80	36.34	Saprolite	5/20/2014
PZ-3S	Piezometer	Downgradient	1256410.86	2072021.63	794.0	796.39	764.30	754.30	42.39	Saprolite	5/20/2014
PZ-13S	Piezometer	Downgradient	1257849.98	2069810.25	805.5	807.79	774.30	764.30	43.79	Saprolite	5/20/2014
PZ-13I	Piezometer	Downgradient	1257850.30	2069817.10	805.4	807.62	758.70	748.70	59.22	PWR/Transition Zone	5/20/2014
PZ-14I	Piezometer	Downgradient	1257826.16	2072542.59	747.2	749.06	708.50	698.50	50.86	PWR/Transition Zone	5/20/2014
PZ-25I	Piezometer	Downgradient	1258860.75	2073491.10	763.8	766.38	692.10	682.10	84.58	PWR/Transition Zone	09/03/2015
PZ-25S	Piezometer	Downgradient	1258856.99	2073497.99	763.8	766.60	720.10	710.10	56.8	Saprolite	09/02/2015
PZ-31S	Piezometer	Downgradient	1258313.70	2072820.25	735.9	738.62	714.02	704.02	34.72	Saprolite	9/24/2015

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

Northing and Easting Georgia State Plane West, NAD83

Acronyms and Abbreviations:
bTOC = below top of casing

ft = feet

PWR = Partially Weathered Rock

Table 2
Groundwater Sampling Plan
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Well ID	Hydraulic Location	Semiannual Monitoring [1]	Semiannual Monitoring [1]
		February 19 - 23, 2024	August 20 - 22, 2024
YGWA-4I	Upgradient [2]	X	X
YGWA-5I	Upgradient [2]	X	X
YGWA-5D	Upgradient [2]	X	X
YGWA-17S	Upgradient [2]	X	X
YGWA-18S	Upgradient [2]	X	X
YGWA-18I	Upgradient [2]	X	X
YGWA-20S	Upgradient [2]	X	X
YGWA-21I	Upgradient [2]	X	X
YGWA-39	Upgradient [2]	X	X
YGWA-40	Upgradient [2]	X	X
YGWA-47	Upgradient [2]	X	X
GWA-2	Upgradient [2]	X	X
YGWA-1I	Upgradient	X	X
YGWA-1D	Upgradient	X	X
YGWA-2I	Upgradient	X	X
YGWA-3I	Upgradient	X	X
YGWA-3D	Upgradient	X	X
YGWA-14S	Upgradient	X	X
YGWA-30I	Upgradient	X	X
YGWC-26S	Downgradient	X	X
YGWC-26I	Downgradient	X	X
YGWC-27S	Downgradient	X	X
YGWC-27I	Downgradient	X	X
YGWC-28S	Downgradient	X	X
YGWC-28I	Downgradient	X	X
YGWC-29IB	Downgradient	X	X

Notes:

1. All wells analyzed for Appendix III and Appendix IV.

2. Wells from other units comprising sitewide pooled upgradient network.

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

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

Table 3
Summary of Groundwater Elevations - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Well ID	Date	TOC Elevation (ft)	Depth to Water (bTOC)	Groundwater Elevation (ft)
Downgradient Wells - February 2024				
YGWC-26S	2/19/2024	716.28	26.00	690.28
YGWC-26I	2/19/2024	715.91	26.72	689.19
YGWC-27S	2/19/2024	716.52	28.32	688.2
YGWC-27I	2/19/2024	716.19	28.38	687.81
YGWC-28S	2/19/2024	717.95	27.28	690.67
YGWC-28I	2/19/2024	717.93	27.76	690.17
YGWC-29IB	2/19/2024	712.88	25.60	687.28
PZ-01S	2/19/2024	836.84	34.36	802.48
PZ-03S	2/19/2024	796.39	38.25	758.14
PZ-13S	2/19/2024	807.79	37.45	770.34
PZ-13I	2/19/2024	807.62	41.60	766.02
PZ-14I	2/19/2024	749.06	19.42	729.64
PZ-25S	2/19/2024	766.60	42.70	723.90
PZ-25I	2/19/2024	766.38	44.23	722.15
PZ-31S	2/19/2024	738.62	22.84	715.78
Upgradient Wells - February 2024				
YGWA-4I	2/19/2024	784.21	25.20	759.01
YGWA-5I	2/19/2024	784.54	21.00	763.54
YGWA-5D	2/19/2024	784.53	20.07	764.46
YGWA-17S	2/19/2024	783.05	12.21	770.84
YGWA-18S	2/19/2024	790.57	22.11	768.46
YGWA-18I	2/19/2024	790.57	24.78	765.79
YGWA-20S	2/19/2024	767.12	11.25	755.87
YGWA-21I	2/19/2024	783.70	31.61	752.09
YGWA-39	2/19/2024	818.19	21.03	797.16
YGWA-40	2/19/2024	815.73	24.99	790.74
YGWA-1I	2/19/2024	836.60	39.56	797.04
YGWA-1D	2/19/2024	837.25	51.10	786.15
YGWA-2I	2/19/2024	866.25	46.92	819.33
YGWA-3I	2/19/2024	796.55	52.41	744.14
YGWA-3D	2/19/2024	796.78	33.15	763.63
YGWA-14S	2/19/2024	748.76	18.53	730.23
YGWA-30I	2/19/2024	762.58	45.23	717.35
YGWA-47	2/19/2024	758.22	36.25	721.97
GWA-2	2/19/2024	805.62	38.11	767.51
Downgradient Wells - August 2024				
YGWC-26S	8/19/2024	716.28	26.56	689.72
YGWC-26I	8/19/2024	715.91	27.33	688.58
YGWC-27S	8/19/2024	716.52	30.12	686.40
YGWC-27I	8/19/2024	716.19	30.28	685.91
YGWC-28S	8/19/2024	717.95	27.88	690.07
YGWC-28I	8/19/2024	717.93	28.70	689.23
YGWC-29IB	8/19/2024	712.88	27.37	685.51
PZ-01S	8/19/2024	836.84	33.24	803.60
PZ-03S	8/19/2024	796.39	37.17	759.22
PZ-13S	8/19/2024	807.79	36.79	771.00
PZ-13I	8/19/2024	807.62	40.04	767.58
PZ-14I	8/19/2024	749.06	18.05	731.01
PZ-25S	8/19/2024	766.60	38.55	728.05
PZ-25I	8/19/2024	766.38	40.78	725.60
PZ-31S	8/19/2024	738.62	18.43	720.19
Upgradient Wells - August 2024				
YGWA-4I	8/19/2024	784.21	24.73	759.48
YGWA-5I	8/19/2024	784.54	20.48	764.06
YGWA-5D	8/19/2024	784.53	20.47	764.06
YGWA-17S	8/19/2024	783.05	13.55	769.50
YGWA-18S	8/19/2024	790.57	21.67	768.90
YGWA-18I	8/19/2024	790.57	24.75	765.82
YGWA-20S	8/19/2024	767.12	11.80	755.32
YGWA-21I	8/19/2024	783.70	31.88	751.82
YGWA-39	8/19/2024	818.19	19.63	798.56
YGWA-40	8/19/2024	815.73	24.92	790.81
YGWA-1I	8/19/2024	836.60	38.46	798.14
YGWA-1D	8/19/2024	837.25	50.88	786.37
YGWA-2I	8/19/2024	866.25	45.81	820.44
YGWA-3I	8/19/2024	796.55	53.09	743.46
YGWA-3D	8/19/2024	796.78	33.15	763.63
YGWA-14S	8/19/2024	748.76	17.10	731.66
YGWA-30I	8/19/2024	762.58	43.27	719.31
YGWA-47	8/19/2024	758.22	34.93	723.29
GWA-2	8/19/2024	805.62	NM	NM

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

Acronyms and Abbreviations:
bTOC = below top of casing
ft = feet
TOC = top of casing

Table 4
Groundwater Flow Velocity Calculations - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Equation

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

where:

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

Values Used in Calculation

Value			Source
K_{max}:	3.02E-03	cm/sec	See note 1
	8.57	ft/day	
K_{min}:	1.00E-06	cm/sec	
	0.003	ft/day	
K_{avg}	1.50E-04	cm/sec	
	0.43	ft/day	
Distance from:			
PZ-01S to YGWA-14S	2,610	feet	
PZ-13S to YGWC-27S	1,699	feet	
YGWA-14S to PZ-31S	575	feet	
Groundwater Elevation			**Date Collected:**
PZ-01S	802.48	feet	February 2024
YGWA-14S	730.23		
PZ-13S	770.34		
YGWC-28I	690.17		
YGWA-14S	730.23		
PZ-31S	715.78		
			Hydraulic gradient from:
i_1 = 0.028		unitless	PZ-01S to YGWA-14S (Feb. 2024)
i_2 = 0.047		unitless	PZ-13S to YGWC-27S (Feb. 2024)
i_3 = 0.025		unitless	YGWA-14S to PZ-31S (Feb. 2024)
i_{avg} = 0.033		unitless	Average
Groundwater Elevation			**Date Collected:**
PZ-01S	803.60	feet	August 2024
YGWA-14S	731.66		
PZ-13S	771.00		
YGWC-28I	689.23		
YGWA-14S	731.66		
PZ-31S	720.19		
			Hydraulic gradient from:
i_1 = 0.028		unitless	PZ-01S to YGWA-14S (Aug. 2024)
i_2 = 0.048		unitless	PZ-13S to YGWC-27S (Aug. 2024)
i_3 = 0.020		unitless	YGWA-14S to PZ-31S (Aug. 2024)
i_{avg} = 0.032		unitless	Average
n_e = 0.20		unitless	See note 2

Table 4
Groundwater Flow Velocity Calculations - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Minimum Linear Flow Velocity	Minimum Linear Flow Velocity
February 2024	*August 2024*
$V_{min} = \frac{(0.003)\ (0.033)}{0.20}$	$Vmin = \frac{(0.003)\ (0.032)}{0.20}$
Maximum Linear Flow Velocity	Maximum Linear Flow Velocity
February 2024	August 2024
$V_{max} = \frac{(8.57)\ (0.033)}{0.20}$	$Vmax = \frac{(8.57)\ (0.032)}{0.20}$
V_{min} = 0.0005 ft/day, or 0.18 ft/year	Vmin = 0.0005 ft/day, or 0.18 ft/year
V_{max} = 1.4 ft/day, or 511 ft/year	Vmax = 1.4 ft/day, or 511 ft/year
Average Linear Flow Velocity	Average Linear Flow Velocity
February 2024	*August 2024*
$Vavg = \frac{(0.43)(0.033)}{0.2}$	$Vavg = \frac{(0.43)(0.032)}{0.2}$
Vavg = 0.07 ft/day, or 26 ft/year	Vavg = 0.07 ft/day, or 26 ft/year

Notes:

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

Table 5
Summary of Groundwater Monitoring Parameters
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates AP-2

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

Notes:

CFR = Code of Federal Regulations

Table 6a
Groundwater Analytical Data - February and August 2024
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Analyte	Units	YGWC-26I 2/22/2024	YGWC-26I 8/21/2024	YGWC-26S 2/22/2024	YGWC-26S 8/21/2024	YGWC-27I 2/21/2024	YGWC-27I 8/21/2024	YGWC-27S 2/21/2024	YGWC-27S 8/22/2024	YGWC-28I 2/21/2024	YGWC-28I 8/22/2024	YGWC-28S 2/21/2024	YGWC-28S 8/22/2024	YGWC-29IB 2/22/2024	YGWC-29IB 8/22/2024
Appendix III															
pH	SU	5.92	6.31	5.58	6.17	6.43	7.28	6.26	6.27	6.43	6.19	6.49	6.23	6.01	5.86
Boron	mg/l	0.77	0.59	0.78	0.68	1.8	1.9	0.91	0.92	1.6	1.8	2.3	2.1	1.1	0.82
Calcium	mg/l	16.7	16.7	11.0	11.6	27.7	26.9	20.4	21.3	27.8	28.8	31.0	30.4	11.5	11.2
Chloride	mg/l	16.0	15.8	14.9	15.2	12.5	12.2	12.6	13.9	10.4	10.9	17.5	18.2	10.5	10.5
Fluoride	mg/l	0.057 J	0.098 J	< 0.050	< 0.050	0.082 J	0.12	0.11	0.075 J	0.096 J	0.080 J	0.15	0.14	0.075 J	0.071 J
Sulfate	mg/l	80.7	83.5	89.3	90.9	3.8	4.2	13.0	15.7	8.5	9.0	3.9	5.5	26.9	39.7
Total Dissolved Solids	mg/l	215	237	188	215	194	184	149	130	213	193	235	226	146	154
Appendix VI															
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084
Barium	mg/l	0.057	0.058	0.025	0.026	0.060	0.061	0.047	0.051	0.062	0.065	0.21	0.20	0.081	0.076
Beryllium	mg/l	< 0.000094	< 0.000094	< 0.000094	< 0.000094	0.00011 J	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	0.00012 J	0.00014 J
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	< 0.00032	< 0.00032	0.0012 J	0.00094 J	0.016	0.012	0.0016 J	0.0014 J	< 0.00032	< 0.00032	0.00074 J	0.00085 J	0.0071	0.0061
Fluoride	mg/l	0.057 J	0.098 J	< 0.050	< 0.050	0.082 J	0.12	0.11	0.075 J	0.096 J	0.080 J	0.15	0.14	0.075 J	0.071 J
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.0078 J	0.0072 J	< 0.0016	< 0.0016	0.0070 J	0.0068 J	< 0.0016	< 0.0016	0.0056 J	0.0060 J	< 0.0016	< 0.0016	0.0051 J	0.0044 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0015 J	0.0016 J	< 0.00062	< 0.00062	0.0013 J	0.0015 J	0.00068 J	0.00063 J	< 0.00062	< 0.00062
Combined Radium - 226/228	pci/l	0.745 U	0.442 U	0.303 U	0.780 U	3.26	2.97	0.669 U	0.428 U	0.447 U	0.762 U	0.781 U	0.580 U	0.871 U	0.459 U
Selenium	mg/l	0.0041 J	0.0047 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters															
Alkalinity	mg/L as $CaCO_3$	31.3	NA	15.3	NA	136	NA	95.3	NA	152	NA	178	NA	68.1	NA
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA
Alkalinity, Carbonate	mg/L as $CaCO_3$	31.3	NA	15.3	NA	136	NA	95.3	NA	152	NA	178	NA	68.1	NA
Magnesium	mg/L	12.0	NA	15.7	NA	15.2	NA	7.6	NA	16.2	NA	22.3	NA	11.6	NA
Potassium	mg/L	2.5	NA	0.80	NA	4.4	NA	1.5	NA	5.7	NA	4.0	NA	3.7	NA
Sodium	mg/L	23.8	NA	18.2	NA	11.6	NA	17.0	NA	9.3	NA	11.3	NA	15.8	NA

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

Acronyms and Abbreviations:
mg/L = milligrams per liter
pCi/L = picoCuries per liter
< = Analyte was not detected above the laboratory method detection limit (MDL)
J: Estimated concentration above the method detection limit and below the reporting limit.
U: the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualifited by the laboratory as estimated.

Table 6b
Upgradient Groundwater Analytical Data - February and August 2024
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Analyte	Units	GWA-2 2/20/2024	YGWA-1I 2/20/2024	YGWA-1I 8/20/2024	YGWA-1D 2/20/2024	YGWA-1D 8/20/2024	YGWA-2I 2/20/2024	YGWA-2I 8/20/2024	YGWA-3I 2/20/2024
Appendix III									
pH	SU	6.07	6.42	5.77	7.06	7.18	7.23	6.91	7.59
Boron	mg/l	0.017 J	0.014 J	< 0.012	0.015 J	< 0.012	< 0.012	< 0.012	< 0.012
Calcium	mg/l	22.8	2.2	1.9	15.3	17.7	28.2	30.4	23.7
Chloride	mg/l	6.1	1.2	1.3	1	1.0	0.96 J	0.91 J	1.1
Fluoride	mg/l	0.094 J	< 0.050	< 0.050	0.086 J	0.066 J	0.1	0.085 J	0.12
Sulfate	mg/l	75	4.3	4.9	9.7	12.2	23.1	21.3	13.8
Total Dissolved Solids	mg/l	214	59	67.0	130	140	159	184	220
Appendix IV									
Antimony	mg/l	0.0026 J	< 0.00054	< 0.00054	0.0023 J	0.00088 J	0.00067 J	< 0.00054	< 0.00054
Arsenic	mg/l	0.0015 J	< 0.00084	< 0.00084	< 0.00084	0.00099 J	0.0019 J	< 0.00084	0.0013 J
Barium	mg/l	0.035	0.0040 J	0.0072	0.0062	0.0061	0.0044 J	0.0033 J	0.0032 J
Beryllium	mg/l	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	0.023	0.0018 J	0.00033 J	0.00055 J	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Fluoride	mg/l	0.094 J	< 0.050	< 0.050	0.086 J	0.066 J	0.1	0.085 J	0.12
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.0024 J	< 0.0016	0.0023 J	0.0071 J	0.0037 J	0.0021 J	< 0.0016	0.020 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	< 0.00062	0.03	0.0039 J	0.0098 J	0.010	0.0076 J	0.011	0.0089 J
Combined Radium - 226/228	pci/l	0.978 U	0.798 U	0.650 U	0.274 U	0.460 U	0.784 U	0.0912 U	1.09 U
Selenium	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters									
Alkalinity	mg/L as $CaCO_3$	73.5	17.9	NA	61.2	NA	84.2	NA	90.2
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	73.5	17.9	NA	61.2	NA	84.2	NA	90.2
Alkalinity, Carbonate	mg/L as $CaCO_3$	< 5.0	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0
Magnesium	mg/L	19.8	1.0	NA	2.0	NA	4.4	NA	5.3
Potassium	mg/L	9.9	2.2	NA	3.8	NA	5.6	NA	5.0
Sodium	mg/L	8.2	5.5	NA	10	NA	9.4	NA	9.2

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

Acronyms and Abbreviations:
mg/L = milligrams per liter

pCi/L = picoCuries per liter

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

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

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

Table 6b
Upgradient Groundwater Analytical Data - February and August 2024
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Analyte	Units	YGWA-3I 8/20/2024	YGWA-3D 2/20/2024	YGWA-3D 8/20/2024	YGWA-4I 2/20/2024	YGWA-4I 8/20/2024	YGWA-5I 2/20/2024	YGWA-5I 8/20/2024	YGWA-5D 2/20/2024
Appendix III									
pH	SU	7.45	7.81	7.59	6.21	6.03	5.78	5.58	7.56
Boron	mg/l	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012
Calcium	mg/l	23.4	30.7	30.0	9.9	9.1	2.7	3.2	27.2
Chloride	mg/l	1.0	1.1	1.1	4.6	5.2	4.8	4.8	3.2
Fluoride	mg/l	0.12	0.45	0.45	0.059 J	< 0.050	< 0.050	< 0.050	0.076 J
Sulfate	mg/l	13.7	7	7.7	8.5	8.7	2.5	2.6	5.1
Total Dissolved Solids	mg/l	179	294	164	140	128	137	108	639
Appendix IV									
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	0.00061 J	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	< 0.00084	0.0027 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.0030 J
Barium	mg/l	0.0027 J	0.0045 J	0.0044 J	0.014	0.012	0.019	0.018	0.0078
Beryllium	mg/l	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	0.00019 J	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Fluoride	mg/l	0.12	0.45	0.45	0.059 J	< 0.050	< 0.050	< 0.050	0.076 J
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.017 J	0.021 J	0.021 J	0.014 J	0.011 J	0.0033 J	0.0031 J	0.0056 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	0.0058 J	0.013	0.012	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0010 J
Combined Radium - 226/228	pci/l	0.921 U	2.56	3.09	1.10 U	1.18	0.630 U	0.695 U	2.8
Selenium	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters									
Alkalinity	mg/L as $CaCO_3$	NA	108	NA	56	NA	25.3	NA	103
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NA	108	NA	56	NA	25.3	NA	103
Alkalinity, Carbonate	mg/L as $CaCO_3$	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0
Magnesium	mg/L	NA	3.7	NA	5.5	NA	2.7	NA	4.5
Potassium	mg/L	NA	3.5	NA	4.0	NA	1.5	NA	3.5
Sodium	mg/L	NA	10	NA	10.1	NA	10.5	NA	9.5

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

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Table 6b
Upgradient Groundwater Analytical Data - February and August 2024
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Analyte	Units	YGWA-5D 8/20/2024	YGWA-14S 02/23/2024	YGWA-14S 8/20/2024	YGWA-17S 2/20/2024	YGWA-17S 8/20/2024	YGWA-18S 2/23/2024	YGWA-18S 8/21/2024	YGWA-18I 2/20/2024
Appendix III									
pH	SU	7.3	5.39	5.49	5.64	5.45	5.30	5.42	6.11
Boron	mg/l	< 0.012	0.037 J	0.014 J	< 0.012	< 0.012	0.018 J	< 0.012	< 0.012
Calcium	mg/l	29.1	1.6	1.3	3.2	3.5	0.84 J	0.96 J	5.6
Chloride	mg/l	3.4	4.8	4.5	12.2	12.7	6.6	7.4	7.6
Fluoride	mg/l	0.058 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.051 J	< 0.050
Sulfate	mg/l	4.3	7.1	7.6	4.6	4.6	0.79 J	1.1	< 0.50
Total Dissolved Solids	mg/l	212	64	81.0	77	86.0	52	79.0	129
Appendix IV									
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	0.0012 J	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084
Barium	mg/l	0.0066	0.0096	0.0075	0.017	0.016	0.013	0.015	0.02
Beryllium	mg/l	< 0.000094	0.00024 J	0.00021 J	0.00010 J	0.00010 J	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032	< 0.00032
Fluoride	mg/l	0.058 J	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.051 J	< 0.050
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.0024 J	< 0.0016	< 0.0016	< 0.0016	< 0.0016	< 0.0016	0.0032 J	0.0038 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	0.00074 J	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062
Combined Radium - 226/228	pci/l	3.02	0.736 U	0.667 U	0.0387 U	0.554 U	0.318 U	0.684 U	0.0680 U
Selenium	mg/l	< 0.00096	0.0010 J	0.0012 J	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters									
Alkalinity	mg/L as $CaCO_3$	NA	14.4	NA	14.5	NA	8.7	NA	36.4
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NA	14.4	NA	14.5	NA	8.7	NA	36.4
Alkalinity, Carbonate	mg/L as $CaCO_3$	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0
Magnesium	mg/L	NA	1.8	NA	1.1	NA	1.0	NA	3.1
Potassium	mg/L	NA	0.89	NA	0.36 J	NA	0.62	NA	0.95
Sodium	mg/L	NA	10.1	NA	15	NA	8.6	NA	12.6

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

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Table 6b
Upgradient Groundwater Analytical Data - February and August 2024
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Analyte	Units	YGWA-18I 8/20/2024	YGWA-20S 2/20/2024	YGWA-20S 8/20/2024	YGWA-21I 2/20/2024	YGWA-21I 8/20/2024	YGWA-30I 2/20/2024	YGWA-30I 8/20/2024	YGWA-39 2/20/2024
Appendix III									
pH	SU	5.74	5.99	6.0	6.78	6.6	5.81	6.07	5.97
Boron	mg/l	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	< 0.012	0.12
Calcium	mg/l	5.9	2.5	2.8	7	6.9	1.3	1.4	16.9
Chloride	mg/l	7.8	2.9	3.0	2.3	2.3	1.4	1.4	4.6
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	0.083 J	0.062 J	0.051 J	< 0.050	0.063 J
Sulfate	mg/l	0.74 J	< 0.50	< 0.50	3.8	4.0	0.69 J	0.74 J	8.6
Total Dissolved Solids	mg/l	128	164	75.0	156	143	55	69.0	233
Appendix IV									
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	0.0013 J	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	< 0.00084	0.0020 J
Barium	mg/l	0.019	0.013	0.012	0.0065	0.0083	0.0064	0.0067	0.029
Beryllium	mg/l	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	< 0.00032	< 0.00032	< 0.00032	0.02	0.020	0.0029 J	0.0023 J	0.00073 J
Fluoride	mg/l	< 0.050	< 0.050	< 0.050	0.083 J	0.062 J	0.051 J	< 0.050	0.063 J
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016	< 0.00016
Lithium	mg/l	0.0032 J	< 0.0016	< 0.0016	0.0062 J	0.0057 J	< 0.0016	< 0.0016	0.0059 J
Mercury	mg/l	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013	< 0.00013
Molybdenum	mg/l	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	< 0.00062	0.0058 J
Combined Radium - 226/228	pci/l	0.223 U	0.165 U	0.371 U	1.19	0.545 U	0.375 U	0.748 U	0.701 U
Selenium	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.00038
Other Parameters									
Alkalinity	mg/L as $CaCO_3$	NA	24.6	NA	70.9	NA	15.7	NA	183
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NA	24.6	NA	70.9	NA	15.7	NA	183
Alkalinity, Carbonate	mg/L as $CaCO_3$	NA	< 5.0	NA	< 5.0	NA	< 5.0	NA	< 5.0
Magnesium	mg/L	NA	0.59	NA	3.6	NA	0.89	NA	21.2
Potassium	mg/L	NA	0.51	NA	3.1	NA	0.55	NA	5.8
Sodium	mg/L	NA	9.2	NA	18.6	NA	5.8	NA	25.2

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

Acronyms and Abbreviations:
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Table 6b
Upgradient Groundwater Analytical Data - February and August 2024
2024 Semiannual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Analyte	Units	YGWA-39 8/21/2024	YGWA-40 2/20/2024	YGWA-40 8/21/2024	YGWA-47 2/20/2024	YGWA-47 8/20/2024
Appendix III						
pH	SU	6.0	5.32	5.38	5.62	5.48
Boron	mg/l	0.13	0.056	0.061	0.023 J	< 0.012
Calcium	mg/l	19.7	5.6	6	10.3	10
Chloride	mg/l	4.0	5.7	5.4	3.2	3.6
Fluoride	mg/l	0.083 J	< 0.050	0.060 J	0.073 J	< 0.050
Sulfate	mg/l	6.6	17.2	18.2	51	53.9
Total Dissolved Solids	mg/l	235	109	94.0	159	155
Appendix IV						
Antimony	mg/l	< 0.00054	< 0.00054	< 0.00054	< 0.00054	< 0.00054
Arsenic	mg/l	0.0027 J	0.0012 J	0.0014 J	< 0.00084	< 0.00084
Barium	mg/l	0.030	0.033	0.033	0.031	0.031
Beryllium	mg/l	< 0.000094	0.00025 J	0.00023 J	< 0.000094	< 0.000094
Cadmium	mg/l	< 0.00010	< 0.00010	< 0.00010	< 0.00010	< 0.00010
Chromium	mg/l	< 0.0019	< 0.0019	< 0.0019	< 0.0019	< 0.0019
Cobalt	mg/l	0.00048 J	< 0.00032	< 0.00032	0.0011 J	0.00034 J
Fluoride	mg/l	0.083 J	< 0.050	0.060 J	0.073 J	< 0.00016
Lead	mg/l	< 0.00016	< 0.00016	< 0.00016	< 0.00016	0.0036 J
Lithium	mg/l	0.0055 J	< 0.0016	< 0.0016	0.0036 J	< 0.00013
Mercury	mg/l	< 0.00013	0.00032	0.00033	< 0.00013	< 0.00062
Molybdenum	mg/l	0.0068 J	< 0.00062	< 0.00062	< 0.00062	0.873 U
Combined Radium - 226/228	pci/l	1.52	0.437 U	0.265 U	0.939 U	< 0.00096
Selenium	mg/l	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00038
Thallium	mg/l	< 0.00038	< 0.00038	< 0.00038	< 0.00038	< 0.050
Other Parameters						
Alkalinity	mg/L as $CaCO_3$	NA	24.7	NA	36.4	NA
Alkalinity, Bicarbonate	mg/L as $CaCO_3$	NA	24.7	NA	36.4	NA
Alkalinity, Carbonate	mg/L as $CaCO_3$	NA	< 5.0	NA	< 5.0	NA
Magnesium	mg/L	NA	3.2	NA	10.9	NA
Potassium	mg/L	NA	2.0	NA	4.1	NA
Sodium	mg/L	NA	10.1	NA	12.3	NA

Notes:
Appendix III = Consituents for Detection Monitoring - 40 CFR Part 257
Appendix IV = Consituents for Assessment Monitoring - 40 CFR Part 257

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Table 7
Background Levels and Groundwater Protection Standards
2024 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Constituent	Units	Background [1]	GWPS
August 2024			
Antimony	mg/L	0.0047	0.006
Arsenic	mg/L	0.005	0.010
Barium	mg/L	0.21	2.00
Beryllium	mg/L	0.0011	0.004
Cadmium	mg/L	0.00063	0.005
Chromium	mg/L	0.0093	0.100
Cobalt	mg/L	0.035	0.035 [2]
Fluoride	mg/L	0.680	4.00
Lead	mg/L	0.0013	0.015
Lithium	mg/L	0.030	0.040
Mercury	mg/L	0.00064	0.002
Molybdenum	mg/L	0.030	0.100
Selenium	mg/L	0.005	0.050
Thallium	mg/L	0.001	0.002
Combined Radium - 226/228	pCi/L	6.92	6.92 [2]

Notes:

1. Site background: Tolerance limits calculated from pooled upgradient well data.

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

Acronyms and Abbreviations:

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

CFR = Code of Federal Regulations

MCL = Maximum Contaminant Level

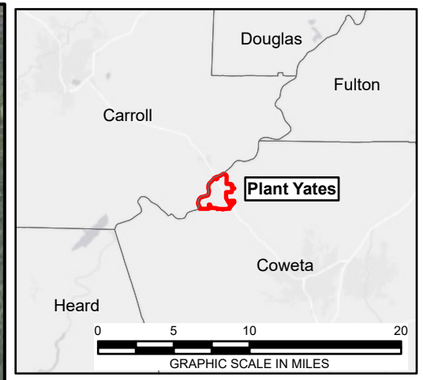
mg/L = millgrams per liter

pCi/L = picocuries per liter

Figures

84°55'36"W 84°55'24"W 84°55'12"W 84°55'0"W 84°54'48"W 84°54'36"W 84°54'24"W 84°54'12"W 84°54'0"W 84°53'48"W 84°53'36"W 84°53'24"W 84°53'12"W 84°53'0"W 84°52'48"W 84°52'36"W 84°52'24"W

33°28'40"N
33°28'30"N
33°28'20"N
33°28'10"N
33°28'0"N
33°27'50"N
33°27'40"N
33°27'30"N
33°27'20"N
33°27'10"N
33°27'0"N
33°26'50"N
33°26'40"N



LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

NOTE:
AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 650 1,300 2,600
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITE LOCATION MAP

ARCADIS

FIGURE
1

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W

33°28'12"N
33°28'6"N
33°28'0"N
33°27'54"N
33°27'48"N
33°27'42"N
33°27'36"N
33°27'30"N
33°27'24"N
33°27'18"N
33°27'12"N
33°27'6"N
33°27'0"N
33°26'54"N
33°26'48"N

LEGEND

- SAPROLITE DETECTION MONITORING WELL LOCATION
- TRANSITION DETECTION MONITORING WELL LOCATION
- BEDROCK DETECTION MONITORING WELL LOCATION
- SAPROLITE ASSESSMENT WELL/ PIEZOMETER
- TRANSITION ASSESSMENT WELL/ PIEZOMETER
- BEDROCK ASSESSMENT WELL/ PIEZOMETER
- PERMITTED UNIT BOUNDARY
- AREA WHERE ASH HAS BEEN CERTIFIED REMOVED AS OF 1/31/2024

NOTE:
AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 450 900 1,800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

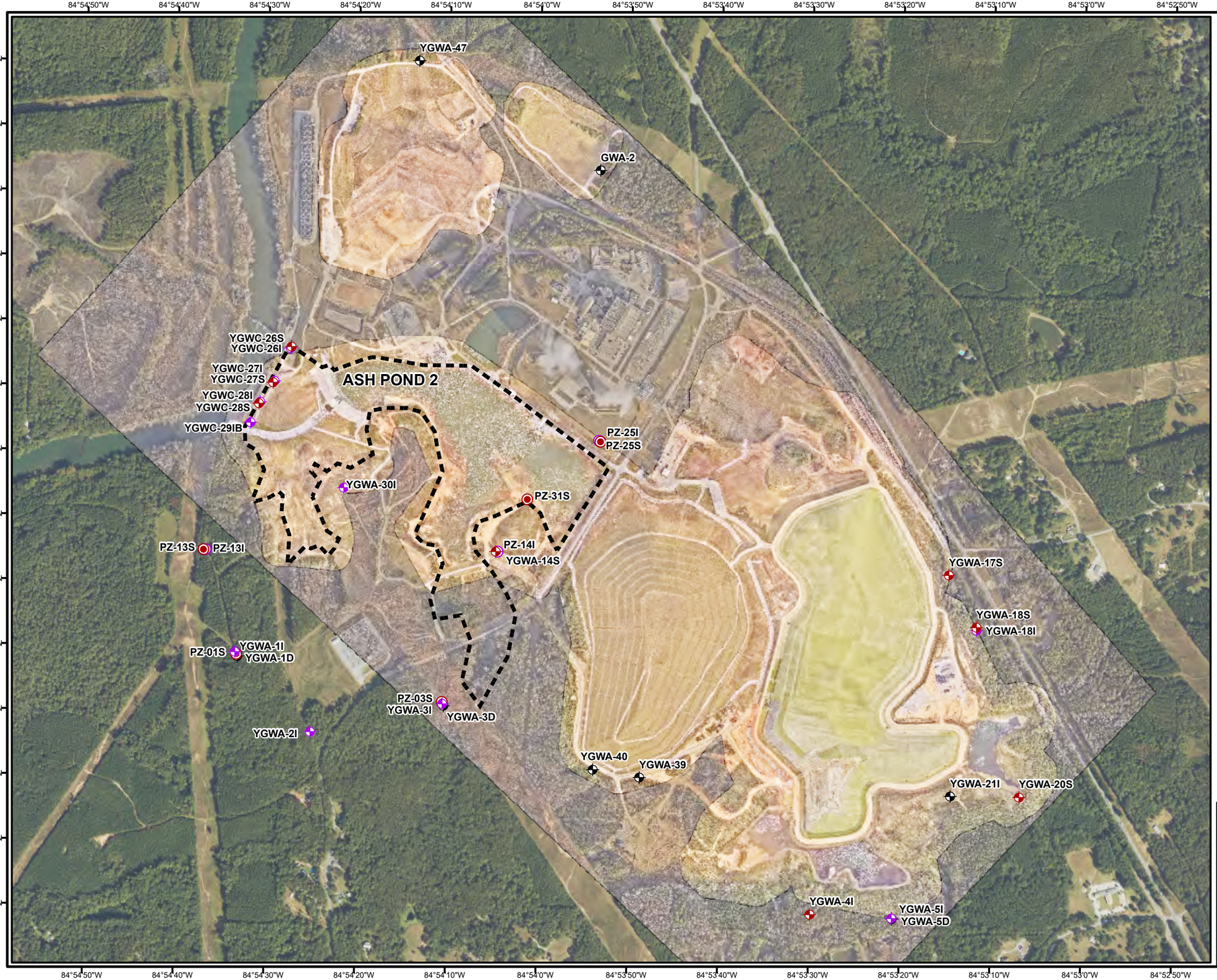
PLANT YATES CCR REMOVAL AREAS

ARCADIS

FIGURE
2

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W

33°28'6"N
33°28'0"N
33°27'54"N
33°27'48"N
33°27'42"N
33°27'36"N
33°27'30"N
33°27'24"N
33°27'18"N
33°27'12"N
33°27'6"N
33°27'0"N
33°26'54"N
33°26'48"N



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

NOTE:
1. YGWC-29I WAS ABANDONED ON OCTOBER 17, 2022. REPLACEMENT WELL YGWC-29IA WAS INSTALLED THE WEEK OF JANUARY 9, 2023.
2. AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

0 437.5 875 1,750
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

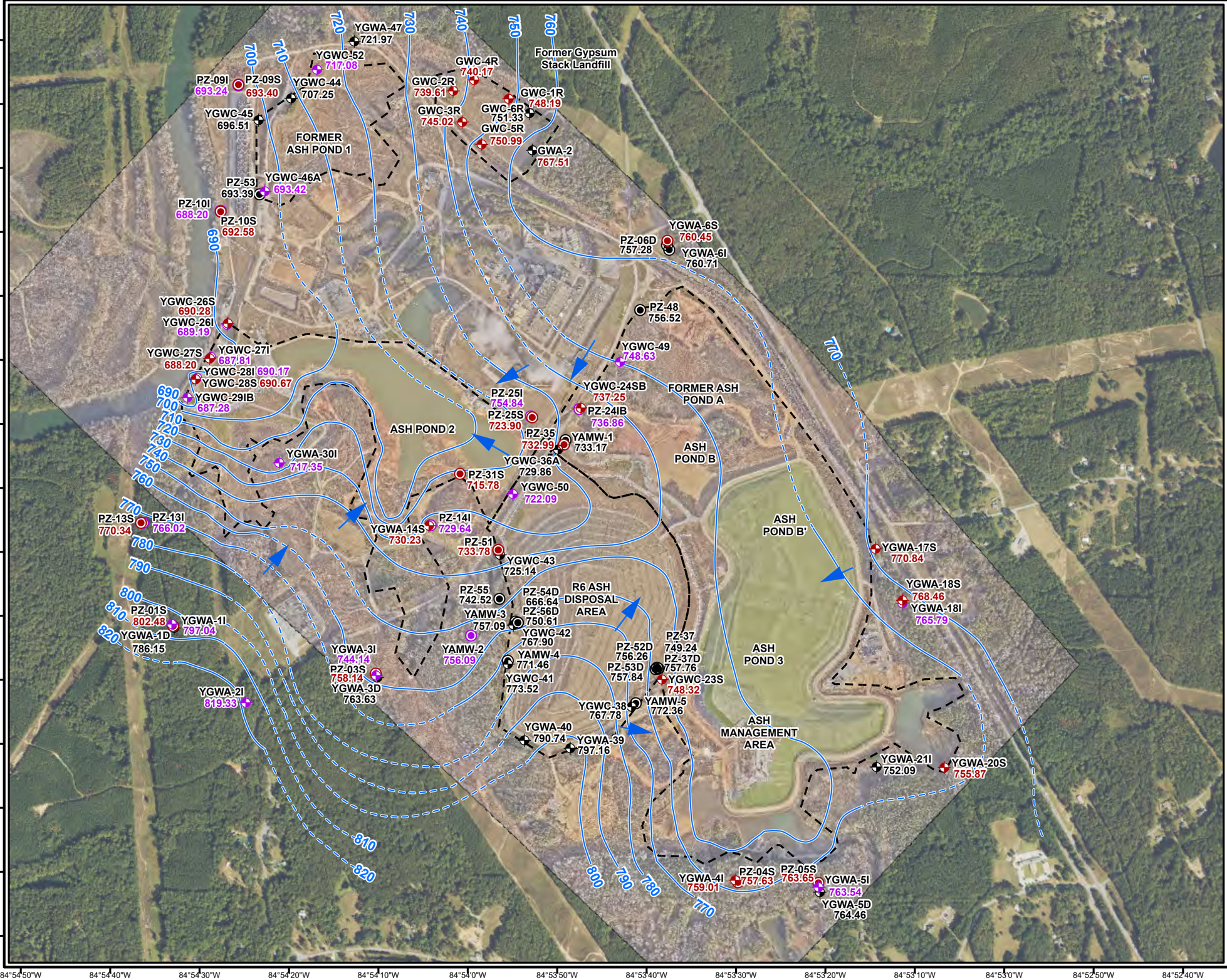
WELL LOCATION MAP

ARCADIS

FIGURE
3

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W

33°28'6"N 33°28'0"N 33°27'54"N 33°27'48"N 33°27'42"N 33°27'36"N 33°27'30"N 33°27'24"N 33°27'18"N 33°27'12"N 33°27'6"N 33°27'0"N 33°26'54"N 33°26'48"N 33°26'42"N



LEGEND

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

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JON C. GEORGE

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: JANUARY 22, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 19, 2024.

0 450 900 1,800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

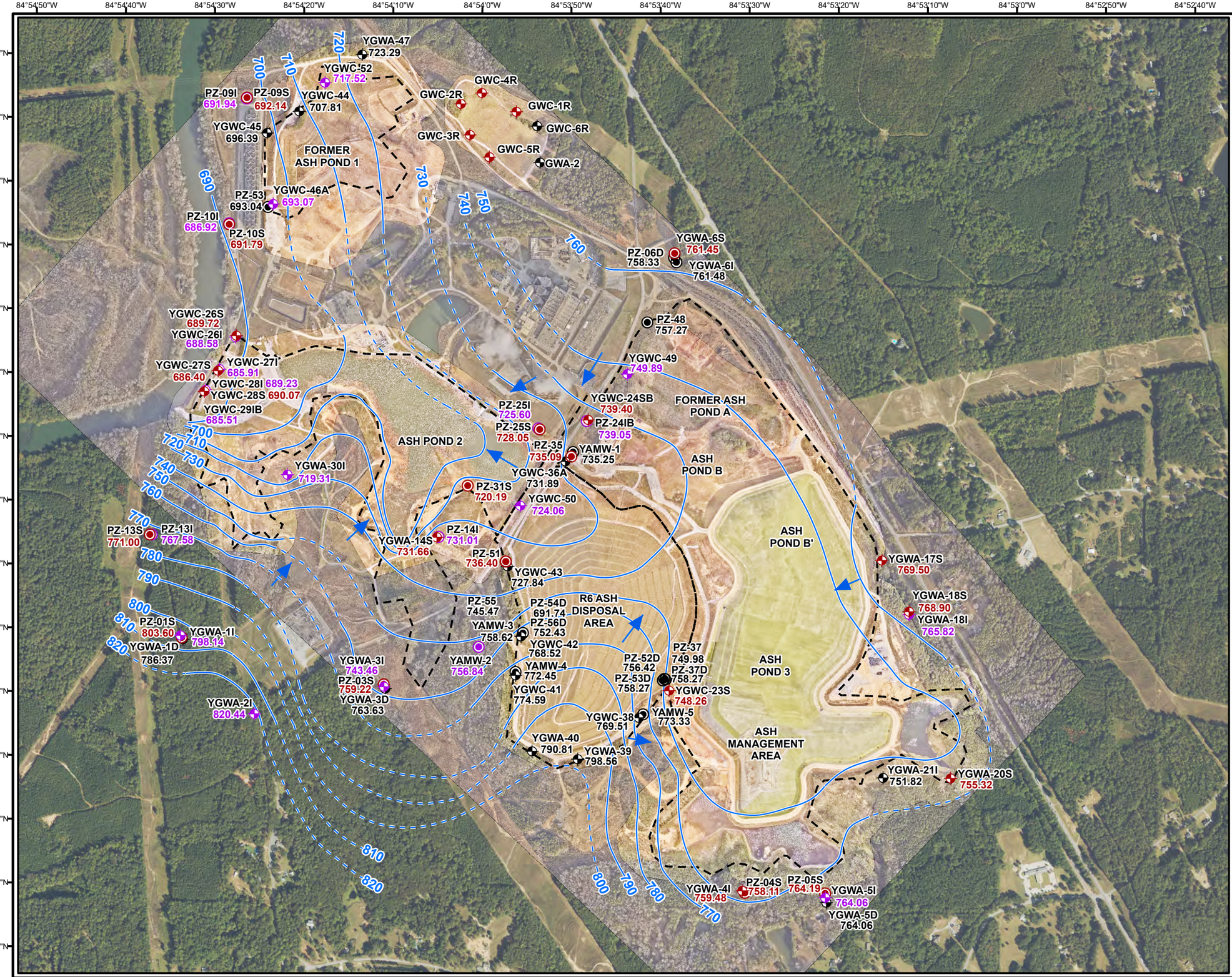
SITEWIDE GROUNDWATER ELEVATION MAP FEBRUARY 2024

ARCADIS

FIGURE **4**

84°54'50"W 84°54'40"W 84°54'30"W 84°54'20"W 84°54'10"W 84°54'0"W 84°53'50"W 84°53'40"W 84°53'30"W 84°53'20"W 84°53'10"W 84°53'0"W 84°52'50"W 84°52'40"W

33°28'6"N 33°28'0"N 33°27'54"N 33°27'48"N 33°27'42"N 33°27'36"N 33°27'30"N 33°27'24"N 33°27'18"N 33°27'12"N 33°27'6"N 33°27'0"N 33°26'54"N 33°26'48"N 33°26'42"N



LEGEND

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

757.11 GROUNDWATER ELEVATION (FEET)

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELLS YGWA-40, YGWA-39, YGWC-38, YGWC-41, YGWC-42 USED FOR CONTOURING. ALL OTHER BEDROCK WELLS NOT USED TO CREATE CONTOURS.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 19, 2024.

7. WELL LOCATIONS AT FORMER GYPSUM LANDFILL NOT GAUGED.

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER

0 450 900 1,800

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA

2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

SITEWIDE GROUNDWATER ELEVATION MAP AUGUST 2024

ARCADIS

FIGURE **5**

84°54'42"W 84°54'36"W 84°54'30"W 84°54'24"W 84°54'18"W 84°54'12"W 84°54'6"W 84°54'0"W 84°53'54"W 84°53'48"W

33°27'40"N
33°27'36"N
33°27'32"N
33°27'28"N
33°27'24"N
33°27'20"N
33°27'16"N
33°27'12"N
33°27'8"N
33°27'4"N

YGWC-26S 690.28
YGWC-26I 689.19
YGWC-27I 687.81
YGWC-27S 688.20
YGWC-28I 690.17
YGWC-28S 690.67
YGWC-29IB 687.28
ASH POND 2
YGWA-30I 717.35
PZ-25I 722.15
PZ-25S 723.90
ASH MANAGEMENT AREA
PZ-31S 715.78
PZ-14I 729.64
YGWA-14S 730.23
PZ-13S 770.34
PZ-13I 766.02
R6 ASH DISPOSAL AREA
YGWA-1I 797.04
PZ-01S 802.48
YGWA-1D 786.15
PZ-03S 758.14
YGWA-3I 744.14
YGWA-3D 763.63
YGWA-2I 819.33

700 710 720 730 740 750 760 770 780 790 800 810 820

LEGEND

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

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER JON C. REYNOLDS

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELL GROUNDWATER ELEVATIONS NOT USED FOR CONTOURING.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/ TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: JANUARY 22, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

6. GROUNDWATER ELEVATIONS COLLECTED ON FEBRUARY 19, 2024.

0 200 400 800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP FEBRUARY 2024

ARCADIS

FIGURE **6**

84°54'42"W 84°54'36"W 84°54'30"W 84°54'24"W 84°54'18"W 84°54'12"W 84°54'6"W 84°54'0"W 84°53'54"W 84°53'48"W

33°27'40"N
33°27'36"N
33°27'32"N
33°27'28"N
33°27'24"N
33°27'20"N
33°27'16"N
33°27'12"N
33°27'8"N
33°27'4"N

YGWC-26S 689.72
YGWC-26I 688.58
YGWC-27I 685.91
YGWC-27S 686.40
YGWC-28I 689.23
YGWC-28S 690.07
YGWC-29IB 685.51
YGWA-30I 719.31
PZ-25I 725.60
PZ-25S 728.05
PZ-31S 720.19
PZ-14I 731.01
YGWA-14S 731.66
PZ-13S 771.00
PZ-13I 767.58
YGWA-1I 798.14
PZ-01S 803.60
YGWA-1D 786.37
PZ-03S 759.22
YGWA-3I 743.46
YGWA-3D 763.63
YGWA-2I 820.44

ASH POND 2
ASH MANAGEMENT AREA
R6 ASH DISPOSAL AREA

690 700 710 720 730 740 750 760 770 780 790 800 810 820

LEGEND

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

690.92 GROUNDWATER ELEVATION (FEET)

GEORGIA REGISTERED No. PE027801 PROFESSIONAL ENGINEER GEOLOGIST

NOTES:

1. SHALLOW GROUNDWATER ELEVATIONS ARE DERIVED FROM SOIL COMPRISED OF SAPROLITE, RANGING FROM 15 - 60 FEET BELOW GROUND SURFACE.

2. BEDROCK WELL GROUNDWATER ELEVATIONS NOT USED FOR CONTOURING.

3. SAPROLITE WELL GROUNDWATER ELEVATIONS WERE USED FOR CONTOURING FOR SAPROLITE/ TRANSITION ZONE/BEDROCK WELL CLUSTER LOCATIONS.

4. AERIAL IMAGE SOURCES: JANUARY 22, 2024; JUNE 20, 2024 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2023 IMAGERY.

5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

6. GROUNDWATER ELEVATIONS COLLECTED ON AUGUST 19, 2024.

0 200 400 800
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES AP-2
NEWNAN, GA
2024 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

GROUNDWATER ELEVATION MAP AUGUST 2024

ARCADIS

FIGURE 7

Appendix A

Field Sampling Forms (February and August 2024) and Well Repair Documentation

February 2024

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Mark Chest

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	747642
Turbidity Meter	Geotech	--

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start: 8:00			**Time Finish: 8:25**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	8.28	± 0.1	GWMP
pH (SU)	7.00	7.06	7.79	± 0.1	GWMP
pH (SU)	10.00	10.14	10.54	± 0.1	GWMP
D.O. (%)	N/A	100.00	13.48	± 10%	NA
ORP (mV)	240.0	244.9	12.87	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	111		
	800	815		
	<0.10	0.02		

Calibration Check					
Time Start: 13:55			**Time Finish: 14:10**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.51	± 0.1	GWMP
pH (SU)	7.00	7.04	16.01	± 0.1	GWMP
pH (SU)	10.00	10.11	15.98	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.7	± 10% of standard	EPA 2023
	100	101		
	800	800		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: Mark Chest

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	747642
Turbidity Meter	Geotech	--

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:25			**Time Finish 8:50**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	15.78	± 0.1	GWMP
pH (SU)	7.00	7.04	16.07	± 0.1	GWMP
pH (SU)	10.00	10.11	16.02	± 0.1	GWMP
D.O. (%)	N/A	100.00	16.22	± 10%	NA
ORP (mV)	240.0	238.8	17.55	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	101		
	800	800		
	<0.10	0.02		

Calibration Check					
Time Start NA			**Time Finish NA**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	--	--	--	± 10% of standard	EPA 2023
pH (SU)	--	--	--	± 0.1	GWMP
pH (SU)	--	--	--	± 0.1	GWMP
pH (SU)	--	--	--	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	--	--	± 10% of standard	EPA 2023
	--	--		
	--	--		
	--	--		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867050
Turbidity Meter	Geotech	1069473

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:35		**Time Finish 8:05**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (^{o}C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	11.72	± 0.1	GWMP
pH (SU)	7.00	7.06	12.20	± 0.1	GWMP
pH (SU)	10.00	10.14	11.99	± 0.1	GWMP
D.O. (%)	N/A	100.00	12.58	± 10%	NA
ORP (mV)	229.0	229.0	12.09	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	18.2	± 10% of standard	EPA 2023
	100	105		
	800	800		
	<0.10	0.11		

Calibration Check					
Time Start 13:45		**Time Finish 14:00**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (^{o}C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	14.23	± 0.1	GWMP
pH (SU)	7.00	7.04	14.13	± 0.1	GWMP
pH (SU)	10.00	10.11	14.48	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	100		
	800	813		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867050
Turbidity Meter	Geotech	1069473

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:20			**Time Finish 7:40**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	15.93	± 0.1	GWMP
pH (SU)	7.00	7.04	16.46	± 0.1	GWMP
pH (SU)	10.00	10.11	15.98	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.92	± 10%	NA
ORP (mV)	229.0	229.0	15.51	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	22.2	± 10% of standard	EPA 2023
	100	100		
	800	793		
	<0.10	0.12		

Calibration Check					
Time Start 14:35			**Time Finish 14:50**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.79	± 0.1	GWMP
pH (SU)	7.00	7.02	21.90	± 0.1	GWMP
pH (SU)	10.00	10.05	21.47	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.4	± 10% of standard	EPA 2023
	100	110		
	800	808		
	<0.10	0.11		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/22/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867050
Turbidity Meter	Geotech	1069473

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:15			**Time Finish 7:35**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.18	± 0.1	GWMP
pH (SU)	7.00	7.04	16.64	± 0.1	GWMP
pH (SU)	10.00	10.11	16.31	± 0.1	GWMP
D.O. (%)	N/A	100.00	16.09	± 10%	NA
ORP (mV)	229.0	229.0	16.30	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	21.4	± 10% of standard	EPA 2023
	100	114		
	800	816		
	<0.10	0.14		

Calibration Check					
Time Start 12:30			**Time Finish 12:50**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	19.66	± 0.1	GWMP
pH (SU)	7.00	7.02	20.72	± 0.1	GWMP
pH (SU)	10.00	10.05	20.80	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.3	± 10% of standard	EPA 2023
	100	102		
	800	814		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/23/2024

Calibrated By: Kim Lapszynski

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	867050
Turbidity Meter	Geotech	1069473

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	18.42	± 0.1	GWMP
pH (SU)	7.00	7.02	18.59	± 0.1	GWMP
pH (SU)	10.00	10.05	10.05	± 0.1	GWMP
D.O. (%)	N/A	100.00	17.97	± 10%	NA
ORP (mV)	240.0	238.1	18.09	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	22.9	± 10% of standard	EPA 2023
	100	101		
	800	805		
	<0.10	0.08		

Calibration Check					
Time Start 11:35		**Time Finish 11:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.91	± 0.1	GWMP
pH (SU)	7.00	7.02	18.11	± 0.1	GWMP
pH (SU)	10.00	10.05	17.75	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	21.1	± 10% of standard	EPA 2023
	100	101		
	800	810		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Jake Swanson

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	808988
Turbidity Meter	Geotech	--

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:40			**Time Finish 8:05**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,409	1,409	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	7.70	± 0.1	GWMP
pH (SU)	7.00	7.06	6.92	± 0.1	GWMP
pH (SU)	10.00	10.14	10.74	± 0.1	GWMP
D.O. (%)	N/A	100.00	12.31	± 10%	NA
ORP (mV)	240.0	246.1	11.99	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Calibration Check					
Time Start 12:10			**Time Finish 12:35**		
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,409	1,409	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.08	± 0.1	GWMP
pH (SU)	7.00	7.04	16.04	± 0.1	GWMP
pH (SU)	10.00	10.11	15.74	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	865176
Turbidity Meter	Geotech	19022029

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 8:45		**Time Finish 9:10**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	12.12	± 0.1	GWMP
pH (SU)	7.00	7.06	12.15	± 0.1	GWMP
pH (SU)	10.00	10.14	12.19	± 0.1	GWMP
D.O. (%)	N/A	100.00	13.10	± 10%	NA
ORP (mV)	240.0	245.2	12.71	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	101		
	800	799		
	<0.10	0.12		

Calibration Check					
Time Start 14:50		**Time Finish 15:15**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.31	± 0.1	GWMP
pH (SU)	7.00	7.04	17.22	± 0.1	GWMP
pH (SU)	10.00	10.11	16.97	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20	± 10% of standard	EPA 2023
	100	100		
	800	799		
	<0.10	0.17		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	865176
Turbidity Meter	Geotech	19022029

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:15		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.22	± 0.1	GWMP
pH (SU)	7.00	7.04	16.99	± 0.1	GWMP
pH (SU)	10.00	10.11	16.16	± 0.1	GWMP
D.O. (%)	N/A	100.00	18.01	± 10%	NA
ORP (mV)	240.0	240.9	15.98	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	101		
	800	801		
	<0.10	0.1		

Calibration Check					
Time Start 11:50		**Time Finish 12:15**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.35	± 0.1	GWMP
pH (SU)	7.00	7.02	19.96	± 0.1	GWMP
pH (SU)	10.00	10.05	18.05	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.0	± 10% of standard	EPA 2023
	100	101		
	800	800		
	<0.10	0.11		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/22/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	865176
Turbidity Meter	Geotech	19022029

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:30		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	17.46	± 0.1	GWMP
pH (SU)	7.00	7.02	17.75	± 0.1	GWMP
pH (SU)	10.00	10.05	17.55	± 0.1	GWMP
D.O. (%)	N/A	100.00	18.61	± 10%	NA
ORP (mV)	240.0	239.4	17.13	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	101		
	800	802		
	<0.10	0.12		

Calibration Check					
Time Start 13:05		**Time Finish 13:20**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.93	± 0.1	GWMP
pH (SU)	7.00	7.02	18.72	± 0.1	GWMP
pH (SU)	10.00	10.11	17.40	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.1	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.12		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/23/2024

Calibrated By: David Prouty

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	865176
Turbidity Meter	Geotech	19022029

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:15		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	18.36	± 0.1	GWMP
pH (SU)	7.00	7.02	18.74	± 0.1	GWMP
pH (SU)	10.00	10.05	19.30	± 0.1	GWMP
D.O. (%)	N/A	100.00	19.19	± 10%	NA
ORP (mV)	240.0	240.4	16.35	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.09		

Calibration Check					
Time Start NA		**Time Finish NA**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	--	--	--	± 10% of standard	EPA 2023
pH (SU)	--	--	--	± 0.1	GWMP
pH (SU)	--	--	--	± 0.1	GWMP
pH (SU)	--	--	--	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	--	--	± 10% of standard	EPA 2023
	--	--		
	--	--		
	--	--		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/20/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963011
Turbidity Meter	Geotech	23064780

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:35		**Time Finish 8:00**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	11.60	± 0.1	GWMP
pH (SU)	7.00	7.06	11.98	± 0.1	GWMP
pH (SU)	10.00	10.14	11.83	± 0.1	GWMP
D.O. (%)	N/A	100.00	11.44	± 10%	NA
ORP (mV)	229.0	229.0	12.04	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	97.1		
	800	805		
	<0.10	0.02		

Calibration Check					
Time Start 12:10		**Time Finish 12:20**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	12.06	± 0.1	GWMP
pH (SU)	7.00	7.06	12.01	± 0.1	GWMP
pH (SU)	10.00	10.14	11.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	19.4	± 10% of standard	EPA 2023
	100	99.5		
	800	799		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/21/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963011
Turbidity Meter	Geotech	23064780

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:35		**Time Finish 8:00**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	15.39	± 0.1	GWMP
pH (SU)	7.00	7.04	15.88	± 0.1	GWMP
pH (SU)	10.00	10.11	15.67	± 0.1	GWMP
D.O. (%)	N/A	100.00	15.75	± 10%	NA
ORP (mV)	229.0	229.0	15.62	± 10	EPA 2024

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	101		
	800	803		
	<0.10	0.02		

Calibration Check					
Time Start 14:30		**Time Finish 14:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.84	± 0.1	GWMP
pH (SU)	7.00	7.00	26.96	± 0.1	GWMP
pH (SU)	10.00	10.00	24.75	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	20	20.2	± 10% of standard	EPA 2023
	100	100		
	800	800		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/22/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963011
Turbidity Meter	Geotech	23064780

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:25		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	16.53	± 0.1	GWMP
pH (SU)	7.00	7.04	16.63	± 0.1	GWMP
pH (SU)	10.00	10.11	16.62	± 0.1	GWMP
D.O. (%)	N/A	100.00	16.71	± 10%	NA
ORP (mV)	229.0	229.0	16.75	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.9	± 10% of standard	EPA 2023
	100	99.7		
	800	800		
	<0.10	0.04		

Calibration Check					
Time Start 15:05		**Time Finish 15:25**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.06	± 0.1	GWMP
pH (SU)	7.00	7.02	22.50	± 0.1	GWMP
pH (SU)	10.00	10.05	22.26	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	20.5	± 10% of standard	EPA 2023
	100	100		
	800	806		
	<0.10	0.02		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 2/23/2024

Calibrated By: Jessica Ware

Field Conditions: Sunny, Cold

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963011
Turbidity Meter	Geotech	23064780

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	3G01148	Apr-24	Insitu
pH (SU)	4.00	3GD708	Apr-25	Insitu
pH (SU)	7.00	3GE0720	May-25	Insitu
pH (SU)	10.00	3GD1219	Apr-25	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	3GF0202	Mar-24	Insitu

Calibration					
Time Start 7:25		**Time Finish 8:05**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	18.60	± 0.1	GWMP
pH (SU)	7.00	7.02	18.35	± 0.1	GWMP
pH (SU)	10.00	10.05	18.42	± 0.1	GWMP
D.O. (%)	N/A	100.00	18.18	± 10%	NA
ORP (mV)	240.0	240.0	17.94	± 10	EPA 2024

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.6	± 10% of standard	EPA 2023
	100	101		
	800	806		
	<0.10	0.03		

Calibration Check					
Time Start 13:25		**Time Finish 13:40**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.58	± 0.1	GWMP
pH (SU)	7.00	7.00	23.82	± 0.1	GWMP
pH (SU)	10.00	10.00	23.67	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	20	19.9	± 10% of standard	EPA 2023
	100	101		
	800	806		
	<0.10	0.02		

Notes:

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	2/19/2024
Sampler:	Jake Swanson Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-26S	2/19/2024	11:30:00	26.00	40.18	--
YGWC-26I	2/19/2024	11:30:00	26.72	69.81	--
YGWC-29IB	2/19/2024	11:41:00	25.60	40.88	--
YGWC-28S	2/19/2024	11:50:00	27.28	44.95	--
YGWC-28I	2/19/2024	11:50:00	27.76	69.93	--
YGWC-27I	2/19/2024	11:56:00	28.38	79.99	--
YGWC-27S	2/19/2024	11:56:00	28.32	40.52	--
PZ-25S	2/19/2024	12:14:00	42.70	56.80	--
PZ-25I	2/19/2024	12:16:00	44.23	84.58	--
PZ-14I	2/19/2024	13:17:00	19.42	50.86	--
PZ-31S	2/19/2024	13:21:00	22.84	34.72	--
PZ-13S	2/19/2024	13:41:00	37.45	43.79	--
PZ-13I	2/19/2024	13:42:00	41.60	59.22	--
PZ-1S	2/19/2024	13:47:00	34.36	36.34	--
PZ-3S	2/19/2024	13:47:00	38.25	42.39	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/21/2024 3:11:24 PM +00:00

Project Number	30143608	**Well ID**	YGWC-27S			**Date**	2/21/2024
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	30.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.28	**Total Depth (ft-bmp)**	40.52	**Water Column(ft)**	11.24	**Gallons in Well**	1.83
MP Elevation	716.52	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	09:40	**Well Volumes Purged**	0.43	**Sample ID**	YAT-YGWC-27S	**Sampled by**	David Prouty
Purge Start	09:08	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	09:38						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:08:00	00:00	100	29.28	6.39	256.49	5.62	7.71	14.80	213.16
9:13:00	05:00	100	29.32	6.24	247.16	4.72	2.20	16.50	208.11
9:18:00	10:00	100	29.32	6.26	247.33	3.09	1.48	16.70	199.52
9:23:00	15:00	100	29.32	6.27	247.46	2.66	1.11	17.00	191.24
9:28:00	20:00	100	29.32	6.28	247.26	1.44	0.99	16.80	188.14
9:33:00	25:00	100	29.32	6.29	246.10	0.22	0.87	17.20	183.11
9:38:00	30:00	100	29.32	6.26	248.59	0.27	0.86	17.00	182.45

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
FlSulfateChloride	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/21/2024 4:40:20 PM +00:00

Project Number	30143608	**Well ID**	YGWC-27I			**Date**	2/21/2024
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing SE at 4.7 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.69	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.38	**Total Depth (ft-bmp)**	79.99	**Water Column(ft)**	50.61	**Gallons in Well**	8.22
MP Elevation	716.19	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	11:05	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YGWC-27I	**Sampled by**	David Prouty
Purge Start	10:33	**Gallons Purged**	0.69	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:01						

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)
10:33:00	00:00	100	29.38	8.02	287.66	3.36	9.66	16.20	196.08
10:39:00	05:45	100	29.58	6.51	298.36	2.46	2.61	16.90	69.84
10:44:00	10:45	100	29.57	6.33	305.58	3.94	1.39	17.20	43.24
10:49:00	16:14	100	29.57	6.36	313.91	2.54	1.11	17.00	30.64
10:54:00	21:14	100	29.57	6.40	314.89	3.91	0.97	17.30	25.68
10:59:00	26:14	100	29.57	6.43	314.66	0.96	0.94	17.30	22.86

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
FlChlorideSulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/21/2024 8:47:19 PM +00:00

Project Number	30143608	**Well ID**	YGWC-28S			**Date**	2/21/2024
Project Location	AP-2		**Weather(°F)**	62.1 degrees F and Clear. The wind is blowing S/SW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	34.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.4	**Total Depth (ft-bmp)**	44.95	**Water Column(ft)**	17.55	**Gallons in Well**	2.85
MP Elevation	717.95	**Pump Intake (ft-bmp)**	40	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	14:45	**Well Volumes Purged**	0.76	**Sample ID**	YAT-YGWC-28S	**Sampled by**	David Prouty
Purge Start	13:03	**Gallons Purged**	2.17	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:43						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:03:00	00:00	100	27.52	6.21	416.82	62.40	2.55	18.50	-26.37
13:08:00	05:00	100	27.49	6.25	426.59	42.00	0.97	19.30	-39.47
13:13:00	10:00	80	27.46	6.30	435.14	29.80	0.71	18.90	-46.50
13:18:00	15:00	80	27.46	6.34	439.59	24.40	0.72	18.90	-49.65
13:23:00	20:00	80	27.46	6.37	436.31	20.30	0.69	18.80	-50.69
13:28:00	25:00	80	27.46	6.40	435.92	18.20	0.75	18.70	-51.15
13:33:00	30:00	80	27.46	6.41	438.19	16.90	0.72	18.70	-52.46
13:38:00	35:00	80	27.46	6.44	438.93	13.20	0.99	19.10	-52.00
13:43:00	40:00	80	27.46	6.45	438.34	12.50	0.93	19.30	-53.11
13:48:00	45:00	80	27.46	6.47	438.11	10.60	0.94	19.20	-53.74
13:53:00	50:00	80	27.46	6.48	437.65	8.78	0.96	19.40	-53.62
13:58:00	55:00	80	27.46	6.48	437.54	9.20	1.03	19.20	-53.79
14:03:00	00:00	80	27.46	6.48	435.85	8.13	1.02	19.40	-54.09
14:08:00	05:00	80	27.46	6.49	431.22	8.76	1.03	19.40	-54.73
14:13:00	10:00	80	27.46	6.49	435.49	8.82	0.97	19.30	-55.03
14:18:00	15:00	80	27.46	6.49	434.12	8.98	1.00	19.30	-55.11
14:23:00	20:00	80	27.46	6.49	434.86	7.32	1.05	19.30	-55.47
14:28:00	25:00	80	27.46	6.49	431.67	6.34	0.82	18.60	-56.31
14:33:00	30:00	80	27.46	6.48	432.80	5.14	0.76	18.70	-57.72
14:38:00	35:00	80	27.46	6.49	432.69	5.00	0.70	18.90	-59.69
14:43:00	40:00	80	27.46	6.49	435.90	4.14	0.73	18.80	-60.41

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
FlChlorideSulfate	250 mL Plastic	1	None

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Collected AP2-EB-1 and AP2-FB-1

Well Casing Volume Conversion

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

Well Information

Well Location:

Condition of Well:

Well Completion:

Well Locked at Arrival:

Well Locked at Departure:

Key Number To Well:

Groundwater Sampling Form

Updated : 2/21/2024 11:17:40 PM +00:00

Project Number	30143608	**Well ID**	YGWC-28I			**Date**	2/21/2024
Project Location	AP-2		**Weather(°F)**	66.6 degrees F and Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.63	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.03	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	41.90	**Gallons in Well**	6.81
MP Elevation	717.93	**Pump Intake (ft-bmp)**	64	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	16:35	**Well Volumes Purged**	0.10	**Sample ID**	YAT-YGWC-28I	**Sampled by**	David Prouty
Purge Start	16:05	**Gallons Purged**	0.66	**Replicate/ Code No.**	YAT-AP2-FD-1	**Color**	Clear
Purge End	16:32						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:05:00	00:00	100	28.44	6.54	304.01	2.64	3.46	18.70	53.42
16:10:00	05:00	100	28.4	6.41	303.74	1.14	2.29	19.00	73.85
16:15:00	10:00	100	28.39	6.39	304.86	2.83	1.86	18.80	86.22
16:20:00	15:00	100	28.39	6.40	304.41	0.80	1.64	18.50	95.10
16:25:00	20:00	100	28.39	6.42	303.39	0.48	1.56	18.50	100.15
16:30:00	25:00	100	28.39	6.43	302.20	1.75	1.54	18.30	105.51

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	2	None
FlChlorideSulfate	250 mL Plastic	2	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	4	HNO3
TDS	500 mL Plastic	2	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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/22/2024 4:58:26 PM +00:00

Project Number	30143608	**Well ID**	YGWC-26S			**Date**	2/22/2024
Project Location	AP-2		**Weather(°F)**	It is Clear. The wind is blowing SW at 11.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	26	**Total Depth (ft-bmp)**	40.18	**Water Column(ft)**	14.18	**Gallons in Well**	2.30
MP Elevation	716.28	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:15	**Well Volumes Purged**	0.34	**Sample ID**	YAT-YGWC-26S	**Sampled by**	David Prouty
Purge Start	09:40	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:10						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:40:00	00:00	100	26.33	5.61	272.79	5.97	2.92	16.30	207.36
9:45:00	05:00	100	26.7	5.56	272.13	14.80	1.45	15.60	208.25
9:50:00	10:00	100	26.59	5.56	274.79	6.48	0.60	15.60	202.48
9:55:00	15:00	100	26.59	5.57	273.84	5.34	0.51	15.70	197.77
10:00:00	20:00	100	26.59	5.58	275.15	4.92	0.48	15.70	196.30
10:05:00	25:00	100	26.59	5.58	274.87	4.99	0.52	15.90	194.54
10:10:00	30:00	100	26.59	5.58	274.47	4.27	0.52	15.90	194.45

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
FlChlorideSulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/22/2024 7:44:11 PM +00:00

Project Number	30143608	**Well ID**	YGWC-29IB			**Date**	2/22/2024
Project Location	AP-2		**Weather(°F)**	67.6 degrees F and Clear. The wind is blowing SW at 6.9 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	30.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	26.03	**Total Depth (ft-bmp)**	40.88	**Water Column(ft)**	14.85	**Gallons in Well**	2.41
MP Elevation	712.88	**Pump Intake (ft-bmp)**	24.88	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	14:10	**Well Volumes Purged**	0.28	**Sample ID**	YGWC-29IB	**Sampled by**	David Prouty
Purge Start	13:41	**Gallons Purged**	0.68	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:06						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:41:00	00:00	100	26.29	5.78	193.21	1.83	0.72	19.00	200.45
13:46:00	05:00	100	26.27	5.79	193.72	1.90	0.37	18.80	199.13
13:51:00	10:44	100	26.27	5.88	197.21	1.96	0.25	19.10	179.95
13:56:00	15:44	100	26.27	5.94	201.63	1.26	0.21	19.00	178.74
14:01:00	20:44	100	26.27	5.99	202.14	0.91	0.17	19.20	174.74
14:06:00	25:44	100	26.27	6.01	203.33	1.54	0.15	19.40	172.71

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
FlChlorideSulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/22/2024 7:44:12 PM +00:00

Project Number	30143608	**Well ID**	YGWC-26I			**Date**	2/22/2024
Project Location	AP-2		**Weather(°F)**	61.0 degrees F and Clear. The wind is blowing W/SW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	26.97	**Total Depth (ft-bmp)**	69.81	**Water Column(ft)**	42.84	**Gallons in Well**	6.96
MP Elevation	715.91	**Pump Intake (ft-bmp)**	61	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:00	**Well Volumes Purged**	0.13	**Sample ID**	YAT-YGWC-26I	**Sampled by**	David Prouty
Purge Start	11:19	**Gallons Purged**	0.94	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:55						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:19:00	00:00	100	27.05	7.03	304.47	4.97	8.97	17.50	160.49
11:24:00	05:00	100	27.05	6.21	294.65	0.96	3.82	17.80	12.80
11:29:00	10:33	100	27.1	5.95	290.28	1.25	1.23	18.20	56.15
11:34:00	15:33	100	27.1	5.92	289.72	1.63	0.89	18.30	101.90
11:39:00	20:33	100	27.1	5.92	289.23	2.60	0.79	18.30	134.77
11:44:00	25:33	100	27.1	5.92	289.34	0.18	0.67	18.50	154.00
11:49:00	30:33	100	27.1	5.92	290.63	0.57	0.56	18.40	165.49
11:54:00	35:33	100	27.1	5.92	290.90	0.57	0.50	18.50	174.03

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
FlChlorideSulfate	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____
Condition of Well: _____
Well Completion: _____
Well Locked at Arrival: _____
Well Locked at Departure: _____
Key Number To Well: _____

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26S
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	11:30:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	11:30:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-29IB
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	11:41:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28S
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	11:50:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	11:50:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	11:56:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27S
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	11:56:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25S
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	12:14:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	12:16:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-14I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:17:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-31S
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:21:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13S
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:41:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:42:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-1S
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:47:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-3S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:47:00

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

Upgradient Wells

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-1
Date:	2/19/2024
Sampler:	Jake Swanson Jessica Ware
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-47	2/19/2024	09:16:00	36.25	59.19	--
GWA-2	2/19/2024	09:57:00	38.11	52.13	--
YGWA-18I	2/19/2024	11:19:00	24.78	79.97	--
YGWA-18S	2/19/2024	11:22:00	22.11	39.97	--
YGWA-17S	2/19/2024	11:27:00	12.21	39.85	--
YGWA-39	2/19/2024	11:51:00	21.03	68.59	--
YGWA-40	2/19/2024	12:12:00	24.99	48.23	--
YGWA-14S	2/19/2024	12:16:00	18.53	34.96	--
YGWA-30I	2/19/2024	13:29:00	45.23	59.48	--
YGWA-3D	2/19/2024	13:43:00	33.15	134.18	--
YGWA-3I	2/19/2024	13:45:00	52.41	59.05	--
YGWA-1I	2/19/2024	13:47:00	39.56	53.60	--
YGWA-1D	2/19/2024	13:52:00	51.10	128.85	--
YGWA-2I	2/19/2024	13:56:00	46.92	63.75	--
YGWA-20S	2/19/2024	14:04:00	11.25	29.52	--
YGWA-21I	2/19/2024	14:10:00	31.61	79.90	--
YGWA-5D	2/19/2024	14:19:00	20.07	129.13	--
YGWA-5I	2/19/2024	14:20:00	21.00	58.94	--
YGWA-4I	2/19/2024	14:26:00	25.20	48.81	--

Groundwater Sampling Form

Updated : 2/20/2024 3:46:54 PM +00:00

Project Number	30143607	**Well ID**	YGWA-47			**Date**	2/20/2024
Project Location	AP-1		**Weather(°F)**	It is Partly Cloudy. The wind is blowing undefined at 0.0 mph. 44 F			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.4	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	36.23	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	22.96	**Gallons in Well**	3.73
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:30	**Well Volumes Purged**	0.32	**Sample ID**	YGWA-47	**Sampled by**	Jake Swanson
Purge Start	10:02	**Gallons Purged**	1.20	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:25						

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	36.23	5.66	175.18	0.65	3.74	16.80	193.93
10:05:00	02:47	200	37.06	5.63	172.62	0.65	2.91	17.00	199.52
10:10:00	07:47	200	37.23	5.61	174.48	0.22	2.40	16.90	202.31
10:15:00	12:47	200	37.26	5.61	184.07	0.20	2.27	17.00	205.61
10:20:00	17:47	200	37.28	5.61	184.23	0.24	2.19	17.10	207.49
10:25:00	22:47	200	37.27	5.62	184.00	0.02	2.14	17.20	209.74

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

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 4:42:30 PM +00:00

Project Number	30143623	**Well ID**	YGWA-4I			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	It is Mostly Cloudy. The wind is blowing N at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	25.18	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	23.63	**Gallons in Well**	3.84
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:10	**Well Volumes Purged**	0.16	**Sample ID**	YAT-YGWA-4I	**Sampled by**	Kim Lapszynski
Purge Start	10:47	**Gallons Purged**	0.63	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:47:00	00:00	150	25.18	7.12	126.56	1.43	9.25	12.50	156.51
10:52:00	05:00	125	25.79	6.27	134.90	0.33	3.65	14.10	151.13
10:57:00	10:00	100	25.98	6.23	136.41	0.52	2.17	14.70	147.22
11:02:00	15:00	100	26.08	6.21	136.58	0.35	2.13	14.80	145.79
11:07:00	20:00	100	26.17	6.21	135.74	0.14	2.02	14.90	141.24

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 5:39:30 PM +00:00

Project Number	30052922	**Well ID**	YGWA-1I			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	54.0 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	43.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	39.54	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	14.06	**Gallons in Well**	2.28
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:02	**Well Volumes Purged**	1.22	**Sample ID**	YAT-YGWA-1I	**Sampled by**	Mark Chest
Purge Start	10:24	**Gallons Purged**	2.77	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:59						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:24:00	00:00	200	39.54	6.96	61.29	0.61	10.34	13.30	203.36
10:29:00	05:00	200	44.05	6.23	48.83	0.38	2.10	16.00	79.79
10:34:00	10:00	200	44.75	6.15	47.95	0.45	4.42	16.10	96.60
10:39:00	15:00	200	45.23	6.14	61.70	0.63	1.28	16.20	62.10
10:44:00	20:00	200	45.78	6.08	55.38	0.93	1.34	16.10	89.36
10:49:00	25:00	200	46.25	6.11	57.33	0.23	0.44	16.10	93.81
10:54:00	30:00	100	46.95	6.26	63.76	0.02	0.26	16.00	38.79
10:59:00	35:00	100	47.88	6.46	78.04	0.10	0.23	15.90	-41.72
11:04:00	40:00	100	48.5	6.58	82.00	0.54	0.20	15.80	-86.39
11:09:00	45:00	100	48.5	6.62	78.95	1.30	0.70	15.80	-80.24
11:14:00	50:00	75	48.5	6.63	73.59	13.30	2.09	15.60	-52.91
11:19:00	55:00	75	48.5	6.62	66.93	15.50	3.40	15.70	-32.99
11:24:00	00:00	50	48.5	6.54	59.77	13.40	5.10	15.60	-8.11
11:29:00	05:00	50	48.5	6.45	55.06	10.20	6.12	15.60	8.94
11:34:00	10:00	50	48.5	6.46	51.21	7.88	6.85	15.60	18.49
11:39:00	15:00	50	48.5	6.51	49.19	5.03	7.32	15.70	24.61
11:44:00	20:00	50	48.5	6.49	48.08	4.87	7.63	15.70	33.23
11:49:00	25:00	50	48.5	6.46	47.38	2.75	7.85	15.80	39.43
11:54:00	30:00	50	48.5	6.44	46.89	2.91	8.03	15.70	46.06
11:59:00	35:00	50	48.5	6.42	46.60	2.54	8.16	15.80	51.25

Constituent Sampled	Container	Number	Preservative
ALK	250 mL Plastic	1	None
Cl, F, SO4	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3

Groundwater Sampling Form

RAD Chem	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: Sampling Turbidity 1.35 NTU

Well Casing Volume Conversion

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

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 5:44:37 PM +00:00

Project Number	30143608	**Well ID**	GWA-2			**Date**	2/20/2024
Project Location	Gypsum Landfill		**Weather(°F)**	It is Mostly Cloudy. The wind is blowing N at 3.4 mph. 48F			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	42.1	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	38.1	**Total Depth (ft-bmp)**	52.13	**Water Column(ft)**	14.03	**Gallons in Well**	2.28
MP Elevation	805.62	**Pump Intake (ft-bmp)**	47	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	11:50	**Well Volumes Purged**	0.48	**Sample ID**	GWA-2	**Sampled by**	Jake Swanson
Purge Start	11:19	**Gallons Purged**	1.09	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:44						

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)
11:19:00	00:00	200	38.1	6.62	273.64	1.02	8.90	15.20	199.97
11:24:00	05:00	200	39.11	6.16	333.29	0.02	1.47	17.00	99.69
11:29:00	10:00	150	39.47	6.11	321.48	0.02	0.58	17.00	112.65
11:34:00	15:00	150	39.72	6.09	303.94	0.02	0.41	16.80	125.70
11:39:00	20:00	125	39.81	6.08	295.88	0.02	0.33	16.60	130.81
11:44:00	25:00	125	39.82	6.07	291.98	0.02	0.26	16.60	130.98

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

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

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Updated : 2/20/2024 5:58:21 PM +00:00

Project Number	30143608	**Well ID**	YGWA-3D			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	55.8 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	83.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	33.25	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	100.93	**Gallons in Well**	16.40
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	11:35	**Well Volumes Purged**	0.05	**Sample ID**	YAT-YGWA-3D	**Sampled by**	David Prouty
Purge Start	11:00	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:30						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:00:00	00:00	100	33.3	7.54	219.66	1.07	7.99	13.80	205.24
11:05:00	05:00	100	33.3	7.15	216.12	2.57	0.93	15.40	-65.65
11:10:00	10:00	100	33.3	7.56	216.72	3.44	0.32	15.40	-67.69
11:15:00	15:00	100	33.3	7.72	216.12	0.91	0.30	15.00	-74.60
11:20:00	20:00	100	33.3	7.79	216.36	2.20	0.25	14.90	-90.38
11:25:00	25:00	100	33.3	7.82	216.35	2.21	0.22	14.90	-105.05
11:30:00	30:00	100	33.3	7.81	216.38	2.99	0.21	15.00	-112.07

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
SulfateChloride	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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 5:59:52 PM +00:00

Project Number	30143622	**Well ID**	YGWA-17S			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	12.23	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	27.62	**Gallons in Well**	4.49
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	10:37	**Well Volumes Purged**	0.24	**Sample ID**	YAT-YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	10:13	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	10:36						

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)
10:13:00	00:00	200	12.23	5.52	100.84	1.81	3.00	14.90	215.20
10:18:00	05:00	200	12.63	5.61	99.42	0.94	2.11	15.50	201.25
10:23:00	10:00	200	12.6	5.64	100.17	1.63	2.06	15.70	194.62
10:28:00	15:00	200	12.6	5.63	100.45	1.30	2.06	15.70	192.91
10:33:00	20:00	200	12.6	5.64	100.89	1.05	2.06	15.80	191.03

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 6:27:58 PM +00:00

Project Number	30143622	**Well ID**	YGWA-18I			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	55.0 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.67	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.78	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	55.19	**Gallons in Well**	8.97
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:48	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	12:26	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	12:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:26:00	00:00	200	24.78	6.66	106.99	1.62	8.62	13.80	205.90
12:31:00	05:00	200	24.99	6.10	111.77	1.85	3.93	15.60	200.09
12:36:00	10:00	200	25.01	6.10	112.38	1.16	3.93	15.70	195.32
12:41:00	15:00	200	25.04	6.10	112.58	1.69	3.86	15.80	192.79
12:46:00	20:00	200	25.03	6.11	113.27	1.43	3.84	15.90	189.98

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD Chem	250 mL Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 6:52:38 PM +00:00

Project Number	30052922	**Well ID**	YGWA-1D			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	55.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	51.11	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	77.74	**Gallons in Well**	12.63
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:24	**Well Volumes Purged**	0.19	**Sample ID**	YAT-YGWA-1D	**Sampled by**	Mark Chest
Purge Start	12:36	**Gallons Purged**	2.38	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:21						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:36:00	00:00	200	51.11	6.92	118.93	0.44	9.78	13.90	44.01
12:41:00	05:00	200	51.15	6.97	109.20	0.99	2.38	15.70	-90.07
12:46:00	10:00	200	51.17	7.21	119.64	1.01	1.14	15.80	-115.18
12:51:00	15:00	200	51.21	7.15	115.60	0.52	0.87	15.80	-106.19
12:56:00	20:00	200	51.25	7.12	116.50	2.19	0.79	15.90	-98.20
13:01:00	25:00	200	51.27	7.10	112.07	2.00	0.76	15.90	-91.22
13:06:00	30:00	200	51.29	7.09	105.06	1.80	0.68	15.90	-82.45
13:11:00	35:00	200	51.27	7.07	103.82	1.97	0.74	15.90	-72.13
13:16:00	40:00	200	51.3	7.07	101.39	1.00	0.67	16.00	-65.36
13:21:00	45:00	200	51.32	7.06	106.59	1.42	0.72	16.00	-59.66

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

Comments: No comment

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 6:59:30 PM +00:00

Project Number	30143623	**Well ID**	YGWA-5D			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	55.8 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.83	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	20.13	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	109.00	**Gallons in Well**	17.71
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:25	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YGWA-5D	**Sampled by**	Kim Lapszynski
Purge Start	13:00	**Gallons Purged**	1.25	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:00:00	00:00	275	20.13	7.10	210.83	0.68	1.50	15.90	-145.07
13:05:00	05:00	275	21.04	7.61	225.10	0.13	0.07	16.30	-208.38
13:10:00	10:00	200	20.96	7.57	218.67	0.26	0.05	16.20	-216.49
13:15:00	15:00	200	20.96	7.57	216.78	0.19	0.03	16.30	-220.90
13:20:00	20:00	200	20.96	7.56	216.06	0.20	0.02	16.30	-222.06

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 7:06:29 PM +00:00

Project Number	30143622	**Well ID**	YGWA-39			**Date**	2/20/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	55.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	58.09	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.01	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	47.58	**Gallons in Well**	7.73
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:58	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-39	**Sampled by**	Jessica Ware
Purge Start	13:34	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	13:57						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:34:00	00:00	250	21.01	7.06	359.89	2.39	9.02	16.00	162.15
13:39:00	05:00	250	21.41	6.00	371.93	1.84	0.24	17.90	57.08
13:44:00	10:00	250	21.46	5.99	373.95	0.84	0.12	17.90	48.95
13:49:00	15:00	250	21.42	5.98	374.40	1.09	0.09	17.90	52.10
13:54:00	20:00	250	21.47	5.97	372.43	0.84	0.09	17.90	54.05

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 7:42:15 PM +00:00

Project Number	30143608	**Well ID**	YGWA-3I			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	55.6 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.85	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	52.45	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	6.60	**Gallons in Well**	1.07
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	13:50	**Well Volumes Purged**	0.86	**Sample ID**	YAT-YGWA-3I	**Sampled by**	David Prouty
Purge Start	13:12	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:12:00	00:00	100	52.45	7.58	244.91	5.19	5.51	15.90	32.40
13:17:00	05:00	100	52.73	7.58	250.10	1.83	4.54	15.80	40.01
13:22:00	10:00	100	52.7	7.58	249.45	2.28	3.67	15.70	-9.65
13:27:00	15:00	100	52.69	7.57	244.67	2.89	2.68	15.70	-44.38
13:32:00	20:00	100	52.67	7.57	238.81	2.00	1.94	15.60	-61.43
13:37:00	25:00	100	52.66	7.58	231.24	0.81	1.37	15.50	-75.91
13:42:00	30:00	100	52.66	7.59	224.58	1.48	1.09	15.50	-84.60
13:47:00	35:00	100	52.66	7.59	220.31	1.65	1.01	15.40	-87.56

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
SulfateChloride	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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 8:19:41 PM +00:00

Project Number	30143623	**Well ID**	YGWA-20S			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	57.2 degrees F and Mostly Cloudy. The wind is blowing S/SE at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	19.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.28	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	18.24	**Gallons in Well**	2.96
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:40	**Well Volumes Purged**	0.29	**Sample ID**	YGWA-20S	**Sampled by**	Kim Lapszynski
Purge Start	14:18	**Gallons Purged**	0.86	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:38						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:18:00	00:00	200	11.28	6.70	58.05	3.10	8.92	15.90	169.10
14:23:00	05:00	150	11.99	5.99	58.46	4.32	7.77	16.20	158.27
14:28:00	10:00	150	11.92	6.01	58.51	2.33	7.72	16.30	158.38
14:33:00	15:00	150	11.91	6.00	58.44	1.68	7.68	16.30	157.03
14:38:00	20:00	150	11.91	5.99	58.50	1.78	7.71	16.20	157.36

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 10:01:22 PM +00:00

Project Number	30143608	**Well ID**	YGWA-30I			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	60.3 degrees F and Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	45.2	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	14.28	**Gallons in Well**	2.32
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	16:25	**Well Volumes Purged**	0.23	**Sample ID**	YAT-YGWA-30I	**Sampled by**	David Prouty
Purge Start	16:00	**Gallons Purged**	0.53	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:20						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:00:00	00:00	100	45.2	5.76	41.45	2.06	7.36	17.20	211.18
16:05:00	05:00	100	45.2	5.84	43.89	0.49	7.01	18.30	204.26
16:10:00	10:00	100	45.2	5.83	41.09	1.46	7.17	16.70	191.72
16:15:00	15:00	100	45.2	5.80	41.18	0.41	7.21	17.00	193.51
16:20:00	20:00	100	45.2	5.81	40.92	1.39	7.20	16.70	193.81

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
Metals	1L Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
SulfateChloride	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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/20/2024 10:14:55 PM +00:00

Project Number	30143622	**Well ID**	YGWA-40			**Date**	2/20/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	37.73	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	25	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	23.23	**Gallons in Well**	3.77
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:10	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-40	**Sampled by**	Jessica Ware
Purge Start	14:41	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	15:09						

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)
14:41:00	00:00	350	25	6.24	115.47	0.89	8.49	16.60	128.06
14:46:00	05:00	300	26	5.27	109.75	1.07	0.14	17.10	149.97
14:51:00	10:00	300	26.33	5.25	109.41	0.02	0.09	17.10	160.94
14:56:00	15:00	200	26.01	5.29	109.66	1.21	0.10	17.00	164.76
15:01:00	20:00	200	25.95	5.31	109.56	0.63	0.08	17.00	169.48
15:06:00	25:00	200	25.94	5.32	109.19	0.51	0.07	16.90	178.49

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 10:27:58 PM +00:00

Project Number	30143623	**Well ID**	YGWA-21I			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	59.4 degrees F and Partly Cloudy. The wind is blowing N at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	31.62	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	48.28	**Gallons in Well**	7.85
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:38	**Well Volumes Purged**	0.21	**Sample ID**	YGWA-21I	**Sampled by**	Kim Lapszynski
Purge Start	15:24	**Gallons Purged**	1.68	**Replicate/ Code No.**	YAT-UGRD-FB-2	**Color**	Clear
Purge End	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)
15:24:00	00:00	150	31.62	7.47	143.12	1.22	9.51	19.20	149.92
15:29:00	05:00	150	32.89	6.52	153.18	1.29	1.94	17.20	-3.92
15:34:00	10:00	100	33.78	6.78	170.51	3.31	0.74	17.30	-55.12
15:39:00	15:00	100	34.42	6.78	171.38	2.80	0.62	17.40	-61.37
15:44:00	20:00	100	34.93	6.81	168.40	1.85	0.56	17.50	-60.99
15:49:00	25:00	100	35.3	6.79	163.66	1.27	0.64	17.40	-57.09
15:54:00	30:00	100	35.71	6.76	158.54	1.05	0.63	17.50	-49.74
15:59:00	35:00	100	36.05	6.75	154.65	1.09	0.69	17.40	-46.59
16:04:00	40:00	75	36.35	6.73	151.99	0.93	0.83	17.70	-42.68
16:09:00	45:00	75	36.75	6.72	151.34	1.15	0.67	17.30	-45.72
16:14:00	50:00	75	37.02	6.73	152.58	0.84	0.79	17.60	-44.31
16:19:00	55:00	50	37.16	6.75	151.55	0.91	1.12	17.70	-39.43
16:24:00	00:00	50	37.34	6.74	151.20	0.77	1.16	17.70	-38.92
16:29:00	05:00	50	37.48	6.77	153.11	1.08	1.23	17.70	-40.66
16:34:00	10:00	50	37.57	6.78	154.48	0.72	1.15	17.70	-42.41

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: Decreased flow rate to 50 mL/min due to drawdown greater than 0.3 ft between 5 minute interval readings.

Well Casing Volume Conversion

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 10:34:41 PM +00:00

Project Number	30143623	**Well ID**	YGWA-5I			**Date**	2/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	54.0 degrees F and Mostly Cloudy. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.64	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.02	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	37.92	**Gallons in Well**	6.16
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:18	**Well Volumes Purged**	0.13	**Sample ID**	YAT-YGWA-5I	**Sampled by**	Kim Lapszynski
Purge Start	11:56	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:16						

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)
11:56:00	00:00	150	21.02	7.07	101.15	1.70	9.71	13.30	126.40
12:01:00	05:00	150	21.19	5.82	86.15	0.64	6.15	15.60	101.56
12:06:00	10:00	150	21.2	5.79	86.35	0.36	6.00	15.60	106.38
12:11:00	15:00	150	21.2	5.78	86.21	0.29	5.99	15.60	113.77
12:16:00	20:00	150	21.2	5.78	86.13	0.11	6.00	15.60	115.68

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	1	None
App III/IV Metals, Ca, Na, K, Mg	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
Total Dissolved Solids	500 mL Plastic	1	None

Comments: No comments.

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/20/2024 10:47:52 PM +00:00

Project Number	30052922	**Well ID**	YGWA-2I			**Date**	2/20/2024
Project Location	AP-2		**Weather(°F)**	57.6 degrees F and Clear. The wind is blowing undefined at 0.0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	46.91	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	16.84	**Gallons in Well**	2.74
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:02	**Well Volumes Purged**	0.46	**Sample ID**	YAT-YGWA-2I	**Sampled by**	Mark Chest
Purge Start	15:03	**Gallons Purged**	1.25	**Replicate/ Code No.**	YAT-UGRD-FB-1	**Color**	Clear
Purge End	15:58						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:03:00	00:00	100	46.91	7.40	208.85	3.38	9.06	16.50	77.13
15:08:00	05:00	100	48.28	7.13	220.70	8.24	2.92	17.30	-66.98
15:13:00	10:00	100	49.1	7.27	223.02	0.50	1.86	16.60	-79.57
15:18:00	15:00	100	49.35	7.29	224.22	0.02	0.81	16.60	-80.74
15:23:00	20:00	100	50.85	7.25	222.82	0.45	0.54	16.80	-72.26
15:28:00	25:00	75	50.89	7.24	219.86	0.40	0.77	16.60	-60.99
15:33:00	30:00	75	51.03	7.22	216.78	0.02	1.17	16.40	-47.79
15:38:00	35:00	75	51.11	7.21	214.70	0.03	1.48	16.40	-39.95
15:43:00	40:00	75	51.23	7.21	213.11	0.03	1.71	16.40	-36.42
15:48:00	45:00	75	51.29	7.22	212.04	0.02	1.84	16.50	-33.55
15:53:00	50:00	75	51.36	7.22	211.56	0.02	1.94	16.50	-33.73
15:58:00	55:00	75	51.43	7.23	211.08	0.02	2.02	16.60	-33.13

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

Comments: No comment

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: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 2/23/2024 3:50:13 PM +00:00

Project Number	30143608	**Well ID**	YGWA-18S			**Date**	2/23/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	54.7 degrees F and Partly Cloudy. The wind is blowing NW at 8.1 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.97	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	22	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	17.97	**Gallons in Well**	2.92
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	09:25	**Well Volumes Purged**	0.27	**Sample ID**	YGWA-18S	**Sampled by**	David Prouty
Purge Start	08:49	**Gallons Purged**	0.79	**Replicate/ Code No.**	YAT-UGRD-FD-2	**Color**	Clear
Purge End	09:19						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
8:49:00	00:00	100	22.45	5.68	70.60	1.00	8.45	13.10	220.55
8:54:00	05:00	100	22.48	5.15	55.36	0.55	5.29	15.00	235.69
8:59:00	10:00	100	22.48	5.23	53.89	2.45	4.50	15.20	237.30
9:04:00	15:00	100	22.48	5.26	53.14	0.27	4.53	15.40	239.36
9:09:00	20:00	100	22.48	5.28	52.97	0.25	4.27	15.50	245.11
9:14:00	25:00	100	22.48	5.28	52.94	0.92	4.09	15.50	253.17
9:19:00	30:00	100	22.48	5.30	52.71	0.21	4.08	15.30	256.49

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	2	None
FlChlorideSulfate	250 mL Plastic	2	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	4	HNO3
TDS	500 mL Plastic	2	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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 2/23/2024 4:58:48 PM +00:00

Project Number	30143608	**Well ID**	YGWA-14S			**Date**	2/23/2024
Project Location	AP-2		**Weather(°F)**	58.8 degrees F and Mostly Cloudy. The wind is blowing NW at 5.8 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	24.66	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	18.2	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	16.76	**Gallons in Well**	2.72
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	11:00	**Well Volumes Purged**	0.19	**Sample ID**	YAT-YGWA-14S	**Sampled by**	David Prouty
Purge Start	10:34	**Gallons Purged**	0.53	**Replicate/ Code No.**	YAT-UGRD-FD-1	**Color**	Clear
Purge End	10:54						

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)
10:34:00	00:00	100	18.4	5.40	66.50	0.14	5.68	17.30	243.48
10:39:00	05:00	100	18.4	5.39	66.58	1.14	5.55	17.10	257.72
10:44:00	10:00	100	18.4	5.39	66.52	0.36	5.51	17.10	264.49
10:49:00	15:00	100	18.4	5.38	66.54	0.17	5.48	17.10	269.37
10:54:00	20:00	100	18.4	5.39	66.73	0.19	5.39	17.20	270.73

Constituent Sampled	Container	Number	Preservative
Alkalinity	250 mL Plastic	2	None
FlChlorideSulfate	250 mL Plastic	2	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	4	HNO3
TDS	500 mL Plastic	2	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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	09:16:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	Gypsum Landfill
Permit Number:	
Well ID:	GWA-2
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	09:57:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:19:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:22:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:27:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	11:51:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	12:12:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	12:16:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:29:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:43:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	13:45:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:47:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:52:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Jake Swanson
Date:	2/19/2024
Time:	13:56:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:04:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:10:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:19:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:20:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Jessica Ware
Date:	2/19/2024
Time:	14:26:00

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

August 2024

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 10:35		**Time Finish 11:05**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	31.96	± 0.1	GWMP
pH (SU)	7.00	6.99	31.77	± 0.1	GWMP
pH (SU)	10.00	9.95	32.31	± 0.1	GWMP
D.O. (%)	N/A	100.00	34.35	± 10%	NA
ORP (mV)	229.0	229.0	33.01	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.99	± 10% of standard	EPA 2023
	20	20.0		
	100	101		
	800	807		

Calibration Check					
Time Start 15:00		**Time Finish 15:45**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.00	± 0.1	GWMP
pH (SU)	7.00	7.00	25.46	± 0.1	GWMP
pH (SU)	10.00	10.00	26.31	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	19.9		
	100	103		
	800	789		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:25		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.43	± 0.1	GWMP
pH (SU)	7.00	7.02	21.98	± 0.1	GWMP
pH (SU)	10.00	10.00	21.38	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.12	± 10%	NA
ORP (mV)	229.0	229.0	20.33	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.1		
	100	96.2		
	800	797		

Calibration Check					
Time Start 15:30		**Time Finish 15:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.15	± 0.1	GWMP
pH (SU)	7.00	7.00	25.48	± 0.1	GWMP
pH (SU)	10.00	10.00	27.11	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.6		
	100	94.9		
	800	786		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Kim Lapszynski

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:00		**Time Finish 7:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.54	± 0.1	GWMP
pH (SU)	7.00	7.00	24.70	± 0.1	GWMP
pH (SU)	10.00	10.00	24.17	± 0.1	GWMP
D.O. (%)	N/A	100.00	29.40	± 10%	NA
ORP (mV)	229.0	229.0	27.99	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10	± 10% of standard	EPA 2023
	20	20.1		
	100	99.5		
	800	794		

Calibration Check					
Time Start 12:28		**Time Finish 13:00**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.54	± 0.1	GWMP
pH (SU)	7.00	7.00	24.70	± 0.1	GWMP
pH (SU)	10.00	10.00	24.17	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.8	± 10% of standard	EPA 2023
	20	20.2		
	100	101		
	800	793		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: Kim Lapszynski

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	1034834
Turbidity Meter	HACH 2100Q	24030D000311

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:10 **Time Finish 7:45**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.08	± 0.1	GWMP
pH (SU)	7.00	7.00	21.92	± 0.1	GWMP
pH (SU)	10.00	10.00	21.51	± 0.1	GWMP
D.O. (%)	N/A	100.00	17.97	± 10%	NA
ORP (mV)	229.0	229.0	20.31	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.1		
	100	99.1		
	800	795		

Calibration Check

Time Start NA **Time Finish NA**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:10 **Time Finish 7:46**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.18	± 0.1	GWMP
pH (SU)	7.00	7.02	21.90	± 0.1	GWMP
pH (SU)	10.00	10.05	21.98	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.21	± 10%	NA
ORP (mV)	229.0	232.9	22.13	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.0		
	100	99.7		
	800	800		

Calibration Check

Time Start 12:30 **Time Finish 12:55**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.84	± 0.1	GWMP
pH (SU)	7.00	7.00	24.66	± 0.1	GWMP
pH (SU)	10.00	10.00	24.64	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.0		
	100	100		
	800	802		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:00		**Time Finish 7:25**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.77	± 0.1	GWMP
pH (SU)	7.00	7.02	20.91	± 0.1	GWMP
pH (SU)	10.00	10.03	20.82	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.87	± 10%	NA
ORP (mV)	229.0	234.5	20.88	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.84	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	800		

Calibration Check					
Time Start 13:00		**Time Finish 13:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	29.15	± 0.1	GWMP
pH (SU)	7.00	6.99	28.43	± 0.1	GWMP
pH (SU)	10.00	9.95	29.40	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	19.7		
	100	101		
	800	796		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Perry Studebaker

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:40 **Time Finish 8:05**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	23.24	± 0.1	GWMP
pH (SU)	7.00	7.00	23.21	± 0.1	GWMP
pH (SU)	10.00	10.00	23.15	± 0.1	GWMP
D.O. (%)	N/A	100.00	24.51	± 10%	NA
ORP (mV)	229.0	231.2	23.39	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.1	± 10% of standard	EPA 2023
	20	20.1		
	100	99.1		
	800	806		

Calibration Check

Time Start NA **Time Finish NA**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: Perry Studebaker

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	963008
Turbidity Meter	HACH 2100Q	211100000427

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:10		**Time Finish 7:36**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	20.04	± 0.1	GWMP
pH (SU)	7.00	7.02	20.07	± 0.1	GWMP
pH (SU)	10.00	10.05	19.85	± 0.1	GWMP
D.O. (%)	N/A	100.00	20.60	± 10%	NA
ORP (mV)	229.0	229.0	20.04	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	101		
	800	797		

Calibration Check					
Time Start NA		**Time Finish NA**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:20 **Time Finish 7:45**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.41	± 0.1	GWMP
pH (SU)	7.00	7.02	21.68	± 0.1	GWMP
pH (SU)	10.00	10.05	21.92	± 0.1	GWMP
D.O. (%)	N/A	100.00	21.55	± 10%	NA
ORP (mV)	229.0	233.9	21.34	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.98	± 10% of standard	EPA 2023
	20	19.9		
	100	101		
	800	800		

Calibration Check

Time Start 13:40 **Time Finish 14:09**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	25.87	± 0.1	GWMP
pH (SU)	7.00	7.00	26.16	± 0.1	GWMP
pH (SU)	10.00	10.00	25.92	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	19.9		
	100	100		
	800	801		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:10		**Time Finish 7:55**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.12	± 0.1	GWMP
pH (SU)	7.00	7.00	22.28	± 0.1	GWMP
pH (SU)	10.00	10.00	21.88	± 0.1	GWMP
D.O. (%)	N/A	100.00	21.50	± 10%	NA
ORP (mV)	229.0	233.5	21.63	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.49	± 10% of standard	EPA 2023
	20	19.3		
	100	101		
	800	800		

Calibration Check					
Time Start 13:30		**Time Finish 14:05**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	29.10	± 0.1	GWMP
pH (SU)	7.00	7.00	28.20	± 0.1	GWMP
pH (SU)	10.00	10.00	29.68	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.79	± 10% of standard	EPA 2023
	20	19.6		
	100	101		
	800	800		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: David Prouty

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:10		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	24.09	± 0.1	GWMP
pH (SU)	7.00	7.00	24.21	± 0.1	GWMP
pH (SU)	10.00	10.00	24.05	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.08	± 10%	NA
ORP (mV)	229.0	231.4	23.22	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.93	± 10% of standard	EPA 2023
	20	20.2		
	100	100		
	800	807		

Calibration Check					
Time Start 13:40		**Time Finish 14:15**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.35	± 0.1	GWMP
pH (SU)	7.00	7.00	27.59	± 0.1	GWMP
pH (SU)	10.00	10.00	27.14	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.2	± 10% of standard	EPA 2023
	20	20.1		
	100	99.8		
	800	802		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: David Prouty

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	513478
Turbidity Meter	HACH 2100Q	24030D000276

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:15		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.08	± 0.1	GWMP
pH (SU)	7.00	7.00	22.17	± 0.1	GWMP
pH (SU)	10.00	10.00	21.38	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.21	± 10%	NA
ORP (mV)	229.0	229.0	21.39	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.79	± 10% of standard	EPA 2023
	20	20.1		
	100	101		
	800	798		

Calibration Check					
Time Start NA		**Time Finish NA**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/20/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:15 **Time Finish 7:50**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	22.24	± 0.1	GWMP
pH (SU)	7.00	7.02	21.97	± 0.1	GWMP
pH (SU)	10.00	10.05	22.10	± 0.1	GWMP
D.O. (%)	N/A	100.00	21.75	± 10%	NA
ORP (mV)	229.0	229.0	22.03	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.00	± 10% of standard	EPA 2023
	20	19.7		
	100	100		
	800	780		

Calibration Check

Time Start 12:55 **Time Finish 13:20**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.01	31.89	± 0.1	GWMP
pH (SU)	7.00	7.00	29.70	± 0.1	GWMP
pH (SU)	10.00	10.00	30.50	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.40	± 10% of standard	EPA 2023
	20	19.9		
	100	100		
	800	784		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/21/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:10 **Time Finish 7:50**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.82	± 0.1	GWMP
pH (SU)	7.00	7.00	21.59	± 0.1	GWMP
pH (SU)	10.00	10.00	21.63	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.50	± 10%	NA
ORP (mV)	229.0	229.0	21.78	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.5	± 10% of standard	EPA 2023
	20	21.0		
	100	104		
	800	800		

Calibration Check

Time Start 14:10 **Time Finish 14:30**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	34.8	± 0.1	GWMP
pH (SU)	7.00	7.00	34.99	± 0.1	GWMP
pH (SU)	10.00	10.00	34.88	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	9.95	± 10% of standard	EPA 2023
	20	19.5		
	100	100		
	800	809		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/22/2024

Calibrated By: Jessica Ware

Field Conditions: Cloudy

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

Calibration Standard Information				
Parameter	**Standard**	**Lot #**	**Date of Expiration**	**Brand**
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration					
Time Start 7:10		**Time Finish 7:50**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.95	± 0.1	GWMP
pH (SU)	7.00	7.00	21.92	± 0.1	GWMP
pH (SU)	10.00	10.00	21.97	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.23	± 10%	NA
ORP (mV)	229.0	229.0	21.92	± 10	EPA 2023

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	9.96	± 10% of standard	EPA 2023
	20	20.1		
	100	98.6		
	800	799		

Calibration Check					
Time Start 12:05		**Time Finish 12:35**			
Parameter	**Standard**	**Calibration Value**	**Calibration Solution Temperature (°C)**	**Acceptance Criteria**	**Reference**
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	26.34	± 0.1	GWMP
pH (SU)	7.00	7.00	27.25	± 0.1	GWMP
pH (SU)	10.00	10.00	26.90	± 0.1	GWMP

	Standard	**Calibration Value**	**Acceptance Criteria**	**Reference**
Turbidity (NTU)	10	10.3	± 10% of standard	EPA 2023
	20	20.1		
	100	100		
	800	801		

Notes:

Field Instrumentation Calibration Form

Site Name: Plant Yates

Date: 8/23/2024

Calibrated By: Jessica Ware

Field Conditions: Clear

Instrument	Manufactuer/ Model	Serial Number
Water Quality Meter	Aquatroll 600	875341
Turbidity Meter	Hach 2100Q	12010C015584

Calibration Standard Information

Parameter	Standard	Lot #	Date of Expiration	Brand
Specific Conductance (µS/cm)	1,413	4GF0724	Jun-25	Insitu
pH (SU)	4.00	4GF0044	Jun-26	Insitu
pH (SU)	7.00	4GF0046	Jun-26	Insitu
pH (SU)	10.00	4GF0114	Jun-26	Insitu
D.O. (%)	N/A	--	--	--
ORP (mV)	229.0	4GG0346	Apr-25	Insitu

Calibration

Time Start 7:06 **Time Finish 7:25**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	1,413.0	25.00	± 10% of standard	EPA 2023
pH (SU)	4.00	4.00	21.92	± 0.1	GWMP
pH (SU)	7.00	7.00	22.07	± 0.1	GWMP
pH (SU)	10.00	10.00	22.23	± 0.1	GWMP
D.O. (%)	N/A	100.00	22.36	± 10%	NA
ORP (mV)	229.0	233.6	21.56	± 10	EPA 2023

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	10.0	± 10% of standard	EPA 2023
	20	20.4		
	100	102		
	800	801		

Calibration Check

Time Start NA **Time Finish NA**

Parameter	Standard	Calibration Value	Calibration Solution Temperature (°C)	Acceptance Criteria	Reference
Specific Conductance (µS/cm)	1,413	-	-	± 10% of standard	EPA 2023
pH (SU)	4.00	-	-	± 0.1	GWMP
pH (SU)	7.00	-	-	± 0.1	GWMP
pH (SU)	10.00	-	-	± 0.1	GWMP

	Standard	Calibration Value	Acceptance Criteria	Reference
Turbidity (NTU)	10	-	± 10% of standard	EPA 2023
	20	-		
	100	-		
	800	-		

Notes:

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AP-2
Date:	8/19/2024
Sampler:	Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-26S	8/19/2024	10:22:00	26.56	40.18	--
YGWC-26I	8/19/2024	10:22:00	27.33	69.81	--
YGWC-27S	8/19/2024	10:32:00	30.12	40.52	--
YGWC-27I	8/19/2024	10:35:00	30.28	79.99	--
YGWC-28S	8/19/2024	10:39:00	27.88	44.95	--
YGWC-28I	8/19/2024	10:40:00	28.70	69.93	--
YGWC-29IB	8/19/2024	10:44:00	27.37	40.88	--
PZ-25S	8/19/2024	11:00:00	38.55	56.80	--
PZ-25I	8/19/2024	11:03:00	40.78	84.58	--
PZ-14I	8/19/2024	11:54:00	18.05	50.86	--
PZ-31S	8/19/2024	12:00:00	18.43	34.72	--
PZ-1S	8/19/2024	12:39:00	33.24	36.34	--
PZ-13S	8/19/2024	12:47:00	36.79	43.79	--
PZ-13I	8/19/2024	12:49:00	40.04	59.22	--
PZ-3S	8/19/2024	14:46:00	37.17	42.39	--

Groundwater Sampling Form

Updated : 9/9/2024 6:30:42 PM +00:00

Project Number	30113037	**Well ID**	YGWC-29IB			**Date**	8/22/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	30.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.88	**Total Depth (ft-bmp)**	40.88	**Water Column(ft)**	13.00	**Gallons in Well**	2.11
MP Elevation	712.88	**Pump Intake (ft-bmp)**	34.88	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:16	**Well Volumes Purged**	0.38	**Sample ID**	YGWC-29IB	**Sampled by**	Kim Lapszynski
Purge Start	11:55	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:15						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:55:00	00:00	150	27.88	6.17	259.54	1.72	3.55	24.50	149.47
12:00:00	05:00	150	28.14	5.91	276.98	0.85	0.35	21.50	154.17
12:05:00	10:00	150	28.13	5.86	275.65	0.65	0.20	21.00	155.43
12:10:00	15:00	150	28.13	5.85	276.54	0.98	0.14	22.00	153.26
12:15:00	20:00	150	28.13	5.87	277.35	0.71	0.12	21.40	152.04

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/9/2024 6:53:49 PM +00:00

Project Number	30113037	**Well ID**	YGWC-28S			**Date**	8/22/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	34.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	28.01	**Total Depth (ft-bmp)**	44.95	**Water Column(ft)**	16.94	**Gallons in Well**	2.75
MP Elevation	717.95	**Pump Intake (ft-bmp)**	40	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:50	**Well Volumes Purged**	1.54	**Sample ID**	YAT-YGWC-28S	**Sampled by**	Kim Lapszynski
Purge Start	15:09	**Gallons Purged**	4.23	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:49						

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)
15:09:00	00:00	150	28.01	6.26	385.73	26.10	6.61	25.10	4.32
15:14:00	05:00	100	28.15	5.93	441.24	146.00	2.24	23.50	-27.71
15:19:00	10:00	100	28.17	5.99	457.00	128.00	6.56	23.60	-52.82
15:24:00	15:00	100	28.17	5.94	458.97	118.00	0.76	24.00	-41.60
15:29:00	20:00	100	28.17	5.96	457.71	104.00	0.86	24.00	-40.66
15:34:00	25:00	100	28.17	5.98	456.05	91.70	0.81	23.30	-40.70
15:39:00	30:00	100	28.17	5.99	457.83	84.90	0.67	23.60	-42.80
15:44:00	35:00	100	28.17	6.03	457.31	69.40	0.59	23.60	-46.58
15:49:00	40:00	100	28.17	6.07	459.96	55.20	0.52	23.40	-49.57
15:54:00	45:00	100	28.17	6.13	461.28	42.80	0.47	23.70	-54.38
15:59:00	50:00	100	28.17	6.15	461.50	33.10	0.43	23.40	-56.43
16:04:00	55:00	100	28.17	6.18	461.82	28.80	0.41	23.50	-58.99
16:09:00	00:00	100	28.17	6.21	461.24	25.30	0.36	23.50	-61.71
16:14:00	05:00	100	28.17	6.21	461.39	23.30	0.34	23.10	-61.61
16:19:00	10:00	100	28.17	6.22	462.06	21.10	0.33	23.40	-63.14
16:24:00	15:00	100	28.17	6.24	462.43	17.70	0.31	23.70	-65.31
16:29:00	20:00	100	28.17	6.26	462.88	15.70	0.33	23.80	-66.31
16:34:00	25:00	100	28.17	6.26	461.08	14.00	0.33	22.90	-65.07
16:39:00	30:00	100	28.17	6.24	461.95	12.60	0.32	23.30	-64.65
16:44:00	35:00	100	28.17	6.25	462.44	11.10	0.32	23.70	-66.19
16:49:00	40:00	100	28.17	6.25	462.39	10.10	0.32	23.50	-65.62
16:54:00	45:00	100	28.17	6.25	461.57	9.40	0.32	23.40	-65.63
16:59:00	50:00	100	28.17	6.25	461.81	8.83	0.30	23.40	-66.02
17:04:00	55:00	100	28.17	6.24	462.21	8.16	0.30	23.60	-66.09
17:09:00	00:00	100	28.17	6.24	461.70	7.57	0.29	23.50	-66.25
17:14:00	05:00	100	28.17	6.24	461.60	7.19	0.27	23.60	-66.44

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

17:19:00	10:00	100	28.17	6.23	461.52	6.28	0.26	23.50	-66.89
17:24:00	15:00	100	28.17	6.23	461.98	5.99	0.25	23.50	-66.99
17:29:00	20:00	100	28.17	6.23	462.28	5.47	0.25	23.50	-67.11
17:34:00	25:00	100	28.17	6.23	461.98	5.08	0.25	23.40	-66.92
17:39:00	30:00	100	28.17	6.23	461.06	4.82	0.24	22.90	-66.40
17:44:00	35:00	100	28.17	6.22	461.33	4.55	0.23	22.90	-66.32
17:49:00	40:00	100	28.17	6.22	461.24	4.29	0.23	22.80	-66.43

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 9/9/2024 6:55:44 PM +00:00

Project Number	30113037	**Well ID**	YGWC-26I			**Date**	8/21/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	27.39	**Total Depth (ft-bmp)**	69.81	**Water Column(ft)**	42.42	**Gallons in Well**	6.89
MP Elevation	715.91	**Pump Intake (ft-bmp)**	61	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:23	**Well Volumes Purged**	0.14	**Sample ID**	YAT-YGWC-26I	**Sampled by**	Kim Lapszynski
Purge Start	15:56	**Gallons Purged**	0.99	**Replicate/ Code No.**	YAT-AP2-FB-1	**Color**	Clear
Purge End	16:21						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:56:00	00:00	150	27.39	6.31	306.36	1.27	8.12	30.70	160.80
16:01:00	05:00	150	27.59	5.70	305.20	0.57	2.57	21.60	-1.48
16:06:00	10:00	150	27.61	5.50	307.27	0.49	0.68	21.40	34.73
16:11:00	15:00	150	27.63	5.49	307.08	0.30	0.57	21.60	59.61
16:16:00	20:00	150	27.64	5.50	307.01	0.42	0.48	21.10	72.23
16:21:00	25:00	150	27.67	5.48	307.94	0.34	0.45	20.90	81.43

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: YAT-AP2-FB-1 Sample Time @ 1630

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: _____ Key Number To Well: _____

Groundwater Sampling Form

Updated : 9/9/2024 6:56:13 PM +00:00

Project Number	30113037	**Well ID**	YGWC-28I			**Date**	8/22/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	59.63	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	29.01	**Total Depth (ft-bmp)**	69.93	**Water Column(ft)**	40.92	**Gallons in Well**	6.65
MP Elevation	717.93	**Pump Intake (ft-bmp)**	64	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:45	**Well Volumes Purged**	0.11	**Sample ID**	YAT-YGWC-28I	**Sampled by**	Kim Lapszynski
Purge Start	13:19	**Gallons Purged**	0.73	**Replicate/ Code No.**	YAT-AP2-FD-1	**Color**	Clear
Purge End	13:44						

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	29.01	7.34	331.48	2.47	8.92	26.30	177.64
13:24:00	05:00	150	29.98	6.23	329.22	0.19	2.26	21.40	168.47
13:29:00	10:00	100	30.01	6.13	326.59	0.21	1.15	21.90	160.11
13:34:00	15:00	100	30.01	6.17	319.50	0.22	0.95	22.90	144.87
13:39:00	20:00	100	30.02	6.18	317.79	0.11	0.87	22.60	138.22
13:44:00	25:00	100	30.04	6.19	320.22	0.13	0.95	22.70	136.13

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 9/9/2024 6:57:31 PM +00:00

Project Number	30113037	**Well ID**	YGWC-26S			**Date**	8/21/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	26.57	**Total Depth (ft-bmp)**	40.18	**Water Column(ft)**	13.61	**Gallons in Well**	2.21
MP Elevation	716.28	**Pump Intake (ft-bmp)**	37	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	15:30	**Well Volumes Purged**	0.30	**Sample ID**	YAT-YGWC-26S	**Sampled by**	Kim Lapszynski
Purge Start	14:58	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:58:00	00:00	150	26.57	6.17	313.77	2.86	8.44	28.00	189.07
15:03:00	05:00	150	27.53	5.21	282.15	0.45	1.82	21.20	196.49
15:08:00	10:00	150	27.71	5.18	281.31	0.27	1.22	21.40	190.19
15:13:00	15:00	150	27.86	5.23	280.67	0.21	0.72	21.20	174.89
15:18:00	20:00	150	27.95	5.24	280.15	0.31	0.46	21.00	170.71
15:23:00	25:00	150	28.01	5.26	280.34	0.22	0.34	21.40	168.02
15:28:00	30:00	150	28.05	5.28	279.87	0.26	0.29	21.20	167.90

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 9/9/2024 7:29:25 PM +00:00

Project Number	30113037	**Well ID**	YGWC-27S			**Date**	8/22/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	30.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	30.65	**Total Depth (ft-bmp)**	40.52	**Water Column(ft)**	9.87	**Gallons in Well**	1.60
MP Elevation	716.52	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	11:08	**Well Volumes Purged**	0.87	**Sample ID**	YAT-YGWC-27S	**Sampled by**	Kim Lapszynski
Purge Start	10:31	**Gallons Purged**	1.39	**Replicate/ Code No.**		**Color**	Clear
Purge End	11:06						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
10:31:00	00:00	150	30.65	6.70	316.50	2.14	7.83	26.80	145.51
10:36:00	05:00	150	30.75	6.27	294.65	1.13	3.43	21.20	100.45
10:41:00	10:00	150	30.76	6.25	295.36	0.54	2.10	20.70	108.96
10:46:00	15:00	150	30.77	6.25	297.14	0.28	1.29	20.60	112.27
10:51:00	20:00	150	30.77	6.26	298.58	0.33	0.94	20.70	114.13
10:56:00	25:00	150	30.78	6.27	299.37	0.36	0.76	20.70	115.52
11:01:00	30:00	150	30.78	6.27	300.63	0.42	0.66	20.90	116.40
11:06:00	35:00	150	30.78	6.28	301.24	0.34	0.57	20.80	117.39

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 9/9/2024 7:38:36 PM +00:00

Project Number	30113037	**Well ID**	YGWC-27I			**Date**	8/21/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.69	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	30.4	**Total Depth (ft-bmp)**	79.99	**Water Column(ft)**	49.59	**Gallons in Well**	8.06
MP Elevation	716.19	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:30	**Well Volumes Purged**	0.10	**Sample ID**	YAT-YGWC-27I	**Sampled by**	Kim Lapszynski
Purge Start	17:09	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:09:00	00:00	150	30.4	7.28	310.63	1.04	9.17	28.70	139.35
17:14:00	05:00	150	30.91	6.07	319.20	3.84	1.64	21.90	9.77
17:19:00	10:00	150	30.99	5.94	321.74	2.07	0.42	21.20	11.88
17:24:00	15:00	150	31.03	5.90	317.37	1.61	0.33	21.20	16.15
17:29:00	20:00	150	31.04	5.90	312.71	0.77	0.30	21.10	19.59

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
TDS	500 mL Plastic	1	None

Comments: YAT-AP2-EB1 Sample Time @ 1750

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: _____ Key Number To Well: _____

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	10:22:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-26I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	10:22:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	10:32:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-27I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	10:35:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	10:39:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-28I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	10:40:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWC-29IB
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	10:44:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	11:00:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-25I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	11:03:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-14I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	11:54:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-31S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:00:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-1S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:39:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:47:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-13I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:49:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	PZ-3S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	14:46:00

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

Upgradient Wells

ARCADIS Design & Consultancy for natural and built assets

Groundwater Gauging Log

Client:	Georgia Power
Project Location:	AMA AP-3, A, B and B'
Date:	8/19/2024
Sampler:	Jessica Ware Jake Swanson
Equipment:	water probe

Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWA-47	8/19/2024	09:13:00	34.93	59.19	--
YGWA-17S	8/19/2024	10:13:00	13.55	39.85	--
YGWA-18I	8/19/2024	10:21:00	24.75	79.97	--
YGWA-18S	8/19/2024	10:23:00	21.67	39.97	--
YGWA-39	8/19/2024	11:09:00	19.63	68.59	--
YGWA-40	8/19/2024	11:51:00	24.92	48.23	--
YGWA-14S	8/19/2024	11:54:00	17.10	34.96	--
YGWA-30I	8/19/2024	12:09:00	43.27	59.48	--
YGWA-2I	8/19/2024	12:09:00	45.81	63.75	--
YGWA-1I	8/19/2024	12:41:00	38.46	53.60	--
YGWA-1D	8/19/2024	12:42:00	50.88	128.85	--
YGWA-20S	8/19/2024	14:11:00	11.80	29.52	--
YGWA-21I	8/19/2024	14:17:00	31.88	79.90	--
YGWA-5I	8/19/2024	14:30:00	20.48	58.94	--
YGWA-5D	8/19/2024	14:31:00	20.47	129.13	--
YGWA-4I	8/19/2024	14:38:00	24.73	48.81	--
YGWA-3I	8/19/2024	14:55:00	53.09	59.05	--
YGWA-3D	8/19/2024	14:57:00	33.15	134.18	--

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 2:41:56 PM +00:00

Project Number	30143623	**Well ID**	YGWA-5I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.64	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	20.6	**Total Depth (ft-bmp)**	58.94	**Water Column(ft)**	38.34	**Gallons in Well**	6.23
MP Elevation	784.54	**Pump Intake (ft-bmp)**	53	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:59	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-5I	**Sampled by**	Perry Studebaker
Purge Start	09:36	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	09:56						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:36:00	00:00	150	20.6	5.74	82.90	1.19	5.58	18.80	140.70
9:41:00	05:00	150	20.68	5.58	82.45	0.66	5.48	18.20	150.39
9:46:00	10:00	150	20.73	5.57	82.20	0.43	5.41	18.10	154.24
9:51:00	15:00	150	20.74	5.57	82.14	0.45	5.28	18.10	155.81
9:56:00	20:00	150	20.77	5.59	81.86	0.61	5.30	18.10	156.35

Constituent Sampled	Container	Number	Preservative
Anions	250 mL Plastic	1	None
Dissolved Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 3:34:14 PM +00:00

Project Number	30143608	**Well ID**	YGWA-1I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	43.3	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	38.5	**Total Depth (ft-bmp)**	53.6	**Water Column(ft)**	15.10	**Gallons in Well**	2.45
MP Elevation	836.6	**Pump Intake (ft-bmp)**	49	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	10:25	**Well Volumes Purged**	0.33	**Sample ID**	YAT-YGWA-1I	**Sampled by**	David Prouty
Purge Start	09:44	**Gallons Purged**	0.82	**Replicate/ Code No.**	YAT-UGRD-FD-1	**Color**	Clear
Purge End	11:18						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:44:00	00:00	100	38.5	6.40	89.50	0.56	3.75	19.30	135.60
9:45:00	01:00	100	38.5	6.26	80.97	0.56	2.94	18.80	66.20
9:50:00	06:00	100	41.83	5.77	59.48	1.54	4.43	17.00	141.73
9:55:00	11:00	100	41.8	5.78	49.28	0.54	5.00	17.40	158.43
10:00:00	16:00	100	41.8	5.85	47.05	0.50	5.32	18.20	160.47
10:05:00	21:00	100	41.8	5.91	43.82	0.40	5.59	18.00	170.04
10:10:00	26:00	100	41.79	5.93	43.10	0.60	5.70	18.00	178.90
10:15:00	31:00	100	41.79	5.92	43.68	0.59	5.60	18.00	184.10

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	2	None
Metals	250 mL Plastic	2	HNO3
RAD Chem	1L Plastic	4	HNO3
TDS	500 mL Plastic	2	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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 4:21:28 PM +00:00

Project Number	30143623	**Well ID**	YGWA-4I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	38.51	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.78	**Total Depth (ft-bmp)**	48.81	**Water Column(ft)**	24.03	**Gallons in Well**	3.90
MP Elevation	784.21	**Pump Intake (ft-bmp)**	45	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:00	**Well Volumes Purged**		**Sample ID**	YAT-YGWA-4I	**Sampled by**	Perry Studebaker
Purge Start	11:11	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	11:54						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:11:00	00:00	150	24.78	6.09	139.68	0.28	3.50	17.80	152.58
11:16:00	05:00	150	24.88	6.04	143.01	0.22	1.61	17.60	153.33
11:21:00	10:00	150	24.93	6.08	140.47	0.36	1.66	17.60	151.57
11:26:00	15:00	150	24.96	6.15	136.29	0.27	2.54	17.60	150.18
11:31:00	20:00	150	24.98	6.15	135.03	0.22	2.71	17.60	149.46
11:36:00	25:00	150	25	6.11	134.44	0.21	2.54	17.10	149.51
11:41:00	29:31	150	25.01	6.09	132.35	0.18	2.25	17.00	147.98
11:46:00	34:31	150	25.03	6.09	131.92	0.21	2.34	17.30	146.53
11:51:00	39:31	150	25.03	6.01	130.26	0.22	2.37	17.40	149.50
11:52:00	40:49	150	25.03	6.03	128.80	0.22	2.45	17.50	148.00
11:54:00	42:36	150	25.03	6.00	127.14		2.45	17.60	148.98
11:54:00	43:09	150	25.03	6.00	127.03		2.48	17.40	148.48

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

Comments: None

Well Casing Volume Conversion

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

Well Information

Well Location: _____ Well Locked at Arrival: _____

Condition of Well: _____ Well Locked at Departure: _____

Groundwater Sampling Form

Updated : 8/20/2024 5:17:34 PM +00:00

Project Number	30143608	**Well ID**	YGWA-1D			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.05	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	49.87	**Total Depth (ft-bmp)**	128.85	**Water Column(ft)**	78.98	**Gallons in Well**	12.83
MP Elevation	837.25	**Pump Intake (ft-bmp)**	108	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:30	**Well Volumes Purged**	0.07	**Sample ID**	YAT-YGWA-1D	**Sampled by**	David Prouty
Purge Start	11:47	**Gallons Purged**	0.92	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:10						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
11:47:00	00:00	100	49.93	7.10	140.92	0.53	4.36	19.80	-64.78
11:52:00	05:00	100	49.93	7.16	154.01	0.63	2.50	19.70	-77.67
11:57:00	10:00	100	49.93	7.21	160.89	1.17	1.54	19.70	-83.86
12:02:00	15:00	100	49.93	7.23	163.49	0.49	0.98	19.30	-86.56
12:07:00	20:00	100	49.93	7.22	166.80	0.79	0.60	18.30	-85.32
12:12:00	25:00	100	49.93	7.18	165.95	1.27	0.46	18.10	-79.16
12:17:00	30:00	100	49.93	7.17	163.82	1.65	0.36	18.50	-73.34
12:22:00	35:00	100	49.93	7.16	160.88	2.42	0.35	18.80	-67.04

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 5:31:58 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3D			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	83.88	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	33.08	**Total Depth (ft-bmp)**	134.18	**Water Column(ft)**	101.10	**Gallons in Well**	16.43
MP Elevation	796.78	**Pump Intake (ft-bmp)**	113	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	13:02	**Well Volumes Purged**	0.05	**Sample ID**	YAT-YGWA-3D	**Sampled by**	Kim Lapszynski
Purge Start	12:40	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:00						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:40:00	00:00	150	33.08	6.84	240.01	0.73	2.56	28.70	18.46
12:45:00	05:00	150	33.18	7.32	232.83	1.05	0.35	20.00	-145.62
12:50:00	10:00	150	33.18	7.51	234.66	0.42	0.15	19.90	-147.79
12:55:00	15:00	150	33.18	7.56	234.23	0.25	0.12	20.00	-147.74
13:00:00	20:00	150	33.19	7.59	234.87	0.27	0.12	20.10	-150.23

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, F, SO4	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 6:29:30 PM +00:00

Project Number	30143623	**Well ID**	YGWA-20S			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Outer Casing	**Screen Setting (ft-bmp)**	19.22	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	11.98	**Total Depth (ft-bmp)**	29.52	**Water Column(ft)**	17.54	**Gallons in Well**	2.85
MP Elevation	767.12	**Pump Intake (ft-bmp)**	24.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:30	**Well Volumes Purged**		**Sample ID**	YGWA-20S	**Sampled by**	Perry Studebaker
Purge Start	14:00	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	14:25						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:00:00	00:00	150	12.17	5.89	54.09	3.66	7.46	19.30	134.23
14:05:00	05:00	150	12.22	5.74	53.14	2.44	7.35	18.60	150.13
14:10:00	10:00	150	12.26	5.81	54.20	1.63	7.31	19.30	150.68
14:15:00	15:00	150	12.3	5.90	54.28	1.48	7.34	20.00	146.84
14:20:00	20:00	150	12.31	5.98	54.67	1.17	7.30	21.10	145.33
14:25:00	25:00	150	12.32	6.00	53.79	1.07	7.16	21.30	147.91

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

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 7:41:03 PM +00:00

Project Number	30113037	**Well ID**	YGWA-3I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	48.85	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	52.09	**Total Depth (ft-bmp)**	59.05	**Water Column(ft)**	6.96	**Gallons in Well**	1.13
MP Elevation	796.55	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:30	**Well Volumes Purged**	1.40	**Sample ID**	YAT-YGWA-3I	**Sampled by**	Kim Lapszynski
Purge Start	13:39	**Gallons Purged**	1.59	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:29						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:39:00	00:00	150	52.09	7.46	211.54	0.74	7.29	27.50	65.47
13:44:00	05:00	150	52.4	7.43	266.56	0.42	5.50	20.30	83.54
13:49:00	10:00	150	52.54	7.37	291.48	0.34	3.62	19.20	86.77
13:54:00	15:00	150	52.67	7.35	291.08	0.41	2.07	18.80	15.19
13:59:00	20:00	150	52.76	7.36	275.80	0.31	1.52	18.70	-48.30
14:04:00	25:00	100	52.74	7.38	259.06	0.14	1.20	18.60	-72.17
14:09:00	30:00	100	52.68	7.39	252.09	0.19	1.09	20.30	-79.51
14:14:00	35:00	100	52.66	7.42	245.56	0.24	0.95	20.10	-84.80
14:19:00	40:00	100	52.65	7.45	233.23	0.17	0.70	19.90	-93.96
14:24:00	45:00	100	52.65	7.46	226.08	0.10	0.56	19.90	-98.73
14:29:00	50:00	100	52.65	7.47	223.09	0.19	0.55	19.70	-100.82

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 8:01:32 PM +00:00

Project Number	30143608	**Well ID**	YGWA-2I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	53.45	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	45.85	**Total Depth (ft-bmp)**	63.75	**Water Column(ft)**	17.90	**Gallons in Well**	2.91
MP Elevation	866.25	**Pump Intake (ft-bmp)**	60	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	15:15	**Well Volumes Purged**	0.35	**Sample ID**	YAT-YGWA-2I	**Sampled by**	David Prouty
Purge Start	14:23	**Gallons Purged**	1.01	**Replicate/ Code No.**	YAT-UGRD-FB-1	**Color**	Clear
Purge End	15:47						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:23:00	00:00	100	45.85	6.59	252.65		7.01	26.80	215.19
14:23:00	00:21	100	46.3	6.59	238.94	1.93	6.88	25.80	216.82
14:28:00	05:21	100	46.71	6.53	223.54	1.39	4.73	21.70	99.84
14:33:00	10:21	80	47.05	6.62	220.34	0.90	2.54	20.80	91.66
14:38:00	15:21	80	47.45	6.65	219.70	1.47	1.51	20.40	158.85
14:43:00	20:21	80	47.86	6.67	220.63	0.74	1.22	20.90	178.36
14:48:00	25:21	80	47.96	6.72	220.01	1.28	1.10	21.50	192.75
14:53:00	30:21	80	48.3	6.78	218.40	1.71	1.01	21.40	189.08
14:58:00	35:21	80	48.5	6.83	217.17	0.61	1.02	21.30	171.59
15:03:00	40:21	80	48.66	6.87	218.02	0.62	1.03	22.20	191.40
15:08:00	45:21	80	48.75	6.91	219.01	1.47	0.98	22.80	188.23

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____ Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 8:28:31 PM +00:00

Project Number	30143622	**Well ID**	YGWA-18I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.67	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.73	**Total Depth (ft-bmp)**	79.97	**Water Column(ft)**	55.24	**Gallons in Well**	8.98
MP Elevation	790.57	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	14:22	**Well Volumes Purged**	0.09	**Sample ID**	YGWA-18I	**Sampled by**	Jessica Ware
Purge Start	13:59	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	14:21						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
13:59:00	00:00	150	24.73	7.03	108.21	0.88	7.09	21.70	199.15
14:04:00	05:00	150	24.82	5.88	111.35	0.76	4.30	19.50	208.24
14:09:00	10:00	150	24.94	5.75	110.38	0.54	4.17	18.70	217.83
14:14:00	15:00	150	24.89	5.74	110.06	0.66	4.22	18.80	212.32
14:19:00	20:00	150	24.97	5.75	110.27	0.48	4.20	18.70	211.68

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

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 8:36:30 PM +00:00

Project Number	30113037	**Well ID**	YGWA-14S			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	24.66	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	17.11	**Total Depth (ft-bmp)**	34.96	**Water Column(ft)**	17.85	**Gallons in Well**	2.90
MP Elevation	748.76	**Pump Intake (ft-bmp)**	30	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:18	**Well Volumes Purged**	0.36	**Sample ID**	YAT-YGWA-14S	**Sampled by**	Kim Lapszynski
Purge Start	15:56	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	16:16						

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)
15:56:00	00:00	200	17.11	6.65	79.67	0.67	8.17	27.70	176.48
16:01:00	05:00	200	17.64	5.59	65.11	0.20	7.52	21.30	179.17
16:06:00	10:00	200	17.65	5.51	63.01	0.34	7.35	21.00	182.28
16:11:00	15:00	200	17.65	5.49	62.72	0.36	7.30	20.60	184.43
16:16:00	20:00	200	17.65	5.49	62.84	0.26	7.25	20.50	187.24

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/20/2024 10:02:39 PM +00:00

Project Number	30113037	**Well ID**	YGWA-30I			**Date**	8/20/2024
Project Location	AP-2		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.18	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	43.25	**Total Depth (ft-bmp)**	59.48	**Water Column(ft)**	16.23	**Gallons in Well**	2.64
MP Elevation	762.58	**Pump Intake (ft-bmp)**	54.5	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	17:37	**Well Volumes Purged**	0.30	**Sample ID**	YAT-YGWA-30I	**Sampled by**	Kim Lapszynski
Purge Start	17:15	**Gallons Purged**	0.79	**Replicate/ Code No.**		**Color**	Clear
Purge End	17:35						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:15:00	00:00	150	43.25	6.79	38.00	0.52	8.25	29.70	171.99
17:20:00	05:00	150	43.26	6.13	39.84	0.26	8.15	22.50	175.78
17:25:00	10:00	150	43.27	6.09	40.66	0.24	7.85	21.80	174.68
17:30:00	15:00	150	43.27	6.07	40.72	0.17	7.75	21.60	175.61
17:35:00	20:00	150	43.28	6.07	40.97	0.16	7.81	21.30	175.69

Constituent Sampled	Container	Number	Preservative
App III/IV Metals	250 mL Plastic	1	HNO3
Cl, SO4, F	250 mL Plastic	1	None
RAD 226/228	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/20/2024 10:17:49 PM +00:00

Project Number	30143608	**Well ID**	YGWA-47			**Date**	8/20/2024
Project Location	AP-1		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	49.4	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	34.92	**Total Depth (ft-bmp)**	59.19	**Water Column(ft)**	24.27	**Gallons in Well**	3.94
MP Elevation	758.22	**Pump Intake (ft-bmp)**	54	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	17:35	**Well Volumes Purged**	0.18	**Sample ID**	YGWA-47	**Sampled by**	David Prouty
Purge Start	17:02	**Gallons Purged**	0.69	**Replicate/ Code No.**		**Color**	Clear
Purge End	18:08						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
17:02:00	00:00	100	34.92	6.28	205.75	0.93	7.14	25.60	175.70
17:07:00	05:00	100	35.15	5.59	213.74	0.84	3.88	22.00	215.73
17:13:00	11:11	100	35.2	5.48	218.25	0.42	2.76	21.40	229.53
17:18:00	16:11	100	35.2	5.48	218.87	0.29	2.53	21.30	230.81
17:23:00	21:11	100	35.2	5.49	219.21	0.34	2.45	21.20	233.75
17:28:00	26:11	100	35.2	5.49	218.49	0.17	2.42	20.90	236.11

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/21/2024 11:00:08 AM +00:00

Project Number	30143623	**Well ID**	YGWA-21I			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	69.6	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	31.93	**Total Depth (ft-bmp)**	79.9	**Water Column(ft)**	47.97	**Gallons in Well**	7.79
MP Elevation	783.7	**Pump Intake (ft-bmp)**	75	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	16:40	**Well Volumes Purged**		**Sample ID**	YGWA-21I	**Sampled by**	Perry Studebaker
Purge Start	16:07	**Gallons Purged**		**Replicate/ Code No.**		**Color**	Clear
Purge End	17:40						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (cm)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
16:07:00	00:00	150	34.29	6.64	192.33	4.18	0.61	21.40	-80.47
16:12:00	05:00	150	34.98	6.60	187.26	3.95	0.36	21.00	-101.90
16:17:00	10:00	100	35.71	6.52	177.95	2.66	0.29	21.40	-103.56
16:22:00	15:00	100	36.05	6.52	173.38	2.32	0.31	22.60	-102.44
16:27:00	20:00	50	36.55	6.57	170.60	2.18	0.30	22.70	-105.41
16:32:00	25:00	50	36.67	6.62	172.86	1.60	0.30	23.50	-106.72
16:37:00	30:00	50	36.78	6.67	175.31	1.38	0.33	24.80	-107.58

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

Comments: Pump rate decreased to 50ml due to drawdown (Geoff Gay approved)

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/21/2024 3:27:13 PM +00:00

Project Number	30143608	**Well ID**	YGWA-18S			**Date**	8/21/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.97	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	21.7	**Total Depth (ft-bmp)**	39.97	**Water Column(ft)**	18.27	**Gallons in Well**	2.97
MP Elevation	790.57	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	09:45	**Well Volumes Purged**	0.36	**Sample ID**	YGWA-18S	**Sampled by**	David Prouty
Purge Start	08:56	**Gallons Purged**	1.06	**Replicate/ Code No.**	YAT-UGRD-FD-2	**Color**	Clear
Purge End	11:16						

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)
8:56:00	00:00	100	21.92	5.30	56.71	10.60	5.25	19.30	242.23
9:01:00	05:00	100	22.1	5.22	55.97	9.38	3.79	18.60	261.23
9:06:00	10:00	100	22.1	5.24	55.47	7.81	3.58	18.50	264.43
9:11:00	15:00	100	22.05	5.26	55.50	6.61	3.48	18.80	266.12
9:16:00	20:00	100	22.04	5.28	55.15	6.06	3.45	18.90	265.68
9:21:00	25:00	100	22.04	5.27	55.42	6.48	3.37	18.90	267.40
9:26:00	30:00	100	22.03	5.28	55.23	4.89	3.33	18.90	271.20
9:31:00	35:00	100	22.03	5.29	55.13	4.06	3.26	19.00	269.50
9:36:00	40:00	100	22.03	5.29	55.25	3.76	3.23	19.10	269.02

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/21/2024 5:27:41 PM +00:00

Project Number	30143608	**Well ID**	YGWA-39			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	58.09	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	19.74	**Total Depth (ft-bmp)**	68.59	**Water Column(ft)**	48.85	**Gallons in Well**	7.94
MP Elevation	818.19	**Pump Intake (ft-bmp)**	63	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	12:40	**Well Volumes Purged**	0.08	**Sample ID**	YAT-YGWA-39	**Sampled by**	David Prouty
Purge Start	12:08	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	13:19						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:08:00	00:00	100	19.95	7.32	368.33		6.67	27.20	181.76
12:13:00	05:00	100	19.85	6.00	374.33	1.93	0.86	20.80	58.37
12:18:00	10:00	100	19.92	5.95	376.50	0.47	0.39	20.40	78.83
12:23:00	15:00	100	19.92	5.94	377.38	0.30	0.31	20.30	77.19
12:28:00	20:00	100	19.92	5.94	377.29	0.21	0.25	20.80	81.88
12:33:00	25:00	100	19.92	5.94	378.26	1.90	0.26	21.30	88.94

Constituent Sampled	Container	Number	Preservative
Cl, SO4, F	250 mL Plastic	1	None
Metals	250 mL Plastic	1	HNO3
RAD Chem	1L Plastic	2	HNO3
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: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/21/2024 7:55:13 PM +00:00

Project Number	30143608	**Well ID**	YGWA-40			**Date**	8/21/2024
Project Location	AMA R6 CCR Landfill		**Weather(°F)**	75.2 degrees F and Partly Cloudy. The wind is blowing W/SW at 3.4 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	37.73	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	24.97	**Total Depth (ft-bmp)**	48.23	**Water Column(ft)**	23.26	**Gallons in Well**	3.78
MP Elevation	815.73	**Pump Intake (ft-bmp)**	42	**Purge Method**	Low-Flow	**Sample Method**	Grab
Sample Time	15:15	**Well Volumes Purged**	0.17	**Sample ID**	YAT-YGWA-40	**Sampled by**	David Prouty
Purge Start	14:44	**Gallons Purged**	0.66	**Replicate/ Code No.**		**Color**	Clear
Purge End	15:50						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:44:00	00:00	100	25.3	5.38	106.91	0.94	2.12	23.40	224.98
14:49:00	05:00	100	25.32	4.96	101.77	0.42	0.33	20.70	310.31
14:54:00	10:00	100	25.35	4.94	100.60	0.16	0.20	20.10	355.49
14:59:00	15:00	100	25.38	4.99	99.01	0.22	0.18	19.90	389.94
15:04:00	20:00	100	25.4	5.02	98.74	0.16	0.15	20.00	421.97
15:09:00	25:00	100	25.4	5.03	97.77	0.23	0.14	19.70	459.51

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

Comments: Collected EB YAT-UGRD-EB-1 at 1525

Well Casing Volume Conversion

Well diameter (inches) = gallons per foot

1 = 0.04 1.5 = 0.09 2.5 = 0.26 3.5 = 0.50 6 = 1.47
1.25 = 0.06 2 = 0.16 3 = 0.37 4 = 0.65

Well Information

Well Location: _____

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

ARCADIS Design & Consultancy for natural and built assets

Updated : 8/21/2024 8:06:04 PM +00:00

Project Number	30143622	**Well ID**	YGWA-5D			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**	76 °F, Sunny, winds at 0 mph.			
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	78.83	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	20.28	**Total Depth (ft-bmp)**	129.13	**Water Column(ft)**	108.85	**Gallons in Well**	17.69
MP Elevation	784.53	**Pump Intake (ft-bmp)**	124	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	09:56	**Well Volumes Purged**	0.04	**Sample ID**	YAT-YGWA-5D	**Sampled by**	Jessica Ware
Purge Start	09:30	**Gallons Purged**	0.79	**Replicate/ Code No.**	YAT-UGRD-FB-2	**Color**	Clear
Purge End	09:56						

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
9:30:00	00:00	100	20.28	7.3	210.47		4.11	20.98	175.88
9:35:00	5	125	20.54	7.27	208.33	2.62	0.7	18.97	265.00
9:40:00	10	125	20.54	7.42	213.36	0.67	0.44	19.00	269.20
9:45:00	15	125	20.54	7.52	216.34	0.97	0.35	19.04	268.50
9:50:00	20	125	20.54	7.56	217.50	0.73	0.32	19.06	269.00
9:55:00	25	125	20.54	7.57	216.57	1.26	0.36	19.16	265.30

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

Condition of Well: _____

Well Completion: _____

Well Locked at Arrival: _____

Well Locked at Departure: _____

Key Number To Well: _____

Groundwater Sampling Form

Updated : 8/21/2024 8:06:05 PM +00:00

Project Number	30143622	**Well ID**	YGWA-17S			**Date**	8/20/2024
Project Location	AMA AP-3, A, B and B'		**Weather(°F)**				
Measuring Pt. Description	Top of Inner Casing	**Screen Setting (ft-bmp)**	29.65	**Casing Diameter (in)**	2	**Well Casing Material**	PVC
Static Water Level (ft-bmp)	13.58	**Total Depth (ft-bmp)**	39.85	**Water Column(ft)**	26.27	**Gallons in Well**	4.27
MP Elevation	783.05	**Pump Intake (ft-bmp)**	35	**Purge Method**	Low-Flow	**Sample Method**	Low-Flow
Sample Time	12:45	**Well Volumes Purged**	0.25	**Sample ID**	YGWA-17S	**Sampled by**	Jessica Ware
Purge Start	12:14	**Gallons Purged**	1.06	**Replicate/ Code No.**		**Color**	Clear
Purge End	12:44						

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)
12:14:00	00:00	100	13.58	5.92	101.71	2.96	4.40	21.70	45.62
12:19:00	05:00	175	13.98	5.45	88.41	0.39	2.26	19.70	79.87
12:24:00	10:00	175	14	5.46	88.65	0.40	2.25	19.50	91.69
12:29:00	15:00	175	13.97	5.49	94.90	0.56	2.21	19.10	99.06
12:34:00	20:00	175	14.02	5.49	95.04	0.64	2.11	18.90	101.70
12:39:00	25:00	175	14.02	5.50	95.20		2.07	18.90	107.24

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

Comments: Last turbidity reading at = 0.62NTU

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: _____ Key Number To Well: _____

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-1
Permit Number:	
Well ID:	YGWA-47
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	09:13:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-17S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:13:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:21:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-18S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	10:23:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-39
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:09:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA R6 CCR Landfill
Permit Number:	
Well ID:	YGWA-40
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	11:51:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-14S
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	11:54:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-30I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:09:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-2I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:09:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:41:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-1D
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	12:42:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-20S
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:11:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-21I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:17:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:30:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-5D
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:31:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AMA AP-3, A, B and B'
Permit Number:	
Well ID:	YGWA-4I
Person Gauging:	Jessica Ware
Date:	8/19/2024
Time:	14:38:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3I
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	14:55:00

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

Groundwater Gauging Well Inspection Report

ARCADIS Design & Consultancy for natural and built assets

Project Location:	AP-2
Permit Number:	
Well ID:	YGWA-3D
Person Gauging:	Jake Swanson
Date:	8/19/2024
Time:	14:57:00

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

Appendix B

Well Installation Report (YGWC-29IB)

ARCADIS

Georgia Power

GEORGIA POWER COMPANY PLANT YATES - AP-2

Groundwater Monitoring Well Installation Report (YGWC-29IB)

March 22, 2024

Georgia Power Company Plant Yates
AP-2

Groundwater Monitoring Well Installation Report
(YGWC-29IB)

March 22, 2024

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

Prepared For:
Georgia Power Company
Newnan, Georgia
Coweta County

David Prouty, P.G.
Project Geologist

Geoff Gay, P.E.
Technical Expert, Vice President

Contents

Table

Figure

Appendices

ARCADIS

Professional Engineer Certification

I certify that I am a qualified groundwater scientist who has received a baccalaureate or post-graduate degree in the natural sciences or engineering and have sufficient training and experience in groundwater hydrology and related fields as demonstrated by state registration and completion of accredited university courses that enable me to make sound professional judgments regarding groundwater monitoring and contaminant fate and transport. I hereby certify that I am a qualified groundwater scientist, in accordance with the Georgia Rules of Solid Waste Management 391-3-4-.01, and 40 CFR Part 258.50(g). I further certify that this report was prepared by me or by a subordinate working under my direction.

3.22.24

J. Geoffrey Gay, P.E.
Technical Expert, Vice President
Georgia Registration No. 27801

Date

1 Introduction

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

The objective of this report is to document the installation of downgradient detection groundwater monitoring well YGWC-29IB. YGWC-29IA was abandoned on August 21, 2023 due to construction lowering of the ground surface elevation along the Chattahoochee River dam area. A well abandonment report was submitted to the Georgia Environmental Protection Division (GA EPD) on October 6, 2023 under separate cover (Arcadis 2023).

Figure 1 depicts the configuration of ash pond AP-2 and the location of the monitoring wells. YGWC-29IB was installed December 11 - 12, 2023. Well construction activities were performed in general accordance with the standards described in the RCRA Technical Enforcement Guidance Document (1986), the Georgia Water Wells Standards Act of 1985, and USEPA Region IV Science and Ecosystem Support Division Design and Installation of Monitoring Wells guidance SESDGUID-101-R2 (USEPA 2018).

2 Drilling and Well Installation

The groundwater monitoring system is designed and installed according to accepted industry standards and following guidelines within the Manual for Groundwater Monitoring (GA EPD 1991). The location and depth of the monitoring well were selected based on the characterization of site-specific hydrogeologic conditions by a qualified professional engineer and geologist. Groundwater monitoring location YGWC-29IB was designed to monitor the upper fractured bedrock transition zone. The screened interval elevations for YGWC-29IB are similar to the former well YGWC-29IA. The installation date, location, elevation, screen interval, and designation for YGWC-29IB is provided in the following sections. Boring and well construction logs are provided in **Appendix B**. **Table 1** provides a summary of the former and new well construction.

2.1 Drilling Method

The monitoring well was installed by Betts Drilling, which had a current and valid bond with the Water Wells Standards Advisory Council for the state of Georgia at the time of drilling and well installation (**Appendix A**).

The monitoring well installation was performed under the oversight and direction of a Georgia Registered Professional Geologist with Arcadis. Borehole advancement drilling was completed using rotosonic drilling techniques. The drilling equipment consisted of a 150CC compact track mounted rotasonic drill rig equipped with 4-inch sonic core rods with a 6-inch outer-casing sleeve. During the drilling, continuous core samples were logged in the field for lithologic properties.

2.2 Screened Intervals

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

Monitoring well YGWC-29IB is constructed with 10 feet of U-Pack® well screen placed at the interval 28 to 38 feet below ground surface (bgs) with a flush-threaded polyvinyl chloride (PVC) end cap.

2.3 Well Construction Materials

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

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

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

2.3.1 Filter Pack

Following placement of the well screen and casing, the annular space adjacent to the well screen was filled with Southern Products & Silica Co. filter pack sand size GP #2 by hand pouring while tagging depth. This size sand is an approximately 7-35 sieve range, well-rounded quartz (silica) sand. Filter pack material was placed within the void space of the U-Pack® well screen and the annular space outside of the well screen extended approximately 2 feet above the top of the well screen. The depth to the top of filter pack was measured and recorded in the well construction logs provided in **Appendix B.**

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

2.3.2 Annular Seal

An annular seal composed of approximately 2 feet of hydrated bentonite was placed on top of the filter pack by slowly pouring the material down the borehole and tamping it into place with a tremie pipe. The bentonite was hydrated for a minimum of 2 hours using potable water and allowed to cure before adding 3/8” bentonite chips and grouting the well.

Following hydration of the bentonite, the remaining annular space was filled to approximately 20 feet bgs with 3/8” Baroid HOLEPLUG® bentonite chips and tremie-grouted to surface with a 30 percent solids bentonite grout (AQUAGARD®). The monitoring well surface completion consists of a locked, aluminum protective casing, a four-foot by four-foot by four-inch concrete pad, and four surface protection bollards.

2.3.3 Cap and Protective Casing

The well riser was fitted with a locking cap and a lockable cover. A one-quarter inch vent hole in the PVC riser pipe provides an avenue for the escape of gas. The protective cap guards the casing from damage, and the

locking cap serves as a security device to prevent well tampering. Bollards were installed around the four corners of the concrete pad to protect the well.

A weep hole was drilled in the outer protective casing near the bottom above the concrete pad. Pea gravel was placed inside the protective casing between the riser pipe and the outer casing. The well is marked with the proper well identification number on the stand-up casing.

3 Well Development

Monitoring well YGWC-29IB was developed on January 16, 2024 using a submersible Whale® Super Purger pump. The well was surged continuously across the entire well screen in with the Whale® pump from top to bottom and over-pumped to remove fines resulting from the well installation activities. Turbidity, pH, temperature, and conductivity measurements ensured that the well was fully developed. Final turbidity measurements following development were less than 5 nephelometric turbidity units (NTU). The well development form is included in **Appendix B**.

4 Survey

The monitoring well locations and top of casing (TOC) elevations were surveyed by Arcadis on January 29, 2024 using a Leica GS16 Global Positioning System (GPS). Horizontal survey locations are relative to the Georgia State Plane Coordinate System, West Zone, NAD83, US Survey Feet. All horizontal locations meet or exceed an accuracy of 0.50 foot. Vertical elevations are referenced to NAVD1988, US Survey Feet and meet an accuracy standard of 0.01 foot. A detailed survey report is included in **Appendix C.**

5 References

Arcadis 2023. Plant Yates, Ash Pond 2 – Well Abandonment Report. Prepared for Georgia Environmental Protection Division. October.

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

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

Table

Table 1 - Well Construction Data
Georgia Power Company
Plant Yates - AP-2
Newnan, Georgia

Well ID	Installation Date	Northing	Easting	Ground Elevation	Top of Casing (TOC) Elevation	Top of Screen Elevation	Bottom of Screen Elevation	Total Depth (ft bTOC)
YGWC-29IB	12/14/2023	1259036.39	2070237.53	710.0	712.88	682.00	672.00	41.18
YGWC-29IA*	1/10/2023	1258981.85	2070212.16	709.0	711.80	687.40	677.40	35.30

Notes:
bTOC: below Top of Casing
* Well abandoned August 21, 2023
Elevation in U.S. Survey Feet (NAVD88)
Northing and Easting Georgia State Plane West, NAD83

Figures

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

33°28'5"N
33°28'0"N
33°27'55"N
33°27'50"N
33°27'45"N
33°27'40"N
33°27'35"N
33°27'30"N
33°27'25"N
33°27'20"N
33°27'15"N
33°27'10"N
33°27'5"N
33°27'0"N
33°26'55"N
33°26'50"N
33°26'45"N

YGWA-47
FORMER ASH POND 1
FORMER GYPSUM STACK LANDFILL
GWA-2
YGWC-29IB
YGWC-29IA
YGWC-26S
YGWC-26I
YGWC-27I
YGWC-27S
YGWC-28I
YGWC-28S
YGWC-29IB
YGWC-29IA
ASH POND 2
PZ-25I
PZ-25S
YGWA-30I
PZ-31S
PZ-13S
PZ-13I
PZ-14I
YGWA-14S
R6 ASH DISPOSAL AREA
ASH MANAGEMENT AREA
YGWA-17S
YGWA-18S
YGWA-18I
PZ-01S
YGWA-1I
YGWA-1D
PZ-03S
YGWA-3I
YGWA-3D
YGWA-2I
YGWA-40
YGWA-39
YGWA-21I
YGWA-20S
YGWA-4I
YGWA-5I
YGWA-5D

LEGEND

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

NOTES:
1. YGWC-29IA WAS ABANDONED ON AUGUST 21, 2023. YGWC-29IB WAS INSTALLED ON 12/12/2023 AND SURVEYED ON 1/29/2024.
2. AERIAL IMAGE SOURCES: JULY 17, 2023 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2021 IMAGERY.

0 437.5 875 1,750
GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE GEORGIA WEST FIPS 1002 FEET

Georgia Power

PLANT YATES AP-2
NEWNAN, GA
WELL INSTALLATION REPORT

WELL LOCATION MAP

ARCADIS

FIGURE
1

Appendix A

Well Driller Performance Bond

GA Water Well Contractor License # 467

Bond Number: **106717740**

Performance Bond For Water Well Contractors

Name of Water Well Contractor TONY BETTS d/b/a - DBA BETTS ENVIRONMENTAL RECOVERY, AND BLAKE CABIT, MALCOM SANDERS, /

Know All Men By These Presents

That we **TONY BETTS** and

DBA BETTS ENVIRONMENTAL RECOVERY, AND BLAKE CABIT, MALCOM SANDERS, AND RYAN MCCORMACK any and all employees, officers and partners (collectively hereinafter, **Principal**), and we **Travelers Casualty and Surety Company of America**, duly organized under the laws of the State of **CONNECTICUT** (hereinafter, **Surety**), are held and firmly bound unto the Director of the Environmental Protection Division, Department of Natural Resources, State of Georgia (**Director**) and his or her successor or successors in office, as **Obligee**, in the full sum of **THIRTY THOUSAND DOLLARS ($30,000.00)** for the payment of which will and truly to be made, the Principal and Surety bind ourselves, our heirs, administrators, successors and assigns, jointly and severally, by these presents.

WHEREAS, the Water Well Standards Act of 1985 (O.C.G.A. §§ 12-5-120 *et seq.*) (the Act) requires that a Water Well Contractor, as that term is defined by the Act, have a performance bond with the Director to ensure compliance with the Act; and WHEREAS the above bound Principal is subject to the terms and provisions of said Act.

NOW, THEREFORE, the conditions of this obligation are such that if the above bound Principal shall fully and faithfully perform the duties and in all things comply with the procedures and standards set forth in the Act as now and hereafter amended, and the rules and regulations promulgated pursuant thereto, including but not limited to the correction of any violation of such procedures and standards upon discovery, irrespective of whether such discovery is made before completion of any well subject to this bond, then this obligation shall be void; otherwise it shall remain in full force and effect.

And Surety, for value received, agrees that no amendment to existing laws, rules or regulations, or adoption of new laws, rules or regulations shall in anyway discharge its obligation on this bond, and does hereby waive notice of any such amendment, adoption or modification.

This bond shall be effective from the **30** day of **June**, **2023** and shall continue in effect until June 30, 2025, unless sooner terminated by mutual agreement of Principal and Surety, provided that no such termination may be made unless sixty (60) days' prior written notice is made to the Director. In the event of such termination, the rights of the Director as Obligee and beneficiaries under this bond which arose prior to such termination shall continue.

IN WITNESS THEREOF the Principal and Surety have caused these present to be duly signed and sealed, this the **01** day of **April**, **2023**.

Principal
TONY BETTS

Print name: **Tony Betts**
Title: **CEO**

Surety
Travelers Casualty and Surety Company of America

Print name: **Russell E. Vance**
Title: **Attorney-in-Fact**

TRAVELERS CASUALTY AND SURETY COMPANY OF AMERICA HARTFORD, CONN.

Revised 03.17.2021

TRAVELERS	Travelers Casualty and Surety Company of America Travelers Casualty and Surety Company St. Paul Fire and Marine Insurance Company Farmington Casualty Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS: That Travelers Casualty and Surety Company of America, Travelers Casualty and Surety Company, St. Paul Fire and Marine Insurance Company, and Farmington Casualty Company are corporations duly organized under the laws of the State of Connecticut (herein collectively called the "Companies"), and that the Companies do hereby make, constitute and appoint **Russell E. Vance**, of **Hartford, CT**, their true and lawful Attorney(s)-in-Fact, to sign, execute, seal and acknowledge the following bond:

Surety Bond No.: 106717740 **Principal: TONY BETTS d/b/a - DBA BETTS ENVIRONMENTAL RECOVERY, AND BLAKE CABIT, MALCOM SANDERS, AND RYAN MCCORMACK**

IN WITNESS WHEREOF, the Companies have caused this instrument to be signed and their corporate seals to be hereto affixed, this **21st** day of **April, 2021.**

State of Connecticut

By: _____
Robert L. Raney, Senior Vice President

City of Hartford ss.

On this the **21st** day of **April, 2021**, before me personally appeared **Robert L. Raney**, who acknowledged himself to be the Senior Vice President of each of the Companies, and that he, as such, being authorized so to do, executed the foregoing instrument for the purposes therein contained by signing on behalf of said Companies by himself as a duly authorized officer.

IN WITNESS WHEREOF, I hereunto set my hand and official seal.

My Commission expires the **30th** day of **June, 2026**

_____
Anna P. Nowik, Notary Public

This Power of Attorney is granted under and by the authority of the following resolutions adopted by the Boards of Directors of each of the Companies, which resolutions are now in full force and effect, reading as follows:

RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President, any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary may appoint Attorneys-in-Fact and Agents to act for and on behalf of the Company and may give such appointee such authority as his or her certificate of authority may prescribe to sign with the Company's name and seal with the Company's seal bonds, recognizances, contracts of indemnity, and other writings obligatory in the nature of a bond, recognizance, or conditional undertaking, and any of said officers or the Board of Directors at any time may remove any such appointee and revoke the power given him or her; and it is

FURTHER RESOLVED, that the Chairman, the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President may delegate all or any part of the foregoing authority to one or more officers or employees of this Company, provided that each such delegation is in writing and a copy thereof is filed in the office of the Secretary; and it is

FURTHER RESOLVED, that any bond, recognizance, contract of indemnity, or writing obligatory in the nature of a bond, recognizance, or conditional undertaking shall be valid and binding upon the Company when (a) signed by the President, any Vice Chairman, any Executive Vice President, any Senior Vice President or any Vice President, any Second Vice President, the Treasurer, any Assistant Treasurer, the Corporate Secretary or any Assistant Secretary and duly attested and sealed with the Company's seal by a Secretary or Assistant Secretary; or (b) duly executed (under seal, if required) by one or more Attorneys-in-Fact and Agents pursuant to the power prescribed in his or her certificate or their certificates of authority or by one or more Company officers pursuant to a written delegation of authority; and it is

FURTHER RESOLVED, that the signature of each of the following officers: President, any Executive Vice President, any Senior Vice President, any Vice President, any Assistant Vice President, any Secretary, any Assistant Secretary, and the seal of the Company may be affixed by facsimile to any Power of Attorney or to any certificate relating thereto appointing Resident Vice Presidents, Resident Assistant Secretaries or Attorneys-in-Fact for purposes only of executing and attesting bonds and undertakings and other writings obligatory in the nature thereof, and any such Power of Attorney or certificate bearing such facsimile signature or facsimile seal shall be valid and binding upon the Company and any such power so executed and certified by such facsimile signature and facsimile seal shall be valid and binding on the Company in the future with respect to any bond or understanding to which it is attached.

I, **Kevin E. Hughes**, the undersigned, Assistant Secretary of each of the Companies, do hereby certify that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which remains in full force and effect.

Dated this 01 day of April, 2023.

_____
Kevin E. Hughes, Assistant Secretary

To verify the authenticity of this Power of Attorney, please call us at 1-800-421-3880.
Please refer to the above-named Attorney(s)-in-Fact and the details of the bond to which this Power of Attorney is attached.

Appendix B

Well Construction and Development Logs

RECORD OF BOREHOLE YGWC-29IB

SHEET 1 of 1

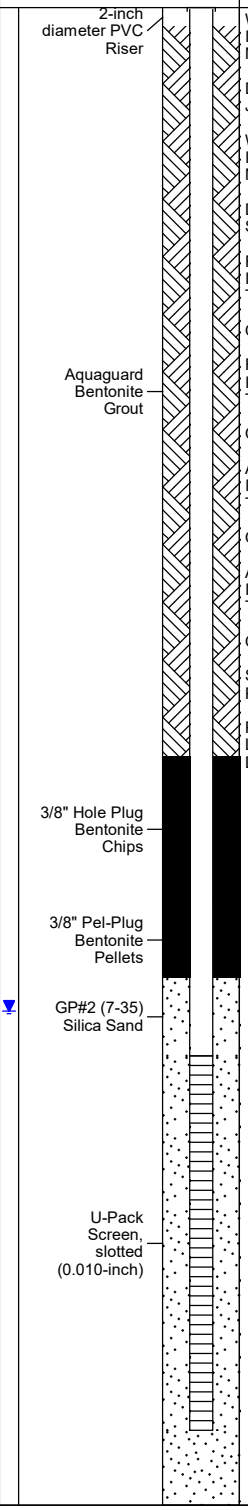
PROJECT: Georgia Power Plant Yates
PROJECT NUMBER: 30143622
DRILLED DEPTH: 40.0 ft
LOCATION: Newnan, GA

DRILL RIG: TerraSonic 150CC
DATE STARTED: 12/11/2023
DATE COMPLETED: 12/12/2023

NORTHING: 1259036.39
EASTING: 2070237.53
GS ELEVATION: 710
TOC ELEVATION: 712.88

DEPTH W.L.: 26.81
ELEVATION W.L.: 686.07
DATE W.L.: 1/16/2024
TIME W.L.: 12:45:00 PM

DEPTH (ft)	DESCRIPTION	USCS	GRAPHIC LOG	DEPTH (ft)	SAMPLE NO.	PHOTO	REC
0	0.0 - 17.4 (SM) Silty SAND; 5YR 5/6; loose; fine grained; poorly sorted; subangular; slightly moist; FILL.	SM		0.0	1		7.5 10.0
5	Grading to 10YR 6/4.						
10	Grading to 10YR 5/4.				2		10.0 10.0
	Grading to 2.5YR 4/1.						
	Grading to 2.5YR 5/4.						
15	Grading to 2.5YR 5/2.						
	Grading to 2.5YR 5/3.						
	17.4 - 28.7 (ML) Sandy SILT; 7.5YR 4/4; soft; non-plastic; moist.	ML		17.4	3		10.0 10.0
20	Grading to 7.5YR 5/6						
25							
30	28.7 - 40.0 Biotite Schist; interbedded with Biotite Gneiss; hard; medium grained; finely foliated; GLEY1 2.5/N.	BED-ROCK		28.7	4		6.9 10.0
	Very slightly weathered with trace iron staining.						
	Grading to GLEY1 3/N						
35	Grading to GLEY2 8/10B						
40	Boring terminated at 40 feet bgs.						



YGWC-29IB MONITORING WELL DIAGRAM and NOTES

WELL CONSTRUCTION DETAILS

WELL CASING
Interval: -2.88'-28'
Material: Schedule 40 PVC
Diameter: 2"
Joint Type: Threaded

WELL SCREEN
Interval: 28'-38'
Material: U-Pack Schedule 40 PVC
Diameter: 2"
Slot Size: 0.010"

FILTER PACK
Interval: 25.9'-40'
Type: Southern Products and Silica GP#2
Quantity: 2.5 cf

FILTER PACK SEAL
Interval: 23.9'-25.9'
Type: 3/8" Pel-Plug Bentonite Pellets
Quantity: 0.6 cf

ANNULUS SEAL
Interval: 20'-23.9'
Type: 3/8" Hole Plug Bentonite Chips
Quantity: 1 cf

ANNULUS SEAL
Interval: 0.5'-20'
Type: Aquaguard Bentonite Grout
Quantity: 3.9 cf

SURFACE COMPLETION
Protection: 4"x4" Aluminum
Pad: 4'x4' Concrete
Lock: Yes
Date: 12/17/2023

DRILLING COMPANY: Betts Drilling
DRILLER: Kam Johnson

CHECKED BY: David Prouty
DATE: 2/12/2024

ARCADIS

ARCADIS Design & Consultancy for natural and built assets

WELL DEVELOPMENT LOG

Project No. 30113037

Project Name GPC Plant Yates

Project Location Newnan, GA

Well ID YGWC-29IB

Date 1/16/2024

Start Time 1300

End Time 1520

Evacuation Data:

Depth to bottom of well (ft bls) 41.5' BTOC

Depth to water from top of casing 26.81

Water Column (ft) 14.69

Gallons in Well 2.39

Casing stick-up above concrete (feet) 2.88

Screened Interval (ft bls) 28-~~29~~38

Casing Volume

Time	Flow Rate (gpm)	Gallons Removed	Water Level	pH	Specific Cond. (mS/cm)	Temperature (°C)	Turbidity (NTU)	Appearance/Notes
1300								Surge
1400	0.8	25					90.5	
1406	0.8	30					24.3	
1413	0.8	35	36.8				7.72	
								Surge
1424								Purge
1430	0.8	40					78.3	
1436	0.8	45	35.2				15.9	
								Surge
1445	0.8							Purge
1451	0.8	50	35.7				50.1	
1457	0.8	55	35.9				5.51	
								Slowed pump
								attached YSI
1505	0.1	55.5	28.6	6.30	336.6	16.9	0.76	
1510	0.1	56.0	27.4	6.32	333.6	17.1	1.92	
1515	0.1	56.5	27.4	6.30	329.7	17.0	0.88	
1520	0.1	57.0	27.3	6.30	327.8	16.9	0.82	

ARCADIS Design & Consultancy for natural and built assets

INSTRUMENT CALIBRATION LOG

Project Name: GPC Plant Yates **Personnel:** David Prouty

Project Number: 30113037

Date / Time : 1/16/2024 1310
Weather : Clear 32°
Instruments: YSI 556
04398

CALIBRANT	Pre-Calibration	Value Entered	Post-Calibration
pH 7.0	7.15	7.0	7.08
pH 4.0	4.02	4.0	4.01
pH 10.0	10.05	10.0	10.01
Sp. Conductivity (us/cm)	1139	1.413	1414
ORP (mV)	281.0	240	240.0
Dissolved Oxygen (%)	111.7	100%	100.1
Turbidity (NTU)	101	100	100
Turbidity (NTU)	19.9	20	20.1
Turbidity (NTU)	9.98	10	10.0

Notes:
Barometric Pressure = 744.9 mm Hg 12.5°C

Date / Time :
Weather :
Instruments:

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

Notes:
Barometric Pressure = mm Hg

Date / Time : 1/ /2024
Weather :
Instruments:

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

Notes:
Barometric Pressure = mm Hg

Date / Time : 1/ /2024
Weather :
Instruments:

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

Notes:
Barometric Pressure = mm Hg

Conversions:
1 inch of Hg = 25.4 mm Hg

Appendix C

Well Survey Report

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

Arcadis U.S., Inc.
2839 Paces Ferry Road
Suite 900
Atlanta, GA 30339
United States
Phone: 770 431 8666
Fax: 770 435 2666
www.arcadis.com

Date: February 2, 2024
Subject: Survey of YGWC-29IB, PZ-54D, PZ-55, and PZ-56D

Dear Ms. Hartley,

Attached is a copy of the survey report for YGWC-29IB, PZ-54D, PZ-55, PZ-56D at Plant Yates.

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

Sincerely,
Arcadis U.S., Inc.

Mark Lupton, PLS
Survey Department Manager

Email: Mark.Lupton@arcadis.com
Direct Line: 770 384 6578

CC. Geoff Gay, PE

Enclosures:
Well Survey Report

DESCRIPTION AND SCOPE

Arcadis performed horizontal and vertical field survey locations at YGWC-29IB, PZ-54D, PZ-55, PZ-56D.

The Arcadis field survey team obtained horizontal and vertical locations for the top of the casings (TOC) and surveyed the nails located on the concrete pads around the well/piezometers. The team completed the field survey on these locations on 01/29/2024.

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

See the attached exhibit detailing the surveyed locations for YGWC-29IB, PZ-54D, PZ-55, and PZ-56D.

CERTIFICATION

I, Mark Lupton, being a Georgia Licensed Professional Land Surveyor, in accordance with the Georgia Board of Professional Engineers and Land Surveyors do hereby certify that the information contained herein is true and correct and has been prepared in accordance with generally accepted good land survey practices under my supervision, and the data is reliable to a horizontal accuracy of 0.5 foot and an elevational accuracy of 0.01 foot for each surveyed point.

FINAL REVIEW:

Mark Lupton, PLS DATE: February 02, 2024

Mark Lupton, PLS
2839 Paces Ferry Road SE Suite 900
Atlanta, GA 30339
770.431-8666

EXHIBIT 1

Plant Yates – AP-2 Monitoring Well and Piezometer Survey

Monument	Concrete Base Point	NAVD88 Elevation	Georgia State Plane Grid (NAD83), West Zone		WGS84 Latitude	Longitude
			Northing	Easting		
YGWC-29IB	Casing	712.88	1259036.39	2070237.53	33° 27' 32.574" N	84° 54' 31.800" W
	PK Nail	710.07	1259036.07	2070238.50		
	Ground	710.0				

Notes:
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-27i being at El. 713.35'

Elevations & coordinates are U.S. Survey feet

Plant Yates – AMA Monitoring Well and Piezometer Surveys (Note PZ-54D and PZ-56D are in the same casing)

Monument	Concrete Base Point	NAVD88 Elevation	Georgia State Plane Grid (NAD83), West Zone		WGS84 Latitude	Longitude
			Northing	Easting		
PZ-54D	Casing	795.56	1256904.08	2073369.06	33° 27' 11.699" N	84° 53' 54.661" W
	PK Nail	792.50	1256904.11	2073367.83		
	Ground	792.5				

Notes:
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-41 being at El. 801.23'

Elevations & coordinates are U.S. Survey feet

Monument	Concrete Base Point	NAVD88 Elevation	Georgia State Plane Grid (NAD83), West Zone		WGS84 Latitude	Longitude
			Northing	Easting		
PZ-56D	Casing	795.56	1256904.08	2073369.06	33° 27' 11.699" N	84° 53' 54.661" W
	PK Nail	792.50	1256904.11	2073367.83		
	Ground	792.5				

Notes:
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-41 being at El. 801.23'

Elevations & coordinates are U.S. Survey feet

Monument	Concrete Base Point	NAVD88 Elevation	Georgia State Plane Grid (NAD83), West Zone		WGS84 Latitude	Longitude
			Northing	Easting		
PZ-55	Casing	774.02	1257131.73	2073193.74	33° 27' 13.939" N	84° 53' 56.749" W
	PK Nail	771.32	1257130.72	2073193.55		
	Ground	771.3				

Notes:
NAD83(2011) coordinates system on site established by utilizing eGPS VRS & OPUS Solutions

Elevations derived from Arcadis BM#1 (El. 758.24) tied to well YGWC-41 being at El. 801.23'

Elevations & coordinates are U.S. Survey feet

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

Appendix C

Analytical Lab and Data Validation Reports (February and August 2024)

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92715028 and 92715049

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

Report #53647R
Review Level: Tier II
Project: 30113037.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92715028 and 92715049 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWC-27S	92715028001 92715049001	Water	2/21/2024		X	X	X
YAT-YGWC-27I	92715028002 92715049002	Water	2/21/2024		X	X	X
YAT-YGWC-28S	92715028003 92715049003	Water	2/21/2024		X	X	X
YAT-YGWC-28I	92715028004 92715049004	Water	2/21/2024		X	X	X
YAT-AP2-FD-1	92715028005 92715049005	Water	2/21/2024	YAT-YGWC-28I	X	X	X
YAT-AP2-EB-1	92715028006 92715049006	Water	2/21/2024		X	X	X
YAT-AP2-FB-1	92715028007 92715049007	Water	2/21/2024		X	X	X
YAT-YGWC-26S	92715028008 92715049008	Water	2/22/2024		X	X	X
YAT-YGWC-26I	92715028009 92715049009	Water	2/22/2024		X	X	X
YAT-YGWC-29IB	92715028010 92715049010	Water	2/22/2024		X	X	X

Notes:

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

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 Methods (SM) SM2320B 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.

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

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

Boron was detected in the associated equipment blank YAT-AP2 EB-1 and field blank YAT-AP2-FB-1; however, the associated sample results were greater than the BAL. 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 analytDcal method.

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample YAT-YGWC-27S in association with SW-846 6020B and SW-846 7470A analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6020B and SW-846 7470A. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-28I / YAT-AP2-FD-1	Potassium	5.7	5.8	1.7%
	Sodium	9.3	9.5	2.1%
	Calcium	27.8	28.4	2.1%
	Magnesium	16.2	16.6	2.4%
	Barium	0.062	0.064	3.2%
	Boron	1.6	1.7	6.1%
	Cadmium	0.00050 U	0.00011 J	AC
	Lithium	0.0056 J	0.0058 J	
	Molybdenum	0.0013 J	0.0014 J	

Note:
AC = Acceptable

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
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
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Alkalinity by SM2320B	Water	14 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWC-27S YAT-YGWC-27I YAT-YGWC-28S YAT-YGWC-28I YAT-AP2-FD-1 YAT-YGWC-26S YAT-YGWC-26I YAT-YGWC-29IB	TDS (EB, FB)	Detected sample results >RL and <BAL	“J+” at detected sample concentration

Notes:
EB Equipment blank
FB Field blank
RL Reporting limit

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed on sample locations YAT-YGWC-28S in association with alkalinity analysis and YAT-YGWC-28I in association with alkalinity and anions analysis exhibited recoveries within control limits.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis using samples YAT-YGWC-28S in association with alkalinity analysis and YAT-YGWC-28I in association with alkalinity and anions. The MS/MSD recoveries exhibited acceptable RPDs.

The laboratory duplicate analysis performed on sample location YAT-AP2-FD-1 in association with TDS analysis exhibited an RPD within the control limit.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-28I / YAT-AP2-FD-1	Total Dissolved Solids	213	214	0.5%
	Alkalinity, Bicarbonate	152	154	1.3%
	Alkalinity, Total	152	154	1.3%
	Chloride	10.4	10.5	1.0%
	Fluoride	0.096 J	0.099 J	AC
	Sulfate	8.5	8.3	2.4%

Note:
AC = Acceptable

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

General Chemistry: SM2540C, SM2320B, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/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 (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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 and Radium-228 were detected in the method blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

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

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

MS analysis was not performed using a sample from these SDGs.

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
YAT-YGWC-28I / YTC-AP2-FD-1	Radium-226	0.103 U ± 0.131	0.137 U ± 0.163	AC
	Radium-228	0.344 U ± 0.366	0.928 U ± 0.561	
	Total Radium	0.447 U ± 0.497	1.07 U ± 0.724	

Note:
AC = Acceptable

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

5. Tracer or Carrier

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

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

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

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		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: 

DATE: April 18, 2024

PEER REVIEW: Dennis Capria

DATE: April 29, 2024

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

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Scan QR Code for Instructions

927|5028

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #:	Task No. YAT-CCR-ASSMT-202451
Project Name:	Georgia Power Yates
Site Collection Info/Facility ID (as applicable):	YAT AP-2
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other_____
Regulatory Program (DW, RCRA, etc.) as applicable:	
Rush (Pre-approval required):	[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:	Standard TAT

Contact/Report To:	Lauren Hartley
Phone #:	470-620-6176
E-Mail:	laucoker@southernco.com
Cc E-Mail:	Arcadis contacts
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPCR2474-0002
Quote #:	
County / State origin of sample(s):	Georgia
DW PWSID # or WW Permit # as applicable:	
Field Filtered (if applicable):	[ ] Yes [ ] No
Analysis:	

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-26S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-26I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-27S	WG	G	2/21/24	0940				6		X	X	X	X	X	See Remarks 001	
YAT-YGWC-27I	WG	G	2/21/24	1105				6		X	X	X	X	X	See Remarks 002	
YAT-YGWC-28S	WG	G	2/21/24	1445				6		X	X	X	X	X	See Remarks 003	
YAT-YGWC-28I	WG	G	2/21/24	1635				6		X	X	X	X	X	See Remarks 004	
YAT-AP2-FD-1	WG	G	2/21/24	—				6		X	X	X	X	X	See Remarks 005	
YAT-AP2-EB-1	WG	G	2/21/24	1510				6		X	X	X	X	X	See Remarks 006	
YAT-AP2-FB-1	WG	G	2/21/24	1500				6		X	X	X	X	X	See Remarks 007	
YAT-YGWC-29IB	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis)

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time
	2/22/24 0810	Arcadis	2/22/24 0810
Arcadis	2/22/24 0903	Pace	2/22/24 1540
Pace	2/22/24 1545		2/22/24 1545

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92715826

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT 202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-2	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-26S	WG	G	2/22/24	1015				6		X	X	X	X	X	See Remarks 008	
YAT-YGWC-26I	WG	G	2/22/24	1200				6		X	X	X	X	X	See Remarks 009	
YAT-YGWC-27S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-27I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-28S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-28I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AP2-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AP2-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AP2-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-29IB	WG	G	2/22/24	1410				6		X	X	X	X	X	See Remarks 010	

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct.Num / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) David Prouty

Additional Instructions from Pace®

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

	Date/Time		Date/Time		
Relinquished by/Company: (Signature)	2/23/24 0800	Received by/Company: (Signature)	2/23/24 ARCADIS	2/23/24 0800	Tracking Number:
Relinquished by/Company: (Signature) ARCADIS	2/23/24 0918	Received by/Company: (Signature) Ryan Williams / Pace	2/23/24 0918		Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature) Ryan Williams / Pace	2/23/24 1307	Received by/Company: (Signature)	2/23/24 1307		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:		Page: 1 of 1

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SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92715028	YAT-YGWC-27S	SM2540C	Total Dissolved Solids	149	mg/L	J+	Blank contamination
	YAT-YGWC-27I	SM2540C	Total Dissolved Solids	194	mg/L	J+	Blank contamination
	YAT-YGWC-28S	SM2540C	Total Dissolved Solids	235	mg/L	J+	Blank contamination
	YAT-YGWC-28I	SM2540C	Total Dissolved Solids	213	mg/L	J+	Blank contamination
	YAT-AP2-FD-1	SM2540C	Total Dissolved Solids	214	mg/L	J+	Blank contamination
	YAT-YGWC-26S	SM2540C	Total Dissolved Solids	188	mg/L	J+	Blank contamination
	YAT-YGWC-26I	SM2540C	Total Dissolved Solids	215	mg/L	J+	Blank contamination
	YAT-YGWC-29IB	SM2540C	Total Dissolved Solids	146	mg/L	J+	Blank contamination
92715049	No qualifiers assigned						

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

J+ = estimated result with possible high bias

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 07, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-2
Pace Project No.: 92715028

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 22, 2024 and February 23, 2024. 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 - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-2
Pace Project No.: 92715028

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
Virginia Certification #: 460204

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-2
Pace Project No.: 92715028

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92715028001	**YAT-YGWC-27S**	Water	02/21/24 09:40	02/22/24 09:03
92715028002	**YAT-YGWC-27I**	Water	02/21/24 11:05	02/22/24 09:03
92715028003	**YAT-YGWC-28S**	Water	02/21/24 14:45	02/22/24 09:03
92715028004	**YAT-YGWC-28I**	Water	02/21/24 16:35	02/22/24 09:03
92715028005	**YAT-AP2-FD-1**	Water	02/21/24 00:00	02/22/24 09:03
92715028006	**YAT-AP2-EB-1**	Water	02/21/24 15:10	02/22/24 09:03
92715028007	**YAT-AP2-FB-1**	Water	02/21/24 15:00	02/22/24 09:03
92715028008	**YAT-YGWC-26S**	Water	02/22/24 10:15	02/23/24 09:18
92715028009	**YAT-YGWC-26I**	Water	02/22/24 12:00	02/23/24 09:18
92715028010	**YAT-YGWC-29IB**	Water	02/22/24 14:10	02/23/24 09:18

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-2
Pace Project No.: 92715028

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92715028001	**YAT-YGWC-27S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715028002	**YAT-YGWC-27I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715028003	**YAT-YGWC-28S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715028004	**YAT-YGWC-28I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715028005	**YAT-AP2-FD-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715028006	**YAT-AP2-EB-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715028007	**YAT-AP2-FB-1**	EPA 6010D	DRB	4

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-2
Pace Project No.: 92715028

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	JCM	3
92715028008	**YAT-YGWC-26S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715028009	**YAT-YGWC-26I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92715028010	**YAT-YGWC-29IB**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92715028

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715028001	**YAT-YGWC-27S**					
EPA 6010D	Potassium	1.5	mg/L	0.50	03/04/24 10:43	
EPA 6010D	Sodium	17.0	mg/L	1.0	03/04/24 10:43	
EPA 6010D	Calcium	20.4	mg/L	1.0	03/04/24 10:43	
EPA 6010D	Magnesium	7.6	mg/L	0.050	03/04/24 10:43	
EPA 6020B	Barium	0.047	mg/L	0.0050	03/04/24 16:35	
EPA 6020B	Boron	0.91	mg/L	0.040	03/04/24 16:35	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	03/04/24 16:35	
SM 2540C-2015	Total Dissolved Solids	149	mg/L	25.0	02/28/24 12:01	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	95.3	mg/L	5.0	02/29/24 15:59	
SM 2320B-2011	Alkalinity, Total as CaCO3	95.3	mg/L	5.0	02/29/24 15:59	
EPA 300.0 Rev 2.1 1993	Chloride	12.6	mg/L	1.0	02/24/24 17:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11	mg/L	0.10	02/24/24 17:07	
EPA 300.0 Rev 2.1 1993	Sulfate	13.0	mg/L	1.0	02/24/24 17:07	
92715028002	**YAT-YGWC-27I**					
EPA 6010D	Potassium	4.4	mg/L	0.50	03/04/24 11:54	
EPA 6010D	Sodium	11.6	mg/L	1.0	03/04/24 11:54	
EPA 6010D	Calcium	27.7	mg/L	1.0	03/04/24 11:54	
EPA 6010D	Magnesium	15.2	mg/L	0.050	03/04/24 11:54	
EPA 6020B	Barium	0.060	mg/L	0.0050	03/04/24 16:50	
EPA 6020B	Beryllium	0.00011J	mg/L	0.00050	03/04/24 16:50	
EPA 6020B	Boron	1.8	mg/L	0.040	03/04/24 16:50	
EPA 6020B	Cobalt	0.016	mg/L	0.0050	03/04/24 16:50	
EPA 6020B	Lithium	0.0070J	mg/L	0.030	03/04/24 16:50	
EPA 6020B	Molybdenum	0.0015J	mg/L	0.010	03/04/24 16:50	
SM 2540C-2015	Total Dissolved Solids	194	mg/L	25.0	02/28/24 12:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	136	mg/L	5.0	02/29/24 16:07	
SM 2320B-2011	Alkalinity, Total as CaCO3	136	mg/L	5.0	02/29/24 16:07	
EPA 300.0 Rev 2.1 1993	Chloride	12.5	mg/L	1.0	02/24/24 17:22	
EPA 300.0 Rev 2.1 1993	Fluoride	0.082J	mg/L	0.10	02/24/24 17:22	
EPA 300.0 Rev 2.1 1993	Sulfate	3.8	mg/L	1.0	02/24/24 17:22	
92715028003	**YAT-YGWC-28S**					
EPA 6010D	Potassium	4.0	mg/L	0.50	03/04/24 11:56	
EPA 6010D	Sodium	11.3	mg/L	1.0	03/04/24 11:56	
EPA 6010D	Calcium	31.0	mg/L	1.0	03/04/24 11:56	
EPA 6010D	Magnesium	22.3	mg/L	0.050	03/04/24 11:56	
EPA 6020B	Barium	0.21	mg/L	0.0050	03/04/24 16:53	
EPA 6020B	Boron	2.3	mg/L	0.040	03/04/24 16:53	
EPA 6020B	Cobalt	0.00074J	mg/L	0.0050	03/04/24 16:53	
EPA 6020B	Molybdenum	0.00068J	mg/L	0.010	03/04/24 16:53	
SM 2540C-2015	Total Dissolved Solids	235	mg/L	25.0	02/28/24 12:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	178	mg/L	5.0	02/29/24 17:17	
SM 2320B-2011	Alkalinity, Total as CaCO3	178	mg/L	5.0	02/29/24 17:17	
EPA 300.0 Rev 2.1 1993	Chloride	17.5	mg/L	1.0	02/24/24 17:36	
EPA 300.0 Rev 2.1 1993	Fluoride	0.15	mg/L	0.10	02/24/24 17:36	
EPA 300.0 Rev 2.1 1993	Sulfate	3.9	mg/L	1.0	02/24/24 17:36	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92715028

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715028004	**YAT-YGWC-28I**					
EPA 6010D	Potassium	5.7	mg/L	0.50	03/04/24 11:58	
EPA 6010D	Sodium	9.3	mg/L	1.0	03/04/24 11:58	
EPA 6010D	Calcium	27.8	mg/L	1.0	03/04/24 11:58	
EPA 6010D	Magnesium	16.2	mg/L	0.050	03/04/24 11:58	
EPA 6020B	Barium	0.062	mg/L	0.0050	03/04/24 16:57	
EPA 6020B	Boron	1.6	mg/L	0.040	03/04/24 16:57	
EPA 6020B	Lithium	0.0056J	mg/L	0.030	03/04/24 16:57	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	03/04/24 16:57	
SM 2540C-2015	Total Dissolved Solids	213	mg/L	25.0	02/28/24 12:02	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	152	mg/L	5.0	02/29/24 17:39	
SM 2320B-2011	Alkalinity, Total as CaCO3	152	mg/L	5.0	02/29/24 17:39	
EPA 300.0 Rev 2.1 1993	Chloride	10.4	mg/L	1.0	02/24/24 17:50	
EPA 300.0 Rev 2.1 1993	Fluoride	0.096J	mg/L	0.10	02/24/24 17:50	
EPA 300.0 Rev 2.1 1993	Sulfate	8.5	mg/L	1.0	02/24/24 17:50	
92715028005	**YAT-AP2-FD-1**					
EPA 6010D	Potassium	5.8	mg/L	0.50	03/04/24 12:01	
EPA 6010D	Sodium	9.5	mg/L	1.0	03/04/24 12:01	
EPA 6010D	Calcium	28.4	mg/L	1.0	03/04/24 12:01	
EPA 6010D	Magnesium	16.6	mg/L	0.050	03/04/24 12:01	
EPA 6020B	Barium	0.064	mg/L	0.0050	03/04/24 17:01	
EPA 6020B	Boron	1.7	mg/L	0.040	03/04/24 17:01	
EPA 6020B	Cadmium	0.00011J	mg/L	0.00050	03/04/24 17:01	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	03/04/24 17:01	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	03/04/24 17:01	
SM 2540C-2015	Total Dissolved Solids	214	mg/L	25.0	02/28/24 13:52	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	154	mg/L	5.0	02/29/24 18:01	
SM 2320B-2011	Alkalinity, Total as CaCO3	154	mg/L	5.0	02/29/24 18:01	
EPA 300.0 Rev 2.1 1993	Chloride	10.5	mg/L	1.0	02/24/24 19:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.099J	mg/L	0.10	02/24/24 19:02	
EPA 300.0 Rev 2.1 1993	Sulfate	8.3	mg/L	1.0	02/24/24 19:02	
92715028006	**YAT-AP2-EB-1**					
EPA 6020B	Boron	0.061	mg/L	0.040	03/05/24 15:27	
SM 2540C-2015	Total Dissolved Solids	74.0	mg/L	25.0	02/28/24 13:52	
92715028007	**YAT-AP2-FB-1**					
EPA 6020B	Boron	0.035J	mg/L	0.040	03/04/24 17:30	
SM 2540C-2015	Total Dissolved Solids	76.0	mg/L	25.0	02/28/24 13:53	
92715028008	**YAT-YGWC-26S**					
EPA 6010D	Potassium	0.80	mg/L	0.50	03/04/24 18:09	
EPA 6010D	Sodium	18.2	mg/L	1.0	03/04/24 18:09	
EPA 6010D	Calcium	11.0	mg/L	1.0	03/04/24 18:09	
EPA 6010D	Magnesium	15.7	mg/L	0.050	03/04/24 18:09	
EPA 6020B	Barium	0.025	mg/L	0.0050	03/05/24 15:44	
EPA 6020B	Boron	0.78	mg/L	0.040	03/05/24 15:44	
EPA 6020B	Cobalt	0.0012J	mg/L	0.0050	03/05/24 15:44	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.3	mg/L	5.0	03/02/24 19:42	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92715028

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715028008	**YAT-YGWC-26S**					
SM 2320B-2011	Alkalinity, Total as CaCO3	15.3	mg/L	5.0	03/02/24 19:42	
SM 2540C-2015	Total Dissolved Solids	188	mg/L	25.0	02/27/24 11:03	
EPA 300.0 Rev 2.1 1993	Chloride	14.9	mg/L	1.0	02/28/24 00:26	
EPA 300.0 Rev 2.1 1993	Sulfate	89.3	mg/L	1.0	02/28/24 00:26	
92715028009	**YAT-YGWC-26I**					
EPA 6010D	Potassium	2.5	mg/L	0.50	03/04/24 18:12	
EPA 6010D	Sodium	23.8	mg/L	1.0	03/04/24 18:12	
EPA 6010D	Calcium	16.7	mg/L	1.0	03/04/24 18:12	
EPA 6010D	Magnesium	12.0	mg/L	0.050	03/04/24 18:12	
EPA 6020B	Barium	0.057	mg/L	0.0050	03/05/24 15:48	
EPA 6020B	Boron	0.77	mg/L	0.040	03/05/24 15:48	
EPA 6020B	Lithium	0.0078J	mg/L	0.030	03/05/24 15:48	
EPA 6020B	Selenium	0.0041J	mg/L	0.0050	03/05/24 15:48	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	31.3	mg/L	5.0	03/02/24 19:57	
SM 2320B-2011	Alkalinity, Total as CaCO3	31.3	mg/L	5.0	03/02/24 19:57	
SM 2540C-2015	Total Dissolved Solids	215	mg/L	25.0	02/27/24 11:03	
EPA 300.0 Rev 2.1 1993	Chloride	16.0	mg/L	1.0	02/28/24 00:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.10	02/28/24 00:40	
EPA 300.0 Rev 2.1 1993	Sulfate	80.7	mg/L	1.0	02/28/24 00:40	
92715028010	**YAT-YGWC-29IB**					
EPA 6010D	Potassium	3.7	mg/L	0.50	03/04/24 18:15	
EPA 6010D	Sodium	15.8	mg/L	1.0	03/04/24 18:15	
EPA 6010D	Calcium	11.5	mg/L	1.0	03/04/24 18:15	
EPA 6010D	Magnesium	11.6	mg/L	0.050	03/04/24 18:15	
EPA 6020B	Barium	0.081	mg/L	0.0050	03/05/24 15:51	
EPA 6020B	Boron	1.1	mg/L	0.040	03/05/24 15:51	
EPA 6020B	Cadmium	0.00012J	mg/L	0.00050	03/05/24 15:51	
EPA 6020B	Cobalt	0.0071	mg/L	0.0050	03/05/24 15:51	
EPA 6020B	Lithium	0.0051J	mg/L	0.030	03/05/24 15:51	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	68.1	mg/L	5.0	03/02/24 20:03	
SM 2320B-2011	Alkalinity, Total as CaCO3	68.1	mg/L	5.0	03/02/24 20:03	
SM 2540C-2015	Total Dissolved Solids	146	mg/L	25.0	02/27/24 11:03	
EPA 300.0 Rev 2.1 1993	Chloride	10.5	mg/L	1.0	02/28/24 00:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.075J	mg/L	0.10	02/28/24 00:54	
EPA 300.0 Rev 2.1 1993	Sulfate	26.9	mg/L	1.0	02/28/24 00:54	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-YGWC-27S **Lab ID: 92715028001** Collected: 02/21/24 09:40 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.5**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 10:43	7440-09-7	
Sodium	**17.0**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 10:43	7440-23-5	
Calcium	**20.4**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 10:43	7440-70-2	
Magnesium	**7.6**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 10:43	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 16:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 16:35	7440-38-2	
Barium	**0.047**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 16:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 16:35	7440-41-7	
Boron	**0.91**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 16:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 16:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 16:35	7440-47-3	
Cobalt	**0.0016J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 16:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 16:35	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 16:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 16:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 16:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 16:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 08:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**149**	mg/L	25.0	25.0	1		02/28/24 12:01		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**95.3**	mg/L	5.0	5.0	1		02/29/24 15:59		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 15:59		
Alkalinity, Total as CaCO3	**95.3**	mg/L	5.0	5.0	1		02/29/24 15:59		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.6**	mg/L	1.0	0.60	1		02/24/24 17:07	16887-00-6	
Fluoride	**0.11**	mg/L	0.10	0.050	1		02/24/24 17:07	16984-48-8	
Sulfate	**13.0**	mg/L	1.0	0.50	1		02/24/24 17:07	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-YGWC-27I **Lab ID: 92715028002** Collected: 02/21/24 11:05 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.4**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 11:54	7440-09-7	
Sodium	**11.6**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 11:54	7440-23-5	
Calcium	**27.7**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 11:54	7440-70-2	
Magnesium	**15.2**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 11:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 16:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 16:50	7440-38-2	
Barium	**0.060**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 16:50	7440-39-3	
Beryllium	**0.00011J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 16:50	7440-41-7	
Boron	**1.8**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 16:50	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 16:50	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 16:50	7440-47-3	
Cobalt	**0.016**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 16:50	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 16:50	7439-92-1	
Lithium	**0.0070J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 16:50	7439-93-2	
Molybdenum	**0.0015J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 16:50	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 16:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 16:50	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 08:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**194**	mg/L	25.0	25.0	1		02/28/24 12:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**136**	mg/L	5.0	5.0	1		02/29/24 16:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 16:07		
Alkalinity, Total as CaCO3	**136**	mg/L	5.0	5.0	1		02/29/24 16:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.5**	mg/L	1.0	0.60	1		02/24/24 17:22	16887-00-6	
Fluoride	**0.082J**	mg/L	0.10	0.050	1		02/24/24 17:22	16984-48-8	
Sulfate	**3.8**	mg/L	1.0	0.50	1		02/24/24 17:22	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-YGWC-28S **Lab ID: 92715028003** Collected: 02/21/24 14:45 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.0**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 11:56	7440-09-7	
Sodium	**11.3**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 11:56	7440-23-5	
Calcium	**31.0**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 11:56	7440-70-2	
Magnesium	**22.3**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 11:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 16:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 16:53	7440-38-2	
Barium	**0.21**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 16:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 16:53	7440-41-7	
Boron	**2.3**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 16:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 16:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 16:53	7440-47-3	
Cobalt	**0.00074J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 16:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 16:53	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 16:53	7439-93-2	
Molybdenum	**0.00068J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 16:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 16:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 16:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 08:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**235**	mg/L	25.0	25.0	1		02/28/24 12:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**178**	mg/L	5.0	5.0	1		02/29/24 17:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 17:17		
Alkalinity, Total as CaCO3	**178**	mg/L	5.0	5.0	1		02/29/24 17:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**17.5**	mg/L	1.0	0.60	1		02/24/24 17:36	16887-00-6	
Fluoride	**0.15**	mg/L	0.10	0.050	1		02/24/24 17:36	16984-48-8	
Sulfate	**3.9**	mg/L	1.0	0.50	1		02/24/24 17:36	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-YGWC-28I **Lab ID: 92715028004** Collected: 02/21/24 16:35 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.7**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 11:58	7440-09-7	
Sodium	**9.3**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 11:58	7440-23-5	
Calcium	**27.8**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 11:58	7440-70-2	
Magnesium	**16.2**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 11:58	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 16:57	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 16:57	7440-38-2	
Barium	**0.062**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 16:57	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 16:57	7440-41-7	
Boron	**1.6**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 16:57	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 16:57	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 16:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 16:57	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 16:57	7439-92-1	
Lithium	**0.0056J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 16:57	7439-93-2	
Molybdenum	**0.0013J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 16:57	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 16:57	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 16:57	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 08:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**213**	mg/L	25.0	25.0	1		02/28/24 12:02		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**152**	mg/L	5.0	5.0	1		02/29/24 17:39		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 17:39		
Alkalinity, Total as CaCO3	**152**	mg/L	5.0	5.0	1		02/29/24 17:39		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.4**	mg/L	1.0	0.60	1		02/24/24 17:50	16887-00-6	
Fluoride	**0.096J**	mg/L	0.10	0.050	1		02/24/24 17:50	16984-48-8	
Sulfate	**8.5**	mg/L	1.0	0.50	1		02/24/24 17:50	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-AP2-FD-1 **Lab ID: 92715028005** Collected: 02/21/24 00:00 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.8**	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 12:01	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 12:01	7440-23-5	
Calcium	**28.4**	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 12:01	7440-70-2	
Magnesium	**16.6**	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 12:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 17:01	7440-38-2	
Barium	**0.064**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 17:01	7440-41-7	
Boron	**1.7**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 17:01	7440-42-8	
Cadmium	**0.00011J**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 17:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 17:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 17:01	7439-92-1	
Lithium	**0.0058J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 17:01	7439-93-2	
Molybdenum	**0.0014J**	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 17:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 17:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 09:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**214**	mg/L	25.0	25.0	1		02/28/24 13:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**154**	mg/L	5.0	5.0	1		02/29/24 18:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:01		
Alkalinity, Total as CaCO3	**154**	mg/L	5.0	5.0	1		02/29/24 18:01		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.5**	mg/L	1.0	0.60	1		02/24/24 19:02	16887-00-6	
Fluoride	**0.099J**	mg/L	0.10	0.050	1		02/24/24 19:02	16984-48-8	
Sulfate	**8.3**	mg/L	1.0	0.50	1		02/24/24 19:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-AP2-EB-1 **Lab ID: 92715028006** Collected: 02/21/24 15:10 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 12:04	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 12:04	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 12:04	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 12:04	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 17:26	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 17:26	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 17:26	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 17:26	7440-41-7	
Boron	**0.061**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 15:27	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 17:26	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 17:26	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 17:26	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 17:26	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 17:26	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 17:26	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 17:26	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 17:26	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 09:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**74.0**	mg/L	25.0	25.0	1		02/28/24 13:52		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:18		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:18		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/29/24 18:18		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/24/24 14:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/24/24 14:17	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/24/24 14:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-AP2-FB-1 **Lab ID: 92715028007** Collected: 02/21/24 15:00 Received: 02/22/24 09:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/29/24 13:30	03/04/24 12:07	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/29/24 13:30	03/04/24 12:07	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/29/24 13:30	03/04/24 12:07	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/29/24 13:30	03/04/24 12:07	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/04/24 17:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/04/24 17:30	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/04/24 17:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/04/24 17:30	7440-41-7	
Boron	**0.035J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/04/24 17:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/04/24 17:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/04/24 17:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/04/24 17:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/04/24 17:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/04/24 17:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/04/24 17:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/04/24 17:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/04/24 17:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 09:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**76.0**	mg/L	25.0	25.0	1		02/28/24 13:53		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:22		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/29/24 18:22		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/29/24 18:22		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/24/24 14:31	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/24/24 14:31	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/24/24 14:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-YGWC-26S **Lab ID: 92715028008** Collected: 02/22/24 10:15 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.80**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 18:09	7440-09-7	
Sodium	**18.2**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 18:09	7440-23-5	
Calcium	**11.0**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 18:09	7440-70-2	
Magnesium	**15.7**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 18:09	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 15:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 15:44	7440-38-2	
Barium	**0.025**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 15:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 15:44	7440-41-7	
Boron	**0.78**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 15:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 15:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 15:44	7440-47-3	
Cobalt	**0.0012J**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 15:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 15:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 15:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 15:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 15:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 15:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 09:12	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.3**	mg/L	5.0	5.0	1		03/02/24 19:42		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/02/24 19:42		
Alkalinity, Total as CaCO3	**15.3**	mg/L	5.0	5.0	1		03/02/24 19:42		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**188**	mg/L	25.0	25.0	1		02/27/24 11:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**14.9**	mg/L	1.0	0.60	1		02/28/24 00:26	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/28/24 00:26	16984-48-8	
Sulfate	**89.3**	mg/L	1.0	0.50	1		02/28/24 00:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-YGWC-26I **Lab ID: 92715028009** Collected: 02/22/24 12:00 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.5**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 18:12	7440-09-7	
Sodium	**23.8**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 18:12	7440-23-5	
Calcium	**16.7**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 18:12	7440-70-2	
Magnesium	**12.0**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 18:12	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 15:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 15:48	7440-38-2	
Barium	**0.057**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 15:48	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 15:48	7440-41-7	
Boron	**0.77**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 15:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 15:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 15:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 15:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 15:48	7439-92-1	
Lithium	**0.0078J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 15:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 15:48	7439-98-7	
Selenium	**0.0041J**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 15:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 15:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 09:15	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**31.3**	mg/L	5.0	5.0	1		03/02/24 19:57		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/02/24 19:57		
Alkalinity, Total as CaCO3	**31.3**	mg/L	5.0	5.0	1		03/02/24 19:57		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**215**	mg/L	25.0	25.0	1		02/27/24 11:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**16.0**	mg/L	1.0	0.60	1		02/28/24 00:40	16887-00-6	
Fluoride	**0.057J**	mg/L	0.10	0.050	1		02/28/24 00:40	16984-48-8	
Sulfate	**80.7**	mg/L	1.0	0.50	1		02/28/24 00:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92715028

Sample: YAT-YGWC-29IB **Lab ID: 92715028010** Collected: 02/22/24 14:10 Received: 02/23/24 09:18 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.7**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 18:15	7440-09-7	
Sodium	**15.8**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 18:15	7440-23-5	
Calcium	**11.5**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 18:15	7440-70-2	
Magnesium	**11.6**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 18:15	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 15:51	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 15:51	7440-38-2	
Barium	**0.081**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 15:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 15:51	7440-41-7	
Boron	**1.1**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 15:51	7440-42-8	
Cadmium	**0.00012J**	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 15:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 15:51	7440-47-3	
Cobalt	**0.0071**	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 15:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 15:51	7439-92-1	
Lithium	**0.0051J**	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 15:51	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 15:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 15:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 15:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/04/24 17:15	03/05/24 09:17	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**68.1**	mg/L	5.0	5.0	1		03/02/24 20:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/02/24 20:03		
Alkalinity, Total as CaCO3	**68.1**	mg/L	5.0	5.0	1		03/02/24 20:03		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**146**	mg/L	25.0	25.0	1		02/27/24 11:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.5**	mg/L	1.0	0.60	1		02/28/24 00:54	16887-00-6	
Fluoride	**0.075J**	mg/L	0.10	0.050	1		02/28/24 00:54	16984-48-8	
Sulfate	**26.9**	mg/L	1.0	0.50	1		02/28/24 00:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835845
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

METHOD BLANK: 4318130 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 09:50	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 09:50	
Potassium	mg/L	ND	0.50	0.15	03/04/24 09:50	
Sodium	mg/L	ND	1.0	0.58	03/04/24 09:50	

LABORATORY CONTROL SAMPLE: 4318131

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	104	80-120	
Magnesium	mg/L	1	1.1	108	80-120	
Potassium	mg/L	1	1.1	106	80-120	
Sodium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318132 4318133

Parameter	Units	92715026002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	31.6	1	1	31.9	32.0	33	40	75-125	0	20	M1
Magnesium	mg/L	27.1	1	1	27.7	28.0	60	89	75-125	1	20	M1
Potassium	mg/L	3.9	1	1	4.9	5.0	95	104	75-125	2	20	
Sodium	mg/L	16.9	1	1	17.7	18.0	87	111	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835873
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4318271 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 17:06	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 17:06	
Potassium	mg/L	ND	0.50	0.15	03/04/24 17:06	
Sodium	mg/L	ND	1.0	0.58	03/04/24 17:06	

LABORATORY CONTROL SAMPLE: 4318272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.2	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318273 4318274

Parameter	Units	92715157005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	0.78J	1	1	1.8	1.8	100	102	75-125	1	20	
Magnesium	mg/L	0.34	1	1	1.4	1.4	106	107	75-125	1	20	
Potassium	mg/L	0.30J	1	1	1.3	1.3	99	103	75-125	3	20	
Sodium	mg/L	1.0	1	1	2.0	2.0	97	101	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835669
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

METHOD BLANK: 4317353 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/04/24 16:27	
Arsenic	mg/L	ND	0.0050	0.00084	03/04/24 16:27	
Barium	mg/L	ND	0.0050	0.00047	03/04/24 16:27	
Beryllium	mg/L	ND	0.00050	0.000094	03/04/24 16:27	
Boron	mg/L	ND	0.040	0.012	03/04/24 16:27	
Cadmium	mg/L	ND	0.00050	0.00010	03/04/24 16:27	
Chromium	mg/L	ND	0.0050	0.0019	03/04/24 16:27	
Cobalt	mg/L	ND	0.0050	0.00032	03/04/24 16:27	
Lead	mg/L	ND	0.0010	0.00016	03/04/24 16:27	
Lithium	mg/L	ND	0.030	0.0016	03/04/24 16:27	
Molybdenum	mg/L	ND	0.010	0.00062	03/04/24 16:27	
Selenium	mg/L	ND	0.0050	0.00096	03/04/24 16:27	
Thallium	mg/L	ND	0.0010	0.00038	03/04/24 16:27	

LABORATORY CONTROL SAMPLE: 4317354

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	0.10	102	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	107	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	104	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.099	99	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317355 4317356

Parameter	Units	92715028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	101	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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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317355 4317356

Parameter	Units	92715028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.047	0.1	0.1	0.15	0.15	104	102	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	1	20	
Boron	mg/L	0.91	1	1	1.9	1.8	96	94	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Cobalt	mg/L	0.0016J	0.1	0.1	0.10	0.099	99	98	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.094	0.096	94	96	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835671
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4317361 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/05/24 14:25	
Arsenic	mg/L	ND	0.0050	0.00084	03/05/24 14:25	
Barium	mg/L	ND	0.0050	0.00047	03/05/24 14:25	
Beryllium	mg/L	ND	0.00050	0.000094	03/05/24 14:25	
Boron	mg/L	ND	0.040	0.012	03/05/24 14:25	
Cadmium	mg/L	ND	0.00050	0.00010	03/05/24 14:25	
Chromium	mg/L	ND	0.0050	0.0019	03/05/24 14:25	
Cobalt	mg/L	ND	0.0050	0.00032	03/05/24 14:25	
Lead	mg/L	ND	0.0010	0.00016	03/05/24 14:25	
Lithium	mg/L	ND	0.030	0.0016	03/05/24 14:25	
Molybdenum	mg/L	ND	0.010	0.00062	03/05/24 14:25	
Selenium	mg/L	ND	0.0050	0.00096	03/05/24 14:25	
Thallium	mg/L	ND	0.0010	0.00038	03/05/24 14:25	

LABORATORY CONTROL SAMPLE: 4317362

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	0.10	101	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

Parameter	Units	92715031012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20	
Arsenic	mg/L	0.0011J	0.1	0.1	0.11	0.11	104	107	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

Parameter	Units	92715031012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	101	104	75-125	2	20	
Beryllium	mg/L	0.00013J	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Boron	mg/L	6.7	1	1	7.6	7.6	89	87	75-125	0	20	
Cadmium	mg/L	0.00022J	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	105	107	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.014J	0.1	0.1	0.11	0.11	92	94	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	104	75-125	4	20	
Selenium	mg/L	0.053	0.1	0.1	0.16	0.16	102	105	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 836578
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007, 92715028008, 92715028009, 92715028010

METHOD BLANK: 4321222 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007, 92715028008, 92715028009, 92715028010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/05/24 08:32	

LABORATORY CONTROL SAMPLE: 4321223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0021	84	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4321224 4321225

Parameter	Units	92715028001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0021	0.0021	83	83	75-125	1	20	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835492
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004

METHOD BLANK: 4316131 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/28/24 11:55	

LABORATORY CONTROL SAMPLE: 4316132

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	395	99	80-120	

SAMPLE DUPLICATE: 4316133

Parameter	Units	92714999004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1370	1380	0	10	

SAMPLE DUPLICATE: 4316134

Parameter	Units	92715026002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	309	323	4	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835493 | 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: 92715028005, 92715028006, 92715028007

METHOD BLANK: 4316139 Matrix: Water
Associated Lab Samples: 92715028005, 92715028006, 92715028007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/28/24 13:51	

LABORATORY CONTROL SAMPLE: 4316140

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	400	100	80-120	

SAMPLE DUPLICATE: 4316141

Parameter	Units	92715028005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	198	8	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835303
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028001, 92715028002

METHOD BLANK: 4315450 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/29/24 13:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/29/24 13:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/29/24 13:34	

LABORATORY CONTROL SAMPLE: 4315451

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.6	101	80-120	

LABORATORY CONTROL SAMPLE: 4315452

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.5	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315453 4315454

Parameter	Units	92714999007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	49.9	50.3	99	100	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315455 4315456

Parameter	Units	92714999008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	49.9	50.6	100	101	80-120	1	25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835849
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

METHOD BLANK: 4318153 Matrix: Water
Associated Lab Samples: 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/29/24 17:02	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/29/24 17:02	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/29/24 17:02	

LABORATORY CONTROL SAMPLE: 4318154

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	49.1	98	80-120	

LABORATORY CONTROL SAMPLE: 4318155

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.1	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318156 4318157

Parameter	Units	92715028003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	178	50	50	226	226	95	96	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318158 4318159

Parameter	Units	92715028004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	152	50	50	199	198	95	92	80-120	1	25	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 836394
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4320604 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/02/24 17:40	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/02/24 17:40	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/02/24 17:40	

LABORATORY CONTROL SAMPLE: 4320605

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

LABORATORY CONTROL SAMPLE: 4320606

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	53.4	107	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4320607 4320608

Parameter	Units	92716156001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	47.5	50	50	99.0	101	103	106	80-120	2	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4320609 4320610

Parameter	Units	92716156002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	36.0	50	50	86.4	86.8	101	102	80-120	0	25	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835155 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4314552 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/27/24 11:02	

LABORATORY CONTROL SAMPLE: 4314553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	101	90-110	

SAMPLE DUPLICATE: 4314554

Parameter	Units	92715255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	160	164	2	25	

SAMPLE DUPLICATE: 4314555

Parameter	Units	92715247002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	802	770	4	25	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 834818
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

METHOD BLANK: 4313203 Matrix: Water
Associated Lab Samples: 92715028001, 92715028002, 92715028003, 92715028004, 92715028005, 92715028006, 92715028007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/24/24 13:22	
Fluoride	mg/L	ND	0.10	0.050	02/24/24 13:22	
Sulfate	mg/L	ND	1.0	0.50	02/24/24 13:22	

LABORATORY CONTROL SAMPLE: 4313204

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.6	105	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4313205 4313206

Parameter	Units	92715026001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.9	50	50	52.6	54.6	99	103	90-110	4	10	
Fluoride	mg/L	0.054J	2.5	2.5	2.5	2.6	100	102	90-110	3	10	
Sulfate	mg/L	98.9	50	50	135	137	72	76	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4313207 4313208

Parameter	Units	92715028004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.4	50	50	61.2	61.7	102	103	90-110	1	10	
Fluoride	mg/L	0.096J	2.5	2.5	2.5	2.5	95	96	90-110	1	10	
Sulfate	mg/L	8.5	50	50	59.7	60.2	102	103	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92715028

QC Batch: 835357
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92715028008, 92715028009, 92715028010

METHOD BLANK: 4315767 Matrix: Water
Associated Lab Samples: 92715028008, 92715028009, 92715028010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/27/24 20:49	
Fluoride	mg/L	ND	0.10	0.050	02/27/24 20:49	
Sulfate	mg/L	ND	1.0	0.50	02/27/24 20:49	

LABORATORY CONTROL SAMPLE: 4315768

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.3	101	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315769 4315770

Parameter	Units	92715521002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	38.2	50	50	88.2	88.6	100	101	90-110	0	10	
Fluoride	mg/L	0.72	2.5	2.5	3.2	3.2	98	97	90-110	1	10	
Sulfate	mg/L	207	50	50	255	256	98	98	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4315771 4315772

Parameter	Units	92715157010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.1	50	50	51.9	52.7	102	103	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.3	2.4	93	95	90-110	2	10	
Sulfate	mg/L	1.7	50	50	52.7	53.6	102	104	90-110	2	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-2
Pace Project No.: 92715028

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2
Pace Project No.: 92715028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715028001	**YAT-YGWC-27S**	EPA 3010A	835845	EPA 6010D	835914
92715028002	**YAT-YGWC-27I**	EPA 3010A	835845	EPA 6010D	835914
92715028003	**YAT-YGWC-28S**	EPA 3010A	835845	EPA 6010D	835914
92715028004	**YAT-YGWC-28I**	EPA 3010A	835845	EPA 6010D	835914
92715028005	**YAT-AP2-FD-1**	EPA 3010A	835845	EPA 6010D	835914
92715028006	**YAT-AP2-EB-1**	EPA 3010A	835845	EPA 6010D	835914
92715028007	**YAT-AP2-FB-1**	EPA 3010A	835845	EPA 6010D	835914
92715028008	**YAT-YGWC-26S**	EPA 3010A	835873	EPA 6010D	835959
92715028009	**YAT-YGWC-26I**	EPA 3010A	835873	EPA 6010D	835959
92715028010	**YAT-YGWC-29IB**	EPA 3010A	835873	EPA 6010D	835959
92715028001	**YAT-YGWC-27S**	EPA 3005A	835669	EPA 6020B	835900
92715028002	**YAT-YGWC-27I**	EPA 3005A	835669	EPA 6020B	835900
92715028003	**YAT-YGWC-28S**	EPA 3005A	835669	EPA 6020B	835900
92715028004	**YAT-YGWC-28I**	EPA 3005A	835669	EPA 6020B	835900
92715028005	**YAT-AP2-FD-1**	EPA 3005A	835669	EPA 6020B	835900
92715028006	**YAT-AP2-EB-1**	EPA 3005A	835669	EPA 6020B	835900
92715028007	**YAT-AP2-FB-1**	EPA 3005A	835669	EPA 6020B	835900
92715028008	**YAT-YGWC-26S**	EPA 3005A	835671	EPA 6020B	835903
92715028009	**YAT-YGWC-26I**	EPA 3005A	835671	EPA 6020B	835903
92715028010	**YAT-YGWC-29IB**	EPA 3005A	835671	EPA 6020B	835903
92715028001	**YAT-YGWC-27S**	EPA 7470A	836578	EPA 7470A	836678
92715028002	**YAT-YGWC-27I**	EPA 7470A	836578	EPA 7470A	836678
92715028003	**YAT-YGWC-28S**	EPA 7470A	836578	EPA 7470A	836678
92715028004	**YAT-YGWC-28I**	EPA 7470A	836578	EPA 7470A	836678
92715028005	**YAT-AP2-FD-1**	EPA 7470A	836578	EPA 7470A	836678
92715028006	**YAT-AP2-EB-1**	EPA 7470A	836578	EPA 7470A	836678
92715028007	**YAT-AP2-FB-1**	EPA 7470A	836578	EPA 7470A	836678
92715028008	**YAT-YGWC-26S**	EPA 7470A	836578	EPA 7470A	836678
92715028009	**YAT-YGWC-26I**	EPA 7470A	836578	EPA 7470A	836678
92715028010	**YAT-YGWC-29IB**	EPA 7470A	836578	EPA 7470A	836678
92715028001	**YAT-YGWC-27S**	SM 2540C-2015	835492		
92715028002	**YAT-YGWC-27I**	SM 2540C-2015	835492		
92715028003	**YAT-YGWC-28S**	SM 2540C-2015	835492		
92715028004	**YAT-YGWC-28I**	SM 2540C-2015	835492		
92715028005	**YAT-AP2-FD-1**	SM 2540C-2015	835493		
92715028006	**YAT-AP2-EB-1**	SM 2540C-2015	835493		
92715028007	**YAT-AP2-FB-1**	SM 2540C-2015	835493		
92715028001	**YAT-YGWC-27S**	SM 2320B-2011	835303		
92715028002	**YAT-YGWC-27I**	SM 2320B-2011	835303		
92715028003	**YAT-YGWC-28S**	SM 2320B-2011	835849		
92715028004	**YAT-YGWC-28I**	SM 2320B-2011	835849		
92715028005	**YAT-AP2-FD-1**	SM 2320B-2011	835849		
92715028006	**YAT-AP2-EB-1**	SM 2320B-2011	835849		
92715028007	**YAT-AP2-FB-1**	SM 2320B-2011	835849		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2
Pace Project No.: 92715028

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715028008	**YAT-YGWC-26S**	SM 2320B-2011	836394		
92715028009	**YAT-YGWC-26I**	SM 2320B-2011	836394		
92715028010	**YAT-YGWC-29IB**	SM 2320B-2011	836394		
92715028008	**YAT-YGWC-26S**	SM 2540C-2015	835155		
92715028009	**YAT-YGWC-26I**	SM 2540C-2015	835155		
92715028010	**YAT-YGWC-29IB**	SM 2540C-2015	835155		
92715028001	**YAT-YGWC-27S**	EPA 300.0 Rev 2.1 1993	834818		
92715028002	**YAT-YGWC-27I**	EPA 300.0 Rev 2.1 1993	834818		
92715028003	**YAT-YGWC-28S**	EPA 300.0 Rev 2.1 1993	834818		
92715028004	**YAT-YGWC-28I**	EPA 300.0 Rev 2.1 1993	834818		
92715028005	**YAT-AP2-FD-1**	EPA 300.0 Rev 2.1 1993	834818		
92715028006	**YAT-AP2-EB-1**	EPA 300.0 Rev 2.1 1993	834818		
92715028007	**YAT-AP2-FB-1**	EPA 300.0 Rev 2.1 1993	834818		
92715028008	**YAT-YGWC-26S**	EPA 300.0 Rev 2.1 1993	835357		
92715028009	**YAT-YGWC-26I**	EPA 300.0 Rev 2.1 1993	835357		
92715028010	**YAT-YGWC-29IB**	EPA 300.0 Rev 2.1 1993	835357		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Lou Reed

Project #: WO# : 92715028

92715028

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☑ Pace ☐ Other:____

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/10/24 JC

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 730

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 **Correction Factor:** Add/Subtract (°C) +0.1

Temp should be above freezing to 6°C

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

Cooler Temp Corrected (°C): 2.3

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

**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#: 92715028

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

927|5028

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #:	Task No. YAT-CCR-ASSMT-202451
Project Name:	Georgia Power Yates
Site Collection Info/Facility ID (as applicable):	YAT AP-2
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other_____
Regulatory Program (DW, RCRA, etc.) as applicable:	
Rush (Pre-approval required):	[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:	Standard TAT

Contact/Report To:	Lauren Hartley
Phone #:	470-620-6176
E-Mail:	laucoker@southernco.com
Cc E-Mail:	Arcadis contacts
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPCR2474-0002
Quote #:	
County / State origin of sample(s):	Georgia
DW PWSID # or WW Permit # as applicable:	
Field Filtered (if applicable):	[ ] Yes [ ] No
Analysis:	

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-26S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-26I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-27S	WG	G	2/21/24	0940				6		X	X	X	X	X	See Remarks 001	
YAT-YGWC-27I	WG	G	2/21/24	1105				6		X	X	X	X	X	See Remarks 002	
YAT-YGWC-28S	WG	G	2/21/24	1445				6		X	X	X	X	X	See Remarks 003	
YAT-YGWC-28I	WG	G	2/21/24	1635				6		X	X	X	X	X	See Remarks 004	
YAT-AP2-FD-1	WG	G	2/21/24	—				6		X	X	X	X	X	See Remarks 005	
YAT-AP2-EB-1	WG	G	2/21/24	1510				6		X	X	X	X	X	See Remarks 006	
YAT-AP2-FB-1	WG	G	2/21/24	1500				6		X	X	X	X	X	See Remarks 007	
YAT-YGWC-29IB	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis)

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time
	2/22/24 0810		2/22/24 0810
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time
	2/22/24 0903		2/22/24 1540
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time
	2/22/24 1545		2/22/24 1545
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 1 of 1

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: **WO# : 92715028**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Fed Ex ☐ UPS ☐ USPS ☑ Pace ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/23/24 CH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

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

Cooler Temp: 1.3 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.2

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the 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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: W				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*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#: 92715028**

PM: BV **Due Date: 03/07/24**

CLIENT: 92-GP-Yates

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92715826

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT 202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-2	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-26S	WG	G	2/22/24	1015				6		X	X	X	X	X	See Remarks 008	
YAT-YGWC-26I	WG	G	2/22/24	1200				6		X	X	X	X	X	See Remarks 009	
YAT-YGWC-27S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-27I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-28S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-28I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AP2-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AP2-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AP2-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-29IB	WG	G	2/22/24	1410				6		X	X	X	X	X	See Remarks 010	

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct.Num / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) David Prouty

Additional Instructions from Pace®

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 2/23/24 0800	Received by/Company: (Signature) ARCADIS	Date/Time: 2/23/24 0800	Tracking Number:
Relinquished by/Company: (Signature) ARCADIS	Date/Time: 2/23/24 0918	Received by/Company: (Signature) Pace	Date/Time: 2/23/24 0918	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/23/24 1307	Received by/Company: (Signature)	Date/Time: 2/23/24 1307	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 21, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-2- RADs
Pace Project No.: 92715049

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 22, 2024 and February 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
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

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(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92715049001	**YAT-YGWC-27S**	Water	02/21/24 09:40	02/22/24 09:03
92715049002	**YAT-YGWC-27I**	Water	02/21/24 11:05	02/22/24 09:03
92715049003	**YAT-YGWC-28S**	Water	02/21/24 14:45	02/22/24 09:03
92715049004	**YAT-YGWC-28I**	Water	02/21/24 16:35	02/22/24 09:03
92715049005	**YAT-AP2-FD-1**	Water	02/21/24 00:00	02/22/24 09:03
92715049006	**YAT-AP2-EB-1**	Water	02/21/24 15:10	02/22/24 09:03
92715049007	**YAT-AP2-FB-1**	Water	02/21/24 15:00	02/22/24 09:03
92715049008	**YAT-YGWC-26S**	Water	02/22/24 10:15	02/23/24 09:18
92715049009	**YAT-YGWC-26I**	Water	02/22/24 12:00	02/23/24 09:18
92715049010	**YAT-YGWC-29IB**	Water	02/22/24 14:10	02/23/24 09:18

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SAMPLE ANALYTE COUNT

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92715049001	**YAT-YGWC-27S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715049002	**YAT-YGWC-27I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715049003	**YAT-YGWC-28S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715049004	**YAT-YGWC-28I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715049005	**YAT-AP2-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715049006	**YAT-AP2-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715049007	**YAT-AP2-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715049008	**YAT-YGWC-26S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715049009	**YAT-YGWC-26I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92715049010	**YAT-YGWC-29IB**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715049001	**YAT-YGWC-27S**					
EPA 9315	Radium-226	0.224U ± 0.173 (0.307) C:89% T:NA	pCi/L		03/15/24 11:42	
EPA 9320	Radium-228	0.445U ± 0.415 (0.842) C:75% T:79%	pCi/L		03/11/24 16:43	
Total Radium Calculation	Total Radium	0.669U ± 0.588 (1.15)	pCi/L		03/18/24 11:21	
92715049002	**YAT-YGWC-27I**					
EPA 9315	Radium-226	2.54 ± 0.573 (0.307) C:94% T:NA	pCi/L		03/15/24 11:43	
EPA 9320	Radium-228	0.716 ± 0.400 (0.699) C:74% T:83%	pCi/L		03/11/24 16:43	
Total Radium Calculation	Total Radium	3.26 ± 0.973 (1.01)	pCi/L		03/18/24 11:21	
92715049003	**YAT-YGWC-28S**					
EPA 9315	Radium-226	0.236U ± 0.169 (0.296) C:95% T:NA	pCi/L		03/15/24 11:43	
EPA 9320	Radium-228	0.545U ± 0.368 (0.690) C:73% T:88%	pCi/L		03/11/24 16:43	
Total Radium Calculation	Total Radium	0.781U ± 0.537 (0.986)	pCi/L		03/18/24 11:21	
92715049004	**YAT-YGWC-28I**					
EPA 9315	Radium-226	0.103U ± 0.131 (0.276) C:97% T:NA	pCi/L		03/15/24 13:38	
EPA 9320	Radium-228	0.344U ± 0.366 (0.758) C:76% T:82%	pCi/L		03/11/24 16:43	
Total Radium Calculation	Total Radium	0.447U ± 0.497 (1.03)	pCi/L		03/18/24 11:21	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715049005	**YAT-AP2-FD-1**					
EPA 9315	Radium-226	0.137U ± 0.163 (0.343) C:95% T:NA	pCi/L		03/15/24 11:43	
EPA 9320	Radium-228	0.928U ± 0.561 (1.06) C:75% T:81%	pCi/L		03/11/24 16:43	
Total Radium Calculation	Total Radium	1.07U ± 0.724 (1.40)	pCi/L		03/18/24 11:21	
92715049006	**YAT-AP2-EB-1**					
EPA 9315	Radium-226	0.105U ± 0.163 (0.362) C:76% T:NA	pCi/L		03/15/24 11:44	
EPA 9320	Radium-228	0.337U ± 0.519 (1.12) C:68% T:77%	pCi/L		03/11/24 16:43	
Total Radium Calculation	Total Radium	0.442U ± 0.682 (1.48)	pCi/L		03/18/24 11:21	
92715049007	**YAT-AP2-FB-1**					
EPA 9315	Radium-226	0.0311U ± 0.0992 (0.247) C:93% T:NA	pCi/L		03/15/24 11:59	
EPA 9320	Radium-228	0.539U ± 0.526 (1.09) C:71% T:85%	pCi/L		03/11/24 16:43	
Total Radium Calculation	Total Radium	0.570U ± 0.625 (1.34)	pCi/L		03/18/24 11:21	
92715049008	**YAT-YGWC-26S**					
EPA 9315	Radium-226	0.264U ± 0.183 (0.312) C:87% T:NA	pCi/L		03/15/24 11:44	
EPA 9320	Radium-228	0.0394U ± 0.403 (0.922) C:75% T:86%	pCi/L		03/12/24 12:55	
Total Radium Calculation	Total Radium	0.303U ± 0.586 (1.23)	pCi/L		03/18/24 11:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92715049009	**YAT-YGWC-26I**					
EPA 9315	Radium-226	0.196U ± 0.158 (0.283) C:87% T:NA	pCi/L		03/15/24 11:44	
EPA 9320	Radium-228	0.549U ± 0.438 (0.877) C:72% T:91%	pCi/L		03/12/24 12:55	
Total Radium Calculation	Total Radium	0.745U ± 0.596 (1.16)	pCi/L		03/18/24 11:21	
92715049010	**YAT-YGWC-29IB**					
EPA 9315	Radium-226	0.253U ± 0.174 (0.302) C:89% T:NA	pCi/L		03/15/24 11:44	
EPA 9320	Radium-228	0.618U ± 0.471 (0.934) C:73% T:87%	pCi/L		03/12/24 12:55	
Total Radium Calculation	Total Radium	0.871U ± 0.645 (1.24)	pCi/L		03/18/24 11:21	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-YGWC-27S **Lab ID: 92715049001** Collected: 02/21/24 09:40 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.224U ± 0.173 (0.307) C:89% T:NA**	pCi/L	03/15/24 11:42	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.445U ± 0.415 (0.842) C:75% T:79%**	pCi/L	03/11/24 16:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.669U ± 0.588 (1.15)**	pCi/L	03/18/24 11:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-YGWC-27I **Lab ID: 92715049002** Collected: 02/21/24 11:05 Received: 02/22/24 09:03 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	**2.54 ± 0.573 (0.307) C:94% T:NA**	pCi/L	03/15/24 11:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.716 ± 0.400 (0.699) C:74% T:83%**	pCi/L	03/11/24 16:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.26 ± 0.973 (1.01)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-YGWC-28S **Lab ID: 92715049003** Collected: 02/21/24 14:45 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.236U ± 0.169 (0.296) C:95% T:NA**	pCi/L	03/15/24 11:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.545U ± 0.368 (0.690) C:73% T:88%**	pCi/L	03/11/24 16:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.781U ± 0.537 (0.986)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-YGWC-28I **Lab ID: 92715049004** Collected: 02/21/24 16:35 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.103U ± 0.131 (0.276) C:97% T:NA**	pCi/L	03/15/24 13:38	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.344U ± 0.366 (0.758) C:76% T:82%**	pCi/L	03/11/24 16:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.447U ± 0.497 (1.03)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-AP2-FD-1 **Lab ID: 92715049005** Collected: 02/21/24 00:00 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.137U ± 0.163 (0.343) C:95% T:NA**	pCi/L	03/15/24 11:43	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.928U ± 0.561 (1.06) C:75% T:81%**	pCi/L	03/11/24 16:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.07U ± 0.724 (1.40)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-AP2-EB-1 **Lab ID: 92715049006** Collected: 02/21/24 15:10 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.105U ± 0.163 (0.362) C:76% T:NA**	pCi/L	03/15/24 11:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.337U ± 0.519 (1.12) C:68% T:77%**	pCi/L	03/11/24 16:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.442U ± 0.682 (1.48)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-AP2-FB-1 **Lab ID: 92715049007** Collected: 02/21/24 15:00 Received: 02/22/24 09:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0311U ± 0.0992 (0.247) C:93% T:NA**	pCi/L	03/15/24 11:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.539U ± 0.526 (1.09) C:71% T:85%**	pCi/L	03/11/24 16:43	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.570U ± 0.625 (1.34)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-YGWC-26S **Lab ID: 92715049008** Collected: 02/22/24 10:15 Received: 02/23/24 09:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.264U ± 0.183 (0.312) C:87% T:NA**	pCi/L	03/15/24 11:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0394U ± 0.403 (0.922) C:75% T:86%**	pCi/L	03/12/24 12:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.303U ± 0.586 (1.23)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-YGWC-26I **Lab ID: 92715049009** Collected: 02/22/24 12:00 Received: 02/23/24 09:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.196U ± 0.158 (0.283) C:87% T:NA**	pCi/L	03/15/24 11:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.549U ± 0.438 (0.877) C:72% T:91%**	pCi/L	03/12/24 12:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.745U ± 0.596 (1.16)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Sample: YAT-YGWC-29IB **Lab ID: 92715049010** Collected: 02/22/24 14:10 Received: 02/23/24 09:18 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.253U ± 0.174 (0.302) C:89% T:NA**	pCi/L	03/15/24 11:44	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.618U ± 0.471 (0.934) C:73% T:87%**	pCi/L	03/12/24 12:55	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.871U ± 0.645 (1.24)**	pCi/L	03/18/24 11:21	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

QC Batch: 651836
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715049008, 92715049009, 92715049010

METHOD BLANK: 3175611 Matrix: Water
Associated Lab Samples: 92715049008, 92715049009, 92715049010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.173 ± 0.373 (0.826) C:73% T:85%	pCi/L	03/12/24 12:53	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

QC Batch: 651515
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715049001, 92715049002, 92715049003, 92715049004, 92715049005, 92715049006, 92715049007, 92715049008, 92715049009, 92715049010

METHOD BLANK: 3174171 Matrix: Water
Associated Lab Samples: 92715049001, 92715049002, 92715049003, 92715049004, 92715049005, 92715049006, 92715049007, 92715049008, 92715049009, 92715049010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0485 ± 0.125 (0.300) C:96% T:NA	pCi/L	03/15/24 11:42	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92715049

QC Batch: 651359 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92715049001, 92715049002, 92715049003, 92715049004, 92715049005, 92715049006, 92715049007

METHOD BLANK: 3173423 Matrix: Water
Associated Lab Samples: 92715049001, 92715049002, 92715049003, 92715049004, 92715049005, 92715049006, 92715049007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.310 ± 0.405 (0.865) C:73% T:92%	pCi/L	03/11/24 16:47	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-2- RADs
Pace Project No.: 92715049

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2- RADs
Pace Project No.: 92715049

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92715049001	**YAT-YGWC-27S**	EPA 9315	651515		
92715049002	**YAT-YGWC-27I**	EPA 9315	651515		
92715049003	**YAT-YGWC-28S**	EPA 9315	651515		
92715049004	**YAT-YGWC-28I**	EPA 9315	651515		
92715049005	**YAT-AP2-FD-1**	EPA 9315	651515		
92715049006	**YAT-AP2-EB-1**	EPA 9315	651515		
92715049007	**YAT-AP2-FB-1**	EPA 9315	651515		
92715049008	**YAT-YGWC-26S**	EPA 9315	651515		
92715049009	**YAT-YGWC-26I**	EPA 9315	651515		
92715049010	**YAT-YGWC-29IB**	EPA 9315	651515		
92715049001	**YAT-YGWC-27S**	EPA 9320	651359		
92715049002	**YAT-YGWC-27I**	EPA 9320	651359		
92715049003	**YAT-YGWC-28S**	EPA 9320	651359		
92715049004	**YAT-YGWC-28I**	EPA 9320	651359		
92715049005	**YAT-AP2-FD-1**	EPA 9320	651359		
92715049006	**YAT-AP2-EB-1**	EPA 9320	651359		
92715049007	**YAT-AP2-FB-1**	EPA 9320	651359		
92715049008	**YAT-YGWC-26S**	EPA 9320	651836		
92715049009	**YAT-YGWC-26I**	EPA 9320	651836		
92715049010	**YAT-YGWC-29IB**	EPA 9320	651836		
92715049001	**YAT-YGWC-27S**	Total Radium Calculation	655757		
92715049002	**YAT-YGWC-27I**	Total Radium Calculation	655757		
92715049003	**YAT-YGWC-28S**	Total Radium Calculation	655757		
92715049004	**YAT-YGWC-28I**	Total Radium Calculation	655757		
92715049005	**YAT-AP2-FD-1**	Total Radium Calculation	655757		
92715049006	**YAT-AP2-EB-1**	Total Radium Calculation	655757		
92715049007	**YAT-AP2-FB-1**	Total Radium Calculation	655757		
92715049008	**YAT-YGWC-26S**	Total Radium Calculation	655757		
92715049009	**YAT-YGWC-26I**	Total Radium Calculation	655757		
92715049010	**YAT-YGWC-29IB**	Total Radium Calculation	655757		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Cox Road

Project #: WO# : 92715049

92715049

Courier: ☐ Commercial ☐ Fed Ex ☐ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/12/24 JC

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☑ IR Gun ID: 730

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 **Correction Factor:** Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 2.3

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*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#:92715049

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92715045

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6175
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-2		Purchase Order # (if applicable):	GPCR2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

***Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample:
YAT-YGWC-26S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-26I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-27S	WG	G	2/21/24	0940				6		X	X	X	X	X	See Remarks 001	
YAT-YGWC-27I	WG	G	2/21/24	1105				6		X	X	X	X	X	See Remarks 002	
YAT-YGWC-28S	WG	G	2/21/24	1445				6		X	X	X	X	X	See Remarks 003	
YAT-YGWC-28I	WG	G	2/21/24	1635				6		X	X	X	X	X	See Remarks 004	
YAT-AP2-FD-1	WG	G	2/21/24	—				6		X	X	X	X	X	See Remarks 005	
YAT-AP2-EB-1	WG	G	2/21/24	1510				6		X	X	X	X	X	See Remarks 006	
YAT-AP2-FB-1	WG	G	2/21/24	1500				6		X	X	X	X	X	See Remarks 007	
YAT-YGWC-29IB	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis)
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
	2/22/24 0810		2/22/24 0810	
Relinquished by/Company: (Signature)	Date/Time: 2/22/24 0903	Received by/Company: (Signature) Pace	Date/Time: 2/22/24 0903	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature) Pace	Date/Time: 2/22/24 1545	Received by/Company: (Signature)	Date/Time: 2/22/24 1545	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power ✓

Project #: **WO# : 92715049**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 2/23/24 CH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 214

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.3 Correction Factor: Add/Subtract (°C) -0.1

Cooler Temp Corrected (°C): 1.2

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

USDA Regulated Soil (☐ N/A, water sample)
Did samples originate in a quarantine zone within the 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?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)?	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC? -Includes Date/Time/ID/Analysis Matrix: W	☑ Yes	☐ No	☐ N/A	9.
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☑ N/A	

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO#: 92715049**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT AP-2	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EDUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [√] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-26S	WG	G	2/22/24	1015				6		X	X	X	X	X	See Remarks UG	
YAT-YGWC-26I	WG	G	2/22/24	1200				6		X	X	X	X	X	See Remarks UG	
YAT-YGWC-27S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-27I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-28S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-28I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AP2-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AP2-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-AP2-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWC-29IB	WG	G	2/22/24	1410				6		X	X	X	X	X	See Remarks DUP	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 2/23/24 0800	Received by/Company: (Signature) ARCADIS	Date/Time: 2/23/24 0800	Tracking Number:
Relinquished by/Company: (Signature) ARCADIS	Date/Time: 2/23/24 0918	Received by/Company: (Signature) Kyon Williams / Pace	Date/Time: 2/23/24 0918	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Kyon Williams / Pace	Date/Time: 2/22/24 1307	Received by/Company: (Signature)	Date/Time: 2/23/24 1307	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	3/5/2024
Worklist:	77864
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3173423
MB concentration:	0.310
M/B 2 Sigma CSU:	0.405
MB MDC:	0.865
MB Numerical Performance Indicator:	1.50
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77864	LCSD77864
Count Date:	3/11/2024	1/0/1900
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.540	119275490.841
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.822
Target Conc. (pCi/L, g, F):	4.575	14511106.482
Uncertainty (Calculated):	0.224	711044.218
Result (pCi/L, g, F):	4.580	#NUM!
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.069	#NUM!
Numerical Performance Indicator:	0.01	#NUM!
Percent Recovery:	100.11%	#NUM!
Status vs Numerical Indicator:	N/A	#NUM!
Status vs Recovery:	Pass	#NUM!
Upper % Recovery Limits:	135%	#NUM!
Lower % Recovery Limits:	60%	#NUM!

Duplicate Sample Assessment		
Sample I.D.:	LCS77864	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77864	
Sample Result (pCi/L, g, F):	4.580	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.069	
Sample Duplicate Result (pCi/L, g, F):	#NUM!	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	#NUM!	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	#NUM!	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	#NUM!	
Duplicate Status vs Numerical Indicator:	#NUM!	
Duplicate Status vs RPD:	#NUM!	
% RPD Limit:	#NUM!	

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

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

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

Comments:

#NUM!
#NUM!

VAL
3/12/24

3/13/24

RE LCSD - pellet lost

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	3/6/2024
Worklist:	77912
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3175611
MB concentration:	0.173
M/B 2 Sigma CSU:	0.373
MB MDC:	0.826
MB Numerical Performance Indicator:	0.91
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77912	LCSD77912
Count Date:	3/12/2024	3/12/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.530	37.530
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.816
Target Conc. (pCi/L, g, F):	4.596	4.601
Uncertainty (Calculated):	0.225	0.225
Result (pCi/L, g, F):	3.126	3.675
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.801	0.884
Numerical Performance Indicator:	-3.46	-1.99
Percent Recovery:	68.02%	79.86%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS77912	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77912	
Sample Result (pCi/L, g, F):	3.126	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.801	
Sample Duplicate Result (pCi/L, g, F):	3.675	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.884	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.902	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	16.01%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

VAL
3/13/24

VAM 3/15/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/11/2024
Worklist:	77884
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3174171
MB concentration:	0.048
M/B Counting Uncertainty:	0.125
MB MDC:	0.300
MB Numerical Performance Indicator:	0.76
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77884	LCSD77884
Count Date:	3/15/2024	3/15/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.505	0.509
Target Conc. (pCi/L, g, F):	4.955	4.918
Uncertainty (Calculated):	0.233	0.231
Result (pCi/L, g, F):	4.775	4.643
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.580	0.596
Numerical Performance Indicator:	-0.56	-0.84
Percent Recovery:	96.37%	94.40%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS77884	92715057008
Duplicate Sample I.D.	LCSD77884	92715057008DUP
Sample Result (pCi/L, g, F):	4.775	0.164
Sample Result Counting Uncertainty (pCi/L, g, F):	0.580	0.143
Sample Duplicate Result (pCi/L, g, F):	4.643	0.180
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.596	0.162
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.312	-0.152
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.07%	9.74%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

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

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

Comments:

ET 3-18-24

VAM 3/18/24

Upgradient Wells

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92683124 and 92683132

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

Report #51400R
Review Level: Tier II
Project: 30143607.3B

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92683124 and 92683132 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-1I	92683124001 92683132001	Waster	8/15/2023		X	X	X
YAT-YGWA-1D	92683124002 92683132002	Water	8/15/2023		X	X	X
YAT-YGWA-2I	92683124003 92683132003	Water	8/15/2023		X	X	X
YAT-YGWA-3D	92683124004 92683132004	Water	8/15/2023		X	X	X
YAT-YGWA-4I	92683124005 92683132005	Water	8/15/2023		X	X	X
YAT-YGWA-5I	92683124006 92683132006	Water	8/15/2023		X	X	X
YAT-YGWA-5D	92683124007 92683132007	Water	8/15/2023		X	X	X
YAT-YGWA-18S	92683124008 92683132008	Water	8/15/2023		X	X	X
YAT-YGWA-18I	92683124009 92683132009	Water	8/15/2023		X	X	X
YAT-YGWA-14S	92683124010 92683132010	Water	8/15/2023		X	X	X
YAT-YGWA-47	92683124011 92683132011	Water	8/15/2023		X	X	X
YAT-GWA-2	92683124012 92683132012	Water	8/15/2023		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-17S	92683124013 92683132013	Water	8/15/2023		X	X	X
YAT-YGWA-20S	92683124014 92683132014	Water	8/15/2023		X	X	X
YAT-YGWA-21I	92683124015 92683132015	Water	8/15/2023		X	X	X
YAT-YGWA-39	92683124016 92683132016	Water	8/15/2023		X	X	X
YAT-YGWA-40	92683124017 92683132017	Water	8/15/2023		X	X	X
YAT-YGWA-30I	92683124018 92683132018	Water	8/16/2023		X	X	X
YAT-YGWA-3I	92683124019 92683132019	Water	8/16/2023		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.

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) 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.

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

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

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

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

3.1 MS/MSD Analysis

All metal analytes must exhibit a percent recovery within the established acceptance limits of 75% to 125%. The MS/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.

The MS/MSD analysis was performed using sample YAT-YGWA-4I in association with SW-846 6010D. The concentration of calcium in the unspiked sample was greater than four-times the spike concentration, hence, the SW-846 6010D MS/MSD sample results were not evaluated.

The MS/MSD analysis performed using sample YAT-YGWA-2I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D and SW-846 6020B. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 7470A analysis.

4. Field Duplicate Analysis

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

A field duplicate sample was not collected in association with this SDG.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks	X				X
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
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
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 YAT-YGWA-14S and YAT-YGWA-3I in association with anions analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

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

The laboratory duplicate analysis performed using sample YAT-YGWA-14S in association with TDS analysis exhibited an RPD within the control limit.

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

4. Field Duplicate Analysis

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

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: SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/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 (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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 blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

Radium-228 was detected in the method blank at an activity greater than the uncertainty and MDC (batch 611586). The NAD was calculated for each sample. The Radium-228 result in sample YAT-YGWA-21I was qualified as "J" since the NAD was less than 1.96. No qualifiers were assigned to the Radium-228 results in samples YAT-YGWA-14S, YAT-YGWA-47, YAT-GWA-2, YAT-YGWA-17S, YAT-YGWA-20S, YAT-YGWA-39, and YAT-YGWA-40 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_0 = measured concentration of the unspiked sample.

c = spike concentration added.

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

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

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

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.

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 ±3 sigma. Warning limits have been established as ±2 sigma.

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

7. Isotope Identification

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

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

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

- YAT-YGWA-4I – Radium-228
- YAT-YGWA-5I – Radium-226 and total Radium
- YAT-YGWA-2I and YAT-YGWA-47 – Radium-228 and total Radium
- YAT-YGWA-1I, YAT-YGWA-1D, YAT-YGWA-18S, YAT-YGWA-18I, YAT-YGWA-14S, YAT-GWA-2, YAT-YGWA-17S, YAT-YGWA-20S, YAT-YGWA-39, YAT-YGWA-40, and YAT-YGWA-30I – Radium-226, Radium-228, and total Radium

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		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: 

DATE: October 2, 2023

PEER REVIEW: Joseph C. Houser

DATE: October 19, 2023

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:	Standard

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S2
Purchase Order #:	
Project Name:	Plant Yates Pooled Upgradient
Project Number:	

Section C
Invoice Information:

Attention:	Southern Co.
Company Name:	
Address:	
Pace Quote:	N
Pace Project Manager:	~~Nicole D'Oleo~~ Bonne
Pace Profile #:	~~10840~~ 16561 [illegible]

Regulatory Agency
State / Location
Georgia

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App III (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-39	WG	G			–	–		6	2		4							X	X	X	X			
2	YAT-YGWA-40	WG	G			–	–		6	2		4							X	X	X	X			
3	YAT-YGWA-1I	WG	G	8/15/23	1345	–	–		6	2		4							X	X	X	X			001
4	YAT-YGWA-1D	WG	G	8/15/23	1120	–	–		6	2		4							X	X	X	X			002
5	YAT-YGWA-2I	WG	G	8/15/23	1545	–	–		6	2		4							X	X	X	X			003
6	YAT-YGWA-3I	WG	G			–	–		6	2		4							X	X	X	X			
7	YAT-YGWA-3D	WG	G	8/15/23	1710	–	–		6	2		4							X	X	X	X			004
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

Requested Analysis Filtered (Y/N)

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	[illegible] /Arcadis	8/15/23	1805	[illegible] / Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[illegible] /Arcadis	8/16/23	0907	Ryan William / Pace	8/16/23	0907	
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 William / Pace	8/16/23	1115	[illegible]	8/16/23	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: (Arcadis) - David Prouty

SIGNATURE of SAMPLER: (Arcadis) - [signature] DATE Signed: 8/15/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A – Required Client Information:		Section B – Required Project Information:		Section C – Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole Oleen~~ Barnes
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N): —

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals	Cl, F, SO4	TDS (2540C)	RAD 9315/8320	App I (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X			
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G	8/15/23	1225	--	--		6	2		4							X	X	X	X			005
4	YAT-YGWA-5I	WG	G	8/15/23	1020	--	--		6	2		4							X	X	X	X			006
5	YAT-YGWA-5D	WG	G	8/15/23	1113	--	--		6	2		4							X	X	X	X			007
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-18S	WG	G	8/15/23	1455	--	--		6	2		4							X	X	X	X			008
8	YAT-YGWA-18I	WG	G	8/15/23	1540	--	--		6	2		4							X	X	X	X			009
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X			
10	YAT-YGWA-21I	WG	G			--	--		6	2		4							X	X	X	X			
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G	8/15/23	1730	--	--		6	2		4							X	X	X	X			010

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/16/23	0755		8/16/23	0755	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	8/16/23	0901	Ryan Williams / Pace	8/16/23	0907	
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	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Kim Lapsevynski

SIGNATURE of SAMPLER: DATE Signed: 8/16/23

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

CHAIN-OF-CUSTODY / Analytical Request Document

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

Page : 1 Of 1

Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	Standard

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S2
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~~ Ronnie Vang
Pace Profile #:	10840

Regulatory Agency
State / Location
Georgia

Requested Analysis Filtered (Y/N)

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analyses Test Y/N	App III/IV Metals ~~+ Ca, Na, K~~	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-47	WG	G	8/15/23	0943	--	--		6	2		4							X	X	X	X			011
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X			
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X			
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X			
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X			
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X			
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X			
10	YAT-YGWA-21I	WG	G			--	--		6	2		4							X	X	X	X			
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	Mark Chest / Arcadis	8/16/23	0907	Ryan William / Pace	8/16/23	0907	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Ryan William / Pace	8/16/23	1115	[signature]	8/16/23	1115	
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: Mark Chest

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/16/23

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

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Page : 1 Of 1

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	lgucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	Nicole D'Oleo
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Cl, NO3, F	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)
1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X		
2	YAT-GWA-2	WG	G	8/15/23	1020	--	--		6	2		4							X	X	X	X	X	
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X		
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X		
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X		
6	YAT-YGWA-17S	WG	G			--	--		6	2		4							X	X	X	X		
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X		
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X		
9	YAT-YGWA-20S	WG	G			--	--		6	2		4							X	X	X	X		
10	YAT-YGWA-21I	WG	G			--	--		8	2		4							X	X	X	X		
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X		
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X		

92683124

-012

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/16/23	0900		8/16/23	0800	
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V		8/16/23	0907		8/16/23	0907	
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).		8/16/23	1115		8/16/23	1115	

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:	Luke Swanson					
SIGNATURE of SAMPLER:		DATE Signed: 8/15/23				

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Page : 1 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-2023S2	Address:	
Email To:	jaucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole DiCiero~~ Brian Jang
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: Georgia

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals + Sb+As+Ba+Be	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-47	WG	G			--	--		6	2		4							X	X	X	X			
2	YAT-GWA-2	WG	G			--	--		6	2		4							X	X	X	X	X		
3	YAT-YGWA-4I	WG	G			--	--		6	2		4							X	X	X	X			
4	YAT-YGWA-5I	WG	G			--	--		6	2		4							X	X	X	X			
5	YAT-YGWA-5D	WG	G			--	--		6	2		4							X	X	X	X			
6	YAT-YGWA-17S	WG	G	8/15	1450	--	--		6	2		4							X	X	X	X			013
7	YAT-YGWA-18S	WG	G			--	--		6	2		4							X	X	X	X			
8	YAT-YGWA-18I	WG	G			--	--		6	2		4							X	X	X	X			
9	YAT-YGWA-20S	WG	G	8/15	1225	--	--		6	2		4							X	X	X	X			014
10	YAT-YGWA-21I	WG	G	8/15	1035	--	--		6	2		4							X	X	X	X			015
11	YAT-YGWA-30I	WG	G			--	--		6	2		4							X	X	X	X			
12	YAT-YGWA-14S	WG	G			--	--		6	2		4							X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	Arcadis	8/16/23	0907	Ryan Williams/Pace	8/16/23	0907	
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	8/16/23	1115		8/16/23	1115	

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:	Jessica Ware					
SIGNATURE of SAMPLER:		DATE Signed: 8/15/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Page : 2 Of 2

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Attention:	Southern Co.
Address:	Atlanta, GA	Copy To:	Arcadis Contacts	Company Name:	
		Task No:	YAT-CCR-ASSMT-202392	Address:	
Email To:	laucoker@southernco.com	Purchase Order #:		Pace Quote:	
Phone:	470.620.6176 Fax	Project Name:	Plant Yates Pooled Upgradient	Pace Project Manager:	~~Nicole D'Olen~~ Barnes
Requested Due Date:	Standard	Project Number:		Pace Profile #:	10840

Regulatory Agency: —

State / Location: Georgia

Requested Analysis Filtered (Y/N)

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 START DATE	COLLECTED START TIME	COLLECTED END DATE	COLLECTED END TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives: Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	Analysis Test Y/N	App III/IV Metals-See NOTE	Cl, F, SO4	TDS (2540C)	RAD 9315/9320	App I / II (gypsum only)	Residual Chlorine (Y/N)	92683124
1	YAT-YGWA-39	WG	G	8/15	1611	–	–		6	2		4							X	X	X	X			016
2	YAT-YGWA-40	WG	G	8/15	1720	–	–		6	2		4							X	X	X	X			017
3	YAT-YGWA-1I	WG	G			–	–		6	2		4							X	X	X	X			
4	YAT-YGWA-1D	WG	G			–	–		6	2		4							X	X	X	X			
5	YAT-YGWA-2I	WG	G			–	–		6	2		4							X	X	X	X			
6	YAT-YGWA-3I	WG	G			–	–		6	2		4							X	X	X	X			
7	YAT-YGWA-3D	WG	G			–	–		6	2		4							X	X	X	X			
8						–	–																		
9						–	–																		
10						–	–																		
11						–	–																		
12						–	–																		

MATRIX CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Anions Suite 300.0 (Cl, F, Sulfate)	/Arcadis	8/15/23	1805	/Arcadis	8/15/23	1805	
App III Metals: Boron 6020B, Ca 6010D; App IV 6020B: Zn, Ag, Ni, V	/Arcadis	8/16/23	0907	Ryan Williams / Pace	8/16/23	0907	
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	8/16/23	1115		8/16/23	1115	

SAMPLER NAME AND SIGNATURE			TEMP in C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER:	(Arcadis) Jessica Ware					
SIGNATURE of SAMPLER:	(Arcadis)	DATE Signed: 8/15/23				

CHAIN-OF-CUSTODY / Analytical Request Document

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Section A — Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	laucoker@southernco.com
Phone:	470.620.6176 Fax
Requested Due Date:	Standard

Section B — Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-202392
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~~ Bonnie Vang
Pace Profile #:	~~10840~~

Georgia

92683124

SAMPLE ID — One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique

MATRIX / CODE: Drinking Water DW; Water WT; Waste Water WW; Product P; Soil/Solid SL; Oil OL; Wipe WP; Air AR; Other OT; Tissue TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# 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)	Residual Chlorine (Y/N)	
	YAT-YGWA-47	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-GWA-2	WG	G			–	–		6	2		4						X	X	X	X	X		
	YAT-YGWA-4I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-5I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-5D	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-17S	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-18S	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-18I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-20S	WG	G			–	–		6	2		4						X	X	X	X			
10	YAT-YGWA-21I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-30I	WG	G	8/16/23	1220	–	–		6	2		4						X	X	X	X			018
	YAT-YGWA-14S	WG	G			–	–		6	2		4						X	X	X	X			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME
Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	8/17/23	0833	[signature]	8/17/23	0833
App III Metals: Boron 6020B, Ca 6010D; App I/II 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	8/17/23		Ryan William /Pace	8/17/23	0955
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) 7470A: Mercury (Hg)	Ryan William /Pace	8/17/23	1254	[signature]	8-17	1254

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: David Traut

SIGNATURE of SAMPLER: [signature] DATE Signed: 8/16/23

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

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Section A
Required Client Information:

Company:	GA Power
Address:	Atlanta, GA
Email To:	jaucnker@southernco.com
Phone:	470.620.6175 Fax
Requested Due Date:	Standard

Section B
Required Project Information:

Report To:	SCS Contacts
Copy To:	Arcadis Contacts
Task No:	YAT-CCR-ASSMT-2023S2
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

State / Location: Georgia

SAMPLE ID — One Character per box. [A-Z, 0-9 / , -] Sample Ids must be unique

MATRIX	CODE
Drinking Water	DW
Water	WT
Waste Water	WW
Product	P
Soil/Solid	SL
Oil	OL
Wipe	WP
Air	AR
Other	OT
Tissue	TS

ITEM #	SAMPLE ID	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED START DATE	START TIME	END DATE	END TIME	SAMPLE TEMP AT COLLECTION	# 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)	Residual Chlorine (Y/N)	92683124
	YAT-YGWA-39	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-40	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-1I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-1D	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-2I	WG	G			–	–		6	2		4						X	X	X	X			
	YAT-YGWA-3I	WG	G	8/16/23	1050	–	–		6	2		4						X	X	X	X			019
	YAT-YGWA-3D	WG	G			–	–		6	2		4						X	X	X	X			
						–	–																	
						–	–																	
						–	–																	
						–	–																	
						–	–																	

Anions Suite 300.0 (Cl, F, Sulfate)	[signature] /Arcadis	8/17/23	0833	[signature] Arcadis	8/17/23	0832
App III Metals: Boron 6020B, Ca 6010D; App III 6020B: Zn, Ag, Ni, V	[signature] /Arcadis	8/17/23		Ryan William / Pace	8/17/23	0955
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 William / Pace	8/17/23	1254	[signature]	8-17	1254

PRINT Name of SAMPLER:	(Arcadis) - David Prouty
SIGNATURE of SAMPLER:	(Arcadis) [signature] DATE Signed: 8/16/23

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

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92683124	No qualifiers assigned						
92683132	YAT-YGWA-21I	SW846 9320	Radium-228	1.07 +/- 0.492	pCi/L	J	Blank contamination

Abbreviations:

pCi/L = picoCuries per liter

Qualifiers:

J = estimated result

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 11, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 21, 2024 and February 24, 2024. 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 - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

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
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92714723001	**YAT-YGWA-47**	Water	02/20/24 10:30	02/21/24 15:12
92714723002	**YAT-GWA-2**	Water	02/20/24 11:50	02/21/24 15:12
92714723003	**YAT-YGWA-4I**	Water	02/20/24 11:10	02/21/24 15:12
92714723004	**YAT-YGWA-5I**	Water	02/20/24 12:18	02/21/24 15:12
92714723005	**YAT-YGWA-5D**	Water	02/20/24 13:25	02/21/24 15:12
92714723006	**YAT-YGWA-20S**	Water	02/20/24 14:40	02/21/24 15:12
92714723007	**YAT-YGWA-21I**	Water	02/20/24 16:38	02/21/24 15:12
92714723008	**YAT-YGWA-17S**	Water	02/20/24 10:37	02/21/24 15:12
92714723010	**YAT-YGWA-18I**	Water	02/20/24 12:48	02/21/24 15:12
92714723011	**YAT-UGRD-EB-1**	Water	02/20/24 17:15	02/21/24 15:12
92714723012	**YAT-UGRD-FB-1**	Water	02/20/24 15:35	02/21/24 15:12
92714723013	**YAT-UGRD-EB-2**	Water	02/20/24 15:55	02/21/24 15:12
92714723014	**YAT-UGRD-FB-2**	Water	02/20/24 17:00	02/21/24 15:12
92714723015	**YAT-YGWA-30I**	Water	02/20/24 16:25	02/21/24 15:12
92714723016	**YAT-YGWA-3I**	Water	02/20/24 13:50	02/21/24 15:12
92714723017	**YAT-YGWA-3D**	Water	02/20/24 11:35	02/21/24 15:12
92714723019	**YAT-YGWA-39**	Water	02/20/24 13:58	02/21/24 15:12
92714723020	**YAT-YGWA-40**	Water	02/20/24 15:10	02/21/24 15:12
92714723021	**YAT-YGWA-1I**	Water	02/20/24 12:02	02/21/24 15:12
92714723022	**YAT-YGWA-1D**	Water	02/20/24 13:24	02/21/24 15:12
92714723023	**YAT-YGWA-2I**	Water	02/20/24 16:02	02/21/24 15:12
92714723024	**YAT-YGWA-14S**	Water	02/23/24 11:00	02/24/24 11:33
92714723025	**YAT-YGWA-18S**	Water	02/23/24 09:25	02/24/24 11:33
92714723026	**YAT-UGRD-FD-1**	Water	02/23/24 00:00	02/24/24 11:33
92714723027	**YAT-UGRD-FD-2**	Water	02/23/24 00:00	02/24/24 11:33

Pace Analytical Services, LLC
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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92714723001	**YAT-YGWA-47**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723002	**YAT-GWA-2**	EPA 6010D	DRB	4
		EPA 6020B	CW1	18
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723003	**YAT-YGWA-4I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723004	**YAT-YGWA-5I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723005	**YAT-YGWA-5D**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723006	**YAT-YGWA-20S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723007	**YAT-YGWA-21I**	EPA 6010D	DRB	4

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723008	**YAT-YGWA-17S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723010	**YAT-YGWA-18I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723011	**YAT-UGRD-EB-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723012	**YAT-UGRD-FB-1**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723013	**YAT-UGRD-EB-2**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723014	**YAT-UGRD-FB-2**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723015	**YAT-YGWA-30I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723016	**YAT-YGWA-3I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723017	**YAT-YGWA-3D**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723019	**YAT-YGWA-39**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723020	**YAT-YGWA-40**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723021	**YAT-YGWA-1I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723022	**YAT-YGWA-1D**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723023	**YAT-YGWA-2I**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		SM 2320B-2011	SMS	3
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723024	**YAT-YGWA-14S**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723025	**YAT-YGWA-18S**	EPA 6010D	AJM, DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723026	**YAT-UGRD-FD-1**	EPA 6010D	AJM, DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92714723027	**YAT-UGRD-FD-2**	EPA 6010D	DRB	4
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2320B-2011	SMS	3

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2540C-2015	JMH1	1
		EPA 300.0 Rev 2.1 1993	CDC	3

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723001	**YAT-YGWA-47**					
EPA 6010D	Potassium	4.1	mg/L	0.50	03/01/24 19:41	
EPA 6010D	Sodium	12.3	mg/L	1.0	03/01/24 19:41	
EPA 6010D	Calcium	10.3	mg/L	1.0	03/01/24 19:41	
EPA 6010D	Magnesium	10.9	mg/L	0.050	03/01/24 19:41	
EPA 6020B	Barium	0.031	mg/L	0.0050	03/01/24 15:53	
EPA 6020B	Boron	0.023J	mg/L	0.040	03/01/24 15:53	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	03/01/24 15:53	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	03/01/24 15:53	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	02/26/24 14:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.4	mg/L	5.0	02/23/24 17:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.4	mg/L	5.0	02/23/24 17:28	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/23/24 15:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	02/23/24 15:14	
EPA 300.0 Rev 2.1 1993	Sulfate	51.0	mg/L	1.0	02/23/24 15:14	
92714723002	**YAT-GWA-2**					
EPA 6010D	Potassium	9.9	mg/L	0.50	03/01/24 19:46	
EPA 6010D	Sodium	8.2	mg/L	1.0	03/01/24 19:46	
EPA 6010D	Calcium	22.8	mg/L	1.0	03/01/24 19:46	
EPA 6010D	Magnesium	19.8	mg/L	0.050	03/01/24 19:46	
EPA 6020B	Antimony	0.0026J	mg/L	0.0030	03/01/24 16:10	
EPA 6020B	Arsenic	0.0015J	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Barium	0.035	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Boron	0.017J	mg/L	0.040	03/01/24 16:10	
EPA 6020B	Cobalt	0.023	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Copper	0.00067J	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	03/01/24 16:10	
EPA 6020B	Nickel	0.010	mg/L	0.0050	03/01/24 16:10	
EPA 6020B	Zinc	0.0058J	mg/L	0.010	03/01/24 16:10	
SM 2540C-2015	Total Dissolved Solids	214	mg/L	25.0	02/26/24 15:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	73.5	mg/L	5.0	02/23/24 17:47	
SM 2320B-2011	Alkalinity, Total as CaCO3	73.5	mg/L	5.0	02/23/24 17:47	
EPA 300.0 Rev 2.1 1993	Chloride	6.1	mg/L	1.0	02/23/24 15:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.10	02/23/24 15:29	
EPA 300.0 Rev 2.1 1993	Sulfate	75.0	mg/L	1.0	02/23/24 15:29	
92714723003	**YAT-YGWA-4I**					
EPA 6010D	Potassium	4.0	mg/L	0.50	03/01/24 19:49	
EPA 6010D	Sodium	10.1	mg/L	1.0	03/01/24 19:49	
EPA 6010D	Calcium	9.9	mg/L	1.0	03/01/24 19:49	
EPA 6010D	Magnesium	5.5	mg/L	0.050	03/01/24 19:49	
EPA 6020B	Antimony	0.00061J	mg/L	0.0030	03/01/24 16:14	
EPA 6020B	Barium	0.014	mg/L	0.0050	03/01/24 16:14	
EPA 6020B	Lithium	0.014J	mg/L	0.030	03/01/24 16:14	
SM 2540C-2015	Total Dissolved Solids	140	mg/L	25.0	02/26/24 15:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	56.0	mg/L	5.0	02/23/24 18:50	
SM 2320B-2011	Alkalinity, Total as CaCO3	56.0	mg/L	5.0	02/23/24 18:50	
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	02/23/24 15:44	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723003	**YAT-YGWA-4I**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	02/23/24 15:44	
EPA 300.0 Rev 2.1 1993	Sulfate	8.5	mg/L	1.0	02/23/24 15:44	
92714723004	**YAT-YGWA-5I**					
EPA 6010D	Potassium	1.5	mg/L	0.50	03/01/24 19:57	
EPA 6010D	Sodium	10.5	mg/L	1.0	03/01/24 19:57	
EPA 6010D	Calcium	2.7	mg/L	1.0	03/01/24 19:57	
EPA 6010D	Magnesium	2.7	mg/L	0.050	03/01/24 19:57	
EPA 6020B	Barium	0.019	mg/L	0.0050	03/01/24 16:18	
EPA 6020B	Lithium	0.0033J	mg/L	0.030	03/01/24 16:18	
SM 2540C-2015	Total Dissolved Solids	137	mg/L	25.0	02/26/24 15:45	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	25.3	mg/L	5.0	02/23/24 18:58	
SM 2320B-2011	Alkalinity, Total as CaCO3	25.3	mg/L	5.0	02/23/24 18:58	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	02/23/24 15:59	
EPA 300.0 Rev 2.1 1993	Sulfate	2.5	mg/L	1.0	02/23/24 15:59	
92714723005	**YAT-YGWA-5D**					
EPA 6010D	Potassium	3.5	mg/L	0.50	03/01/24 20:00	
EPA 6010D	Sodium	9.5	mg/L	1.0	03/01/24 20:00	
EPA 6010D	Calcium	27.2	mg/L	1.0	03/01/24 20:00	
EPA 6010D	Magnesium	4.5	mg/L	0.050	03/01/24 20:00	
EPA 6020B	Arsenic	0.0030J	mg/L	0.0050	03/01/24 16:22	
EPA 6020B	Barium	0.0078	mg/L	0.0050	03/01/24 16:22	
EPA 6020B	Lithium	0.0056J	mg/L	0.030	03/01/24 16:22	
EPA 6020B	Molybdenum	0.0010J	mg/L	0.010	03/01/24 16:22	
SM 2540C-2015	Total Dissolved Solids	639	mg/L	25.0	02/26/24 15:46	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	103	mg/L	5.0	02/23/24 19:04	
SM 2320B-2011	Alkalinity, Total as CaCO3	103	mg/L	5.0	02/23/24 19:04	
EPA 300.0 Rev 2.1 1993	Chloride	3.2	mg/L	1.0	02/23/24 16:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.076J	mg/L	0.10	02/23/24 16:14	
EPA 300.0 Rev 2.1 1993	Sulfate	5.1	mg/L	1.0	02/23/24 16:14	
92714723006	**YAT-YGWA-20S**					
EPA 6010D	Potassium	0.51	mg/L	0.50	03/01/24 20:02	
EPA 6010D	Sodium	9.2	mg/L	1.0	03/01/24 20:02	
EPA 6010D	Calcium	2.5	mg/L	1.0	03/01/24 20:02	
EPA 6010D	Magnesium	0.59	mg/L	0.050	03/01/24 20:02	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/01/24 16:40	
SM 2540C-2015	Total Dissolved Solids	164	mg/L	25.0	02/26/24 15:46	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	24.6	mg/L	5.0	02/23/24 19:13	
SM 2320B-2011	Alkalinity, Total as CaCO3	24.6	mg/L	5.0	02/23/24 19:13	
EPA 300.0 Rev 2.1 1993	Chloride	2.9	mg/L	1.0	02/23/24 17:28	
92714723007	**YAT-YGWA-21I**					
EPA 6010D	Potassium	3.1	mg/L	0.50	03/01/24 20:05	
EPA 6010D	Sodium	18.6	mg/L	1.0	03/01/24 20:05	
EPA 6010D	Calcium	7.0	mg/L	1.0	03/01/24 20:05	
EPA 6010D	Magnesium	3.6	mg/L	0.050	03/01/24 20:05	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	03/01/24 16:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723007	**YAT-YGWA-21I**					
EPA 6020B	Barium	0.0065	mg/L	0.0050	03/01/24 16:44	
EPA 6020B	Cobalt	0.020	mg/L	0.0050	03/01/24 16:44	
EPA 6020B	Lithium	0.0062J	mg/L	0.030	03/01/24 16:44	
SM 2540C-2015	Total Dissolved Solids	156	mg/L	25.0	02/26/24 15:46	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	70.9	mg/L	5.0	02/23/24 19:19	
SM 2320B-2011	Alkalinity, Total as CaCO3	70.9	mg/L	5.0	02/23/24 19:19	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	02/23/24 17:43	
EPA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	02/23/24 17:43	
EPA 300.0 Rev 2.1 1993	Sulfate	3.8	mg/L	1.0	02/23/24 17:43	
92714723008	**YAT-YGWA-17S**					
EPA 6010D	Potassium	0.36J	mg/L	0.50	03/02/24 10:05	
EPA 6010D	Sodium	15.0	mg/L	1.0	03/02/24 10:05	
EPA 6010D	Calcium	3.2	mg/L	1.0	03/02/24 10:05	
EPA 6010D	Magnesium	1.1	mg/L	0.050	03/02/24 10:05	
EPA 6020B	Barium	0.017	mg/L	0.0050	03/01/24 16:48	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	03/01/24 16:48	
SM 2540C-2015	Total Dissolved Solids	77.0	mg/L	25.0	02/26/24 15:46	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.5	mg/L	5.0	02/23/24 19:27	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.5	mg/L	5.0	02/23/24 19:27	
EPA 300.0 Rev 2.1 1993	Chloride	12.2	mg/L	1.0	02/23/24 17:58	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	02/23/24 17:58	
92714723010	**YAT-YGWA-18I**					
EPA 6010D	Potassium	0.95	mg/L	0.50	03/02/24 10:24	
EPA 6010D	Sodium	12.6	mg/L	1.0	03/02/24 10:24	
EPA 6010D	Calcium	5.6	mg/L	1.0	03/02/24 10:24	
EPA 6010D	Magnesium	3.1	mg/L	0.050	03/02/24 10:24	
EPA 6020B	Barium	0.020	mg/L	0.0050	03/01/24 16:56	
EPA 6020B	Lithium	0.0038J	mg/L	0.030	03/01/24 16:56	
SM 2540C-2015	Total Dissolved Solids	129	mg/L	25.0	02/26/24 15:47	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	36.4	mg/L	5.0	02/23/24 19:48	
SM 2320B-2011	Alkalinity, Total as CaCO3	36.4	mg/L	5.0	02/23/24 19:48	
EPA 300.0 Rev 2.1 1993	Chloride	7.6	mg/L	1.0	02/23/24 18:27	
92714723011	**YAT-UGRD-EB-1**					
SM 2540C-2015	Total Dissolved Solids	64.0	mg/L	25.0	02/26/24 15:47	
92714723015	**YAT-YGWA-30I**					
EPA 6010D	Potassium	0.55	mg/L	0.50	03/02/24 10:37	
EPA 6010D	Sodium	5.8	mg/L	1.0	03/02/24 10:37	
EPA 6010D	Calcium	1.3	mg/L	1.0	03/02/24 10:37	
EPA 6010D	Magnesium	0.89	mg/L	0.050	03/02/24 10:37	
EPA 6020B	Barium	0.0064	mg/L	0.0050	03/01/24 17:17	
EPA 6020B	Cobalt	0.0029J	mg/L	0.0050	03/01/24 17:17	
SM 2540C-2015	Total Dissolved Solids	55.0	mg/L	25.0	02/26/24 15:48	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	15.7	mg/L	5.0	02/23/24 20:11	
SM 2320B-2011	Alkalinity, Total as CaCO3	15.7	mg/L	5.0	02/23/24 20:11	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	02/23/24 19:12	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723015	**YAT-YGWA-30I**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	02/23/24 19:12	
EPA 300.0 Rev 2.1 1993	Sulfate	0.69J	mg/L	1.0	02/23/24 19:12	
92714723016	**YAT-YGWA-3I**					
EPA 6010D	Potassium	5.0	mg/L	0.50	03/02/24 10:45	
EPA 6010D	Sodium	9.2	mg/L	1.0	03/02/24 10:45	
EPA 6010D	Calcium	23.7	mg/L	1.0	03/02/24 10:45	
EPA 6010D	Magnesium	5.3	mg/L	0.050	03/02/24 10:45	
EPA 6020B	Arsenic	0.0013J	mg/L	0.0050	03/01/24 17:47	
EPA 6020B	Barium	0.0032J	mg/L	0.0050	03/01/24 17:47	
EPA 6020B	Lithium	0.020J	mg/L	0.030	03/01/24 17:47	
EPA 6020B	Molybdenum	0.0089J	mg/L	0.010	03/01/24 17:47	
SM 2540C-2015	Total Dissolved Solids	220	mg/L	25.0	02/26/24 15:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	90.2	mg/L	5.0	02/23/24 20:17	
SM 2320B-2011	Alkalinity, Total as CaCO3	90.2	mg/L	5.0	02/23/24 20:17	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/23/24 20:26	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	02/23/24 20:26	
EPA 300.0 Rev 2.1 1993	Sulfate	13.8	mg/L	1.0	02/23/24 20:26	
92714723017	**YAT-YGWA-3D**					
EPA 6010D	Potassium	3.5	mg/L	0.50	03/02/24 10:48	
EPA 6010D	Sodium	10.0	mg/L	1.0	03/02/24 10:48	
EPA 6010D	Calcium	30.7	mg/L	1.0	03/02/24 10:48	
EPA 6010D	Magnesium	3.7	mg/L	0.050	03/02/24 10:48	
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	03/01/24 17:51	
EPA 6020B	Barium	0.0045J	mg/L	0.0050	03/01/24 17:51	
EPA 6020B	Lithium	0.021J	mg/L	0.030	03/01/24 17:51	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/01/24 17:51	
SM 2540C-2015	Total Dissolved Solids	294	mg/L	25.0	02/26/24 15:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	108	mg/L	5.0	02/23/24 20:25	
SM 2320B-2011	Alkalinity, Total as CaCO3	108	mg/L	5.0	02/23/24 20:25	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	02/23/24 20:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.45	mg/L	0.10	02/23/24 20:40	
EPA 300.0 Rev 2.1 1993	Sulfate	7.0	mg/L	1.0	02/23/24 20:40	
92714723019	**YAT-YGWA-39**					
EPA 6010D	Potassium	5.8	mg/L	0.50	03/02/24 10:54	
EPA 6010D	Sodium	25.2	mg/L	1.0	03/02/24 10:54	
EPA 6010D	Calcium	16.9	mg/L	1.0	03/02/24 10:54	
EPA 6010D	Magnesium	21.2	mg/L	0.050	03/02/24 10:54	
EPA 6020B	Arsenic	0.0020J	mg/L	0.0050	03/01/24 18:00	
EPA 6020B	Barium	0.029	mg/L	0.0050	03/01/24 18:00	
EPA 6020B	Boron	0.12	mg/L	0.040	03/01/24 18:00	
EPA 6020B	Cobalt	0.00073J	mg/L	0.0050	03/01/24 18:00	
EPA 6020B	Lithium	0.0059J	mg/L	0.030	03/01/24 18:00	
EPA 6020B	Molybdenum	0.0058J	mg/L	0.010	03/01/24 18:00	
SM 2540C-2015	Total Dissolved Solids	233	mg/L	25.0	02/26/24 15:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	183	mg/L	5.0	02/23/24 20:49	
SM 2320B-2011	Alkalinity, Total as CaCO3	183	mg/L	5.0	02/23/24 20:49	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723019	**YAT-YGWA-39**					
EPA 300.0 Rev 2.1 1993	Chloride	4.6	mg/L	1.0	02/23/24 21:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.063J	mg/L	0.10	02/23/24 21:10	
EPA 300.0 Rev 2.1 1993	Sulfate	8.6	mg/L	1.0	02/23/24 21:10	
92714723020	**YAT-YGWA-40**					
EPA 6010D	Potassium	2.0	mg/L	0.50	03/02/24 11:39	
EPA 6010D	Sodium	10.1	mg/L	1.0	03/02/24 11:39	
EPA 6010D	Calcium	5.6	mg/L	1.0	03/02/24 11:39	
EPA 6010D	Magnesium	3.2	mg/L	0.050	03/02/24 11:39	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	03/01/24 18:04	
EPA 6020B	Barium	0.033	mg/L	0.0050	03/01/24 18:04	
EPA 6020B	Beryllium	0.00025J	mg/L	0.00050	03/01/24 18:04	
EPA 6020B	Boron	0.056	mg/L	0.040	03/01/24 18:04	
EPA 7470A	Mercury	0.00032	mg/L	0.00020	03/07/24 15:52	
SM 2540C-2015	Total Dissolved Solids	109	mg/L	25.0	02/26/24 15:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	24.7	mg/L	5.0	02/23/24 21:04	
SM 2320B-2011	Alkalinity, Total as CaCO3	24.7	mg/L	5.0	02/23/24 21:04	
EPA 300.0 Rev 2.1 1993	Chloride	5.7	mg/L	1.0	02/23/24 21:25	
EPA 300.0 Rev 2.1 1993	Sulfate	17.2	mg/L	1.0	02/23/24 21:25	
92714723021	**YAT-YGWA-1I**					
EPA 6010D	Potassium	2.2	mg/L	0.50	03/02/24 08:45	
EPA 6010D	Sodium	5.5	mg/L	1.0	03/02/24 08:45	
EPA 6010D	Calcium	2.2	mg/L	1.0	03/02/24 08:45	
EPA 6010D	Magnesium	1.0	mg/L	0.050	03/02/24 08:45	
EPA 6020B	Barium	0.0040J	mg/L	0.0050	03/01/24 18:29	
EPA 6020B	Boron	0.014J	mg/L	0.040	03/01/24 18:29	
EPA 6020B	Cobalt	0.0018J	mg/L	0.0050	03/01/24 18:29	
EPA 6020B	Molybdenum	0.030	mg/L	0.010	03/01/24 18:29	
SM 2540C-2015	Total Dissolved Solids	59.0	mg/L	25.0	02/26/24 15:50	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	17.9	mg/L	5.0	02/23/24 21:23	
SM 2320B-2011	Alkalinity, Total as CaCO3	17.9	mg/L	5.0	02/23/24 21:23	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	02/23/24 21:40	
EPA 300.0 Rev 2.1 1993	Sulfate	4.3	mg/L	1.0	02/23/24 21:40	
92714723022	**YAT-YGWA-1D**					
EPA 6010D	Potassium	3.8	mg/L	0.50	03/02/24 08:54	
EPA 6010D	Sodium	10	mg/L	1.0	03/02/24 08:54	
EPA 6010D	Calcium	15.3	mg/L	1.0	03/02/24 08:54	
EPA 6010D	Magnesium	2.0	mg/L	0.050	03/02/24 08:54	
EPA 6020B	Antimony	0.0023J	mg/L	0.0030	03/01/24 18:45	
EPA 6020B	Barium	0.0062	mg/L	0.0050	03/01/24 18:45	
EPA 6020B	Boron	0.015J	mg/L	0.040	03/01/24 18:45	
EPA 6020B	Cobalt	0.00055J	mg/L	0.0050	03/01/24 18:45	
EPA 6020B	Lithium	0.0071J	mg/L	0.030	03/01/24 18:45	
EPA 6020B	Molybdenum	0.0098J	mg/L	0.010	03/01/24 18:45	
SM 2540C-2015	Total Dissolved Solids	130	mg/L	25.0	02/26/24 17:48	D6
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	61.2	mg/L	5.0	02/27/24 17:28	
SM 2320B-2011	Alkalinity, Total as CaCO3	61.2	mg/L	5.0	02/27/24 17:28	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723022	**YAT-YGWA-1D**					
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	02/23/24 21:54	
EPA 300.0 Rev 2.1 1993	Fluoride	0.086J	mg/L	0.10	02/23/24 21:54	
EPA 300.0 Rev 2.1 1993	Sulfate	9.7	mg/L	1.0	02/23/24 21:54	
92714723023	**YAT-YGWA-2I**					
EPA 6010D	Potassium	5.6	mg/L	0.50	03/02/24 08:56	
EPA 6010D	Sodium	9.4	mg/L	1.0	03/02/24 08:56	
EPA 6010D	Calcium	28.2	mg/L	1.0	03/02/24 08:56	
EPA 6010D	Magnesium	4.4	mg/L	0.050	03/02/24 08:56	
EPA 6020B	Antimony	0.00067J	mg/L	0.0030	03/01/24 18:49	
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	03/01/24 18:49	
EPA 6020B	Barium	0.0044J	mg/L	0.0050	03/01/24 18:49	
EPA 6020B	Lithium	0.0021J	mg/L	0.030	03/01/24 18:49	
EPA 6020B	Molybdenum	0.0076J	mg/L	0.010	03/01/24 18:49	
SM 2540C-2015	Total Dissolved Solids	159	mg/L	25.0	02/26/24 17:49	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	84.2	mg/L	5.0	02/27/24 17:35	
SM 2320B-2011	Alkalinity, Total as CaCO3	84.2	mg/L	5.0	02/27/24 17:35	
EPA 300.0 Rev 2.1 1993	Chloride	0.96J	mg/L	1.0	02/23/24 22:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.10	mg/L	0.10	02/23/24 22:09	
EPA 300.0 Rev 2.1 1993	Sulfate	23.1	mg/L	1.0	02/23/24 22:09	
92714723024	**YAT-YGWA-14S**					
EPA 6010D	Potassium	0.89	mg/L	0.50	03/04/24 18:20	
EPA 6010D	Sodium	10.1	mg/L	1.0	03/04/24 18:20	
EPA 6010D	Calcium	1.6	mg/L	1.0	03/04/24 18:20	
EPA 6010D	Magnesium	1.8	mg/L	0.050	03/04/24 18:20	
EPA 6020B	Barium	0.0096	mg/L	0.0050	03/05/24 15:59	
EPA 6020B	Beryllium	0.00024J	mg/L	0.00050	03/05/24 15:59	
EPA 6020B	Boron	0.037J	mg/L	0.040	03/05/24 15:59	
EPA 6020B	Selenium	0.0010J	mg/L	0.0050	03/05/24 15:59	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.4	mg/L	5.0	03/05/24 17:55	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.4	mg/L	5.0	03/05/24 17:55	
SM 2540C-2015	Total Dissolved Solids	64.0	mg/L	25.0	02/27/24 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	02/27/24 04:05	
EPA 300.0 Rev 2.1 1993	Sulfate	7.1	mg/L	1.0	02/27/24 04:05	
92714723025	**YAT-YGWA-18S**					
EPA 6010D	Potassium	0.62	mg/L	0.50	03/04/24 15:44	B
EPA 6010D	Calcium	0.84J	mg/L	1.0	03/04/24 15:44	
EPA 6010D	Magnesium	1.0	mg/L	0.050	03/04/24 15:44	
EPA 6010D	Sodium	8.6	mg/L	1.0	03/05/24 18:28	M1
EPA 6020B	Barium	0.013	mg/L	0.0050	03/05/24 16:03	
EPA 6020B	Boron	0.018J	mg/L	0.040	03/05/24 16:03	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.7	mg/L	5.0	03/05/24 18:01	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.7	mg/L	5.0	03/05/24 18:01	
SM 2540C-2015	Total Dissolved Solids	52.0	mg/L	25.0	02/27/24 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	6.6	mg/L	1.0	02/27/24 04:19	
EPA 300.0 Rev 2.1 1993	Sulfate	0.79J	mg/L	1.0	02/27/24 04:19	

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714723026	**YAT-UGRD-FD-1**					
EPA 6010D	Potassium	0.90	mg/L	0.50	03/04/24 15:53	B
EPA 6010D	Calcium	1.6	mg/L	1.0	03/04/24 15:53	
EPA 6010D	Magnesium	1.7	mg/L	0.050	03/04/24 15:53	
EPA 6010D	Sodium	10.4	mg/L	1.0	03/05/24 18:43	
EPA 6020B	Barium	0.0093	mg/L	0.0050	03/05/24 16:06	
EPA 6020B	Beryllium	0.00024J	mg/L	0.00050	03/05/24 16:06	
EPA 6020B	Boron	0.027J	mg/L	0.040	03/05/24 16:06	
EPA 6020B	Selenium	0.0011J	mg/L	0.0050	03/05/24 16:06	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	14.6	mg/L	5.0	03/05/24 18:06	
SM 2320B-2011	Alkalinity, Total as CaCO3	14.6	mg/L	5.0	03/05/24 18:06	
SM 2540C-2015	Total Dissolved Solids	73.0	mg/L	25.0	02/27/24 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	4.7	mg/L	1.0	02/27/24 05:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.055J	mg/L	0.10	02/27/24 05:02	
EPA 300.0 Rev 2.1 1993	Sulfate	7.0	mg/L	1.0	02/27/24 05:02	
92714723027	**YAT-UGRD-FD-2**					
EPA 6010D	Potassium	0.63	mg/L	0.50	03/04/24 16:01	B
EPA 6010D	Sodium	9.0	mg/L	1.0	03/04/24 16:01	
EPA 6010D	Calcium	0.87J	mg/L	1.0	03/04/24 16:01	
EPA 6010D	Magnesium	1.0	mg/L	0.050	03/04/24 16:01	
EPA 6020B	Barium	0.013	mg/L	0.0050	03/05/24 16:10	
EPA 6020B	Boron	0.012J	mg/L	0.040	03/05/24 16:10	
SM 2320B-2011	Alkalinity,Bicarbonate (CaCO3)	8.8	mg/L	5.0	03/05/24 18:12	
SM 2320B-2011	Alkalinity, Total as CaCO3	8.8	mg/L	5.0	03/05/24 18:12	
SM 2540C-2015	Total Dissolved Solids	53.0	mg/L	25.0	02/27/24 11:04	
EPA 300.0 Rev 2.1 1993	Chloride	6.7	mg/L	1.0	02/27/24 05:16	
EPA 300.0 Rev 2.1 1993	Sulfate	0.79J	mg/L	1.0	02/27/24 05:16	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-47 **Lab ID: 92714723001** Collected: 02/20/24 10:30 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.1**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 19:41	7440-09-7	
Sodium	**12.3**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 19:41	7440-23-5	
Calcium	**10.3**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 19:41	7440-70-2	
Magnesium	**10.9**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 19:41	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 15:53	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 15:53	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 15:53	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 15:53	7440-41-7	
Boron	**0.023J**	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 15:53	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 15:53	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 15:53	7440-47-3	
Cobalt	**0.0011J**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 15:53	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 15:53	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 15:53	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 15:53	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 15:53	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 15:53	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 14:44	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**159**	mg/L	25.0	25.0	1		02/26/24 14:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**36.4**	mg/L	5.0	5.0	1		02/23/24 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 17:28		
Alkalinity, Total as CaCO3	**36.4**	mg/L	5.0	5.0	1		02/23/24 17:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/23/24 15:14	16887-00-6	
Fluoride	**0.073J**	mg/L	0.10	0.050	1		02/23/24 15:14	16984-48-8	
Sulfate	**51.0**	mg/L	1.0	0.50	1		02/23/24 15:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-GWA-2 **Lab ID: 92714723002** Collected: 02/20/24 11:50 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**9.9**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 19:46	7440-09-7	
Sodium	**8.2**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 19:46	7440-23-5	
Calcium	**22.8**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 19:46	7440-70-2	
Magnesium	**19.8**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 19:46	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0026J**	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:10	7440-36-0	
Arsenic	**0.0015J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:10	7440-38-2	
Barium	**0.035**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:10	7440-41-7	
Boron	**0.017J**	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:10	7440-47-3	
Cobalt	**0.023**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:10	7440-48-4	
Copper	**0.00067J**	mg/L	0.0050	0.00043	1	02/28/24 12:45	03/01/24 16:10	7440-50-8	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:10	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:10	7439-98-7	
Nickel	**0.010**	mg/L	0.0050	0.0021	1	02/28/24 12:45	03/01/24 16:10	7440-02-0	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:10	7782-49-2	
Silver	ND	mg/L	0.0050	0.00031	1	02/28/24 12:45	03/01/24 16:10	7440-22-4	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:10	7440-28-0	
Vanadium	ND	mg/L	0.010	0.00075	1	02/28/24 12:45	03/01/24 16:10	7440-62-2	
Zinc	**0.0058J**	mg/L	0.010	0.0024	1	02/28/24 12:45	03/01/24 16:10	7440-66-6	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 14:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**214**	mg/L	25.0	25.0	1		02/26/24 15:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**73.5**	mg/L	5.0	5.0	1		02/23/24 17:47		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 17:47		
Alkalinity, Total as CaCO3	**73.5**	mg/L	5.0	5.0	1		02/23/24 17:47		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.1**	mg/L	1.0	0.60	1		02/23/24 15:29	16887-00-6	
Fluoride	**0.094J**	mg/L	0.10	0.050	1		02/23/24 15:29	16984-48-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-GWA-2 **Lab ID: 92714723002** Collected: 02/20/24 11:50 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Sulfate	**75.0**	mg/L	1.0	0.50	1		02/23/24 15:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-4I **Lab ID: 92714723003** Collected: 02/20/24 11:10 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**4.0**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 19:49	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 19:49	7440-23-5	
Calcium	**9.9**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 19:49	7440-70-2	
Magnesium	**5.5**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 19:49	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00061J**	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:14	7440-38-2	
Barium	**0.014**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:14	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:14	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:14	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:14	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:14	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:14	7439-92-1	
Lithium	**0.014J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:14	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:02	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**140**	mg/L	25.0	25.0	1		02/26/24 15:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**56.0**	mg/L	5.0	5.0	1		02/23/24 18:50		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 18:50		
Alkalinity, Total as CaCO3	**56.0**	mg/L	5.0	5.0	1		02/23/24 18:50		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		02/23/24 15:44	16887-00-6	
Fluoride	**0.059J**	mg/L	0.10	0.050	1		02/23/24 15:44	16984-48-8	
Sulfate	**8.5**	mg/L	1.0	0.50	1		02/23/24 15:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-5I **Lab ID: 92714723004** Collected: 02/20/24 12:18 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**1.5**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 19:57	7440-09-7	
Sodium	**10.5**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 19:57	7440-23-5	
Calcium	**2.7**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 19:57	7440-70-2	
Magnesium	**2.7**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 19:57	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:18	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:18	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:18	7439-92-1	
Lithium	**0.0033J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**137**	mg/L	25.0	25.0	1		02/26/24 15:45		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**25.3**	mg/L	5.0	5.0	1		02/23/24 18:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 18:58		
Alkalinity, Total as CaCO3	**25.3**	mg/L	5.0	5.0	1		02/23/24 18:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		02/23/24 15:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 15:59	16984-48-8	
Sulfate	**2.5**	mg/L	1.0	0.50	1		02/23/24 15:59	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-5D **Lab ID: 92714723005** Collected: 02/20/24 13:25 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.5**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 20:00	7440-09-7	
Sodium	**9.5**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 20:00	7440-23-5	
Calcium	**27.2**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 20:00	7440-70-2	
Magnesium	**4.5**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 20:00	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:22	7440-36-0	
Arsenic	**0.0030J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:22	7440-38-2	
Barium	**0.0078**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:22	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:22	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:22	7439-92-1	
Lithium	**0.0056J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:22	7439-93-2	
Molybdenum	**0.0010J**	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**639**	mg/L	25.0	25.0	1		02/26/24 15:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**103**	mg/L	5.0	5.0	1		02/23/24 19:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:04		
Alkalinity, Total as CaCO3	**103**	mg/L	5.0	5.0	1		02/23/24 19:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.2**	mg/L	1.0	0.60	1		02/23/24 16:14	16887-00-6	
Fluoride	**0.076J**	mg/L	0.10	0.050	1		02/23/24 16:14	16984-48-8	
Sulfate	**5.1**	mg/L	1.0	0.50	1		02/23/24 16:14	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-20S **Lab ID: 92714723006** Collected: 02/20/24 14:40 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.51**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 20:02	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 20:02	7440-23-5	
Calcium	**2.5**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 20:02	7440-70-2	
Magnesium	**0.59**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 20:02	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:40	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:40	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:40	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:40	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:10	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**164**	mg/L	25.0	25.0	1		02/26/24 15:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**24.6**	mg/L	5.0	5.0	1		02/23/24 19:13		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:13		
Alkalinity, Total as CaCO3	**24.6**	mg/L	5.0	5.0	1		02/23/24 19:13		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.9**	mg/L	1.0	0.60	1		02/23/24 17:28	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 17:28	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 17:28	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-21I **Lab ID: 92714723007** Collected: 02/20/24 16:38 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.1**	mg/L	0.50	0.15	1	02/28/24 14:22	03/01/24 20:05	7440-09-7	
Sodium	**18.6**	mg/L	1.0	0.58	1	02/28/24 14:22	03/01/24 20:05	7440-23-5	
Calcium	**7.0**	mg/L	1.0	0.12	1	02/28/24 14:22	03/01/24 20:05	7440-70-2	
Magnesium	**3.6**	mg/L	0.050	0.012	1	02/28/24 14:22	03/01/24 20:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0013J**	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:44	7440-38-2	
Barium	**0.0065**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:44	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:44	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:44	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:44	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:44	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:44	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:44	7439-92-1	
Lithium	**0.0062J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:44	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:44	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:13	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**156**	mg/L	25.0	25.0	1		02/26/24 15:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**70.9**	mg/L	5.0	5.0	1		02/23/24 19:19		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:19		
Alkalinity, Total as CaCO3	**70.9**	mg/L	5.0	5.0	1		02/23/24 19:19		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		02/23/24 17:43	16887-00-6	
Fluoride	**0.083J**	mg/L	0.10	0.050	1		02/23/24 17:43	16984-48-8	
Sulfate	**3.8**	mg/L	1.0	0.50	1		02/23/24 17:43	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-17S **Lab ID: 92714723008** Collected: 02/20/24 10:37 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.36J**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:05	7440-09-7	
Sodium	**15.0**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:05	7440-23-5	
Calcium	**3.2**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:05	7440-70-2	
Magnesium	**1.1**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:05	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:48	7440-38-2	
Barium	**0.017**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:48	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:48	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:48	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:48	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:48	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:48	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:48	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:48	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**77.0**	mg/L	25.0	25.0	1		02/26/24 15:46		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.5**	mg/L	5.0	5.0	1		02/23/24 19:27		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:27		
Alkalinity, Total as CaCO3	**14.5**	mg/L	5.0	5.0	1		02/23/24 19:27		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.2**	mg/L	1.0	0.60	1		02/23/24 17:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 17:58	16984-48-8	
Sulfate	**4.6**	mg/L	1.0	0.50	1		02/23/24 17:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-18I **Lab ID: 92714723010** Collected: 02/20/24 12:48 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.95**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:24	7440-09-7	
Sodium	**12.6**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:24	7440-23-5	
Calcium	**5.6**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:24	7440-70-2	
Magnesium	**3.1**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:24	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 16:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 16:56	7440-38-2	
Barium	**0.020**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 16:56	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 16:56	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 16:56	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 16:56	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 16:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 16:56	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 16:56	7439-92-1	
Lithium	**0.0038J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 16:56	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 16:56	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 16:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 16:56	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:23	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**129**	mg/L	25.0	25.0	1		02/26/24 15:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**36.4**	mg/L	5.0	5.0	1		02/23/24 19:48		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:48		
Alkalinity, Total as CaCO3	**36.4**	mg/L	5.0	5.0	1		02/23/24 19:48		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.6**	mg/L	1.0	0.60	1		02/23/24 18:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 18:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 18:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-EB-1 **Lab ID: 92714723011** Collected: 02/20/24 17:15 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:26	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:26	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:26	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:26	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:01	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:01	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:01	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:01	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:01	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:01	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:01	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:01	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:01	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:26	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**64.0**	mg/L	25.0	25.0	1		02/26/24 15:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:54		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:54		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/23/24 19:54		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/23/24 11:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 11:47	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 11:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-FB-1 **Lab ID: 92714723012** Collected: 02/20/24 15:35 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:29	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:29	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:29	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:29	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:05	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:05	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:28	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/26/24 15:47		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:58		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 19:58		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/23/24 19:58		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/23/24 12:02	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 12:02	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 12:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-EB-2 **Lab ID: 92714723013** Collected: 02/20/24 15:55 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:32	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:32	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:32	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:32	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:09	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:09	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:09	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:09	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:09	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:09	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:09	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:09	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:09	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:09	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:31	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/26/24 15:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:03		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:03		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/23/24 20:03		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/23/24 12:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 12:17	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 12:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-FB-2 **Lab ID: 92714723014** Collected: 02/20/24 17:00 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	ND	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:35	7440-09-7	
Sodium	ND	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:35	7440-23-5	
Calcium	ND	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:35	7440-70-2	
Magnesium	ND	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:35	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:13	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:13	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:13	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:13	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:13	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:13	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:13	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:13	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:13	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:34	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		02/26/24 15:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:07		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:07		
Alkalinity, Total as CaCO3	ND	mg/L	5.0	5.0	1		02/23/24 20:07		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		02/23/24 12:31	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 12:31	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		02/23/24 12:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-30I **Lab ID: 92714723015** Collected: 02/20/24 16:25 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.55**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:37	7440-09-7	
Sodium	**5.8**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:37	7440-23-5	
Calcium	**1.3**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:37	7440-70-2	
Magnesium	**0.89**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:37	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:17	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:17	7440-38-2	
Barium	**0.0064**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:17	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:17	7440-47-3	
Cobalt	**0.0029J**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:36	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**55.0**	mg/L	25.0	25.0	1		02/26/24 15:48		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**15.7**	mg/L	5.0	5.0	1		02/23/24 20:11		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:11		
Alkalinity, Total as CaCO3	**15.7**	mg/L	5.0	5.0	1		02/23/24 20:11		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.4**	mg/L	1.0	0.60	1		02/23/24 19:12	16887-00-6	
Fluoride	**0.051J**	mg/L	0.10	0.050	1		02/23/24 19:12	16984-48-8	
Sulfate	**0.69J**	mg/L	1.0	0.50	1		02/23/24 19:12	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-3I **Lab ID: 92714723016** Collected: 02/20/24 13:50 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.0**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:45	7440-09-7	
Sodium	**9.2**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:45	7440-23-5	
Calcium	**23.7**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:45	7440-70-2	
Magnesium	**5.3**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:47	7440-36-0	
Arsenic	**0.0013J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:47	7440-38-2	
Barium	**0.0032J**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:47	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:47	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:47	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:47	7439-92-1	
Lithium	**0.020J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:47	7439-93-2	
Molybdenum	**0.0089J**	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:39	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**220**	mg/L	25.0	25.0	1		02/26/24 15:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**90.2**	mg/L	5.0	5.0	1		02/23/24 20:17		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:17		
Alkalinity, Total as CaCO3	**90.2**	mg/L	5.0	5.0	1		02/23/24 20:17		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/23/24 20:26	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		02/23/24 20:26	16984-48-8	
Sulfate	**13.8**	mg/L	1.0	0.50	1		02/23/24 20:26	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-3D **Lab ID: 92714723017** Collected: 02/20/24 11:35 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.5**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:48	7440-09-7	
Sodium	**10.0**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:48	7440-23-5	
Calcium	**30.7**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:48	7440-70-2	
Magnesium	**3.7**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:48	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 17:51	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 17:51	7440-38-2	
Barium	**0.0045J**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 17:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 17:51	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 17:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 17:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 17:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 17:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 17:51	7439-92-1	
Lithium	**0.021J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 17:51	7439-93-2	
Molybdenum	**0.013**	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 17:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 17:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 17:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:41	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**294**	mg/L	25.0	25.0	1		02/26/24 15:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**108**	mg/L	5.0	5.0	1		02/23/24 20:25		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:25		
Alkalinity, Total as CaCO3	**108**	mg/L	5.0	5.0	1		02/23/24 20:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		02/23/24 20:40	16887-00-6	
Fluoride	**0.45**	mg/L	0.10	0.050	1		02/23/24 20:40	16984-48-8	
Sulfate	**7.0**	mg/L	1.0	0.50	1		02/23/24 20:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-39 **Lab ID: 92714723019** Collected: 02/20/24 13:58 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.8**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 10:54	7440-09-7	
Sodium	**25.2**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 10:54	7440-23-5	
Calcium	**16.9**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 10:54	7440-70-2	
Magnesium	**21.2**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 10:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 18:00	7440-36-0	
Arsenic	**0.0020J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 18:00	7440-38-2	
Barium	**0.029**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 18:00	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 18:00	7440-41-7	
Boron	**0.12**	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 18:00	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 18:00	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 18:00	7440-47-3	
Cobalt	**0.00073J**	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 18:00	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 18:00	7439-92-1	
Lithium	**0.0059J**	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 18:00	7439-93-2	
Molybdenum	**0.0058J**	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 18:00	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 18:00	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 18:00	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**233**	mg/L	25.0	25.0	1		02/26/24 15:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**183**	mg/L	5.0	5.0	1		02/23/24 20:49		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 20:49		
Alkalinity, Total as CaCO3	**183**	mg/L	5.0	5.0	1		02/23/24 20:49		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.6**	mg/L	1.0	0.60	1		02/23/24 21:10	16887-00-6	
Fluoride	**0.063J**	mg/L	0.10	0.050	1		02/23/24 21:10	16984-48-8	
Sulfate	**8.6**	mg/L	1.0	0.50	1		02/23/24 21:10	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-40 **Lab ID: 92714723020** Collected: 02/20/24 15:10 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.0**	mg/L	0.50	0.15	1	02/28/24 14:46	03/02/24 11:39	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	02/28/24 14:46	03/02/24 11:39	7440-23-5	
Calcium	**5.6**	mg/L	1.0	0.12	1	02/28/24 14:46	03/02/24 11:39	7440-70-2	
Magnesium	**3.2**	mg/L	0.050	0.012	1	02/28/24 14:46	03/02/24 11:39	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 12:45	03/01/24 18:04	7440-36-0	
Arsenic	**0.0012J**	mg/L	0.0050	0.00084	1	02/28/24 12:45	03/01/24 18:04	7440-38-2	
Barium	**0.033**	mg/L	0.0050	0.00047	1	02/28/24 12:45	03/01/24 18:04	7440-39-3	
Beryllium	**0.00025J**	mg/L	0.00050	0.000094	1	02/28/24 12:45	03/01/24 18:04	7440-41-7	
Boron	**0.056**	mg/L	0.040	0.012	1	02/28/24 12:45	03/01/24 18:04	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 12:45	03/01/24 18:04	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 12:45	03/01/24 18:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 12:45	03/01/24 18:04	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 12:45	03/01/24 18:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 12:45	03/01/24 18:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/28/24 12:45	03/01/24 18:04	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 12:45	03/01/24 18:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 12:45	03/01/24 18:04	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00032**	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:52	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**109**	mg/L	25.0	25.0	1		02/26/24 15:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**24.7**	mg/L	5.0	5.0	1		02/23/24 21:04		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 21:04		
Alkalinity, Total as CaCO3	**24.7**	mg/L	5.0	5.0	1		02/23/24 21:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.7**	mg/L	1.0	0.60	1		02/23/24 21:25	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 21:25	16984-48-8	
Sulfate	**17.2**	mg/L	1.0	0.50	1		02/23/24 21:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-1I **Lab ID: 92714723021** Collected: 02/20/24 12:02 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**2.2**	mg/L	0.50	0.15	1	02/28/24 18:17	03/02/24 08:45	7440-09-7	
Sodium	**5.5**	mg/L	1.0	0.58	1	02/28/24 18:17	03/02/24 08:45	7440-23-5	
Calcium	**2.2**	mg/L	1.0	0.12	1	02/28/24 18:17	03/02/24 08:45	7440-70-2	
Magnesium	**1.0**	mg/L	0.050	0.012	1	02/28/24 18:17	03/02/24 08:45	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/28/24 13:54	03/01/24 18:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 13:54	03/01/24 18:29	7440-38-2	
Barium	**0.0040J**	mg/L	0.0050	0.00047	1	02/28/24 13:54	03/01/24 18:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 13:54	03/01/24 18:29	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.012	1	02/28/24 13:54	03/01/24 18:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 13:54	03/01/24 18:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 13:54	03/01/24 18:29	7440-47-3	
Cobalt	**0.0018J**	mg/L	0.0050	0.00032	1	02/28/24 13:54	03/01/24 18:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 13:54	03/01/24 18:29	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/28/24 13:54	03/01/24 18:29	7439-93-2	
Molybdenum	**0.030**	mg/L	0.010	0.00062	1	02/28/24 13:54	03/01/24 18:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 13:54	03/01/24 18:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 13:54	03/01/24 18:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:55	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**59.0**	mg/L	25.0	25.0	1		02/26/24 15:50		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**17.9**	mg/L	5.0	5.0	1		02/23/24 21:23		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/23/24 21:23		
Alkalinity, Total as CaCO3	**17.9**	mg/L	5.0	5.0	1		02/23/24 21:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.2**	mg/L	1.0	0.60	1		02/23/24 21:40	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/23/24 21:40	16984-48-8	
Sulfate	**4.3**	mg/L	1.0	0.50	1		02/23/24 21:40	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-1D **Lab ID: 92714723022** Collected: 02/20/24 13:24 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**3.8**	mg/L	0.50	0.15	1	02/28/24 18:17	03/02/24 08:54	7440-09-7	
Sodium	**10**	mg/L	1.0	0.58	1	02/28/24 18:17	03/02/24 08:54	7440-23-5	
Calcium	**15.3**	mg/L	1.0	0.12	1	02/28/24 18:17	03/02/24 08:54	7440-70-2	
Magnesium	**2.0**	mg/L	0.050	0.012	1	02/28/24 18:17	03/02/24 08:54	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.0023J**	mg/L	0.0030	0.00054	1	02/28/24 13:54	03/01/24 18:45	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/28/24 13:54	03/01/24 18:45	7440-38-2	
Barium	**0.0062**	mg/L	0.0050	0.00047	1	02/28/24 13:54	03/01/24 18:45	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 13:54	03/01/24 18:45	7440-41-7	
Boron	**0.015J**	mg/L	0.040	0.012	1	02/28/24 13:54	03/01/24 18:45	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 13:54	03/01/24 18:45	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 13:54	03/01/24 18:45	7440-47-3	
Cobalt	**0.00055J**	mg/L	0.0050	0.00032	1	02/28/24 13:54	03/01/24 18:45	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 13:54	03/01/24 18:45	7439-92-1	
Lithium	**0.0071J**	mg/L	0.030	0.0016	1	02/28/24 13:54	03/01/24 18:45	7439-93-2	
Molybdenum	**0.0098J**	mg/L	0.010	0.00062	1	02/28/24 13:54	03/01/24 18:45	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 13:54	03/01/24 18:45	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 13:54	03/01/24 18:45	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 12:00	03/07/24 15:57	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**130**	mg/L	25.0	25.0	1		02/26/24 17:48		D6
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**61.2**	mg/L	5.0	5.0	1		02/27/24 17:28		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/27/24 17:28		
Alkalinity, Total as CaCO3	**61.2**	mg/L	5.0	5.0	1		02/27/24 17:28		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.0**	mg/L	1.0	0.60	1		02/23/24 21:54	16887-00-6	
Fluoride	**0.086J**	mg/L	0.10	0.050	1		02/23/24 21:54	16984-48-8	
Sulfate	**9.7**	mg/L	1.0	0.50	1		02/23/24 21:54	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-2I **Lab ID: 92714723023** Collected: 02/20/24 16:02 Received: 02/21/24 15:12 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**5.6**	mg/L	0.50	0.15	1	02/28/24 18:17	03/02/24 08:56	7440-09-7	
Sodium	**9.4**	mg/L	1.0	0.58	1	02/28/24 18:17	03/02/24 08:56	7440-23-5	
Calcium	**28.2**	mg/L	1.0	0.12	1	02/28/24 18:17	03/02/24 08:56	7440-70-2	
Magnesium	**4.4**	mg/L	0.050	0.012	1	02/28/24 18:17	03/02/24 08:56	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00067J**	mg/L	0.0030	0.00054	1	02/28/24 13:54	03/01/24 18:49	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.00084	1	02/28/24 13:54	03/01/24 18:49	7440-38-2	
Barium	**0.0044J**	mg/L	0.0050	0.00047	1	02/28/24 13:54	03/01/24 18:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/28/24 13:54	03/01/24 18:49	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	02/28/24 13:54	03/01/24 18:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/28/24 13:54	03/01/24 18:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/28/24 13:54	03/01/24 18:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/28/24 13:54	03/01/24 18:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/28/24 13:54	03/01/24 18:49	7439-92-1	
Lithium	**0.0021J**	mg/L	0.030	0.0016	1	02/28/24 13:54	03/01/24 18:49	7439-93-2	
Molybdenum	**0.0076J**	mg/L	0.010	0.00062	1	02/28/24 13:54	03/01/24 18:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/28/24 13:54	03/01/24 18:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/28/24 13:54	03/01/24 18:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 07:49	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**159**	mg/L	25.0	25.0	1		02/26/24 17:49		
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**84.2**	mg/L	5.0	5.0	1		02/27/24 17:35		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		02/27/24 17:35		
Alkalinity, Total as CaCO3	**84.2**	mg/L	5.0	5.0	1		02/27/24 17:35		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.96J**	mg/L	1.0	0.60	1		02/23/24 22:09	16887-00-6	
Fluoride	**0.10**	mg/L	0.10	0.050	1		02/23/24 22:09	16984-48-8	
Sulfate	**23.1**	mg/L	1.0	0.50	1		02/23/24 22:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-14S **Lab ID: 92714723024** Collected: 02/23/24 11:00 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.89**	mg/L	0.50	0.15	1	02/29/24 14:43	03/04/24 18:20	7440-09-7	
Sodium	**10.1**	mg/L	1.0	0.58	1	02/29/24 14:43	03/04/24 18:20	7440-23-5	
Calcium	**1.6**	mg/L	1.0	0.12	1	02/29/24 14:43	03/04/24 18:20	7440-70-2	
Magnesium	**1.8**	mg/L	0.050	0.012	1	02/29/24 14:43	03/04/24 18:20	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 15:59	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 15:59	7440-38-2	
Barium	**0.0096**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 15:59	7440-39-3	
Beryllium	**0.00024J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 15:59	7440-41-7	
Boron	**0.037J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 15:59	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 15:59	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 15:59	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 15:59	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 15:59	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 15:59	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 15:59	7439-98-7	
Selenium	**0.0010J**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 15:59	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 15:59	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 07:51	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.4**	mg/L	5.0	5.0	1		03/05/24 17:55		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 17:55		
Alkalinity, Total as CaCO3	**14.4**	mg/L	5.0	5.0	1		03/05/24 17:55		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**64.0**	mg/L	25.0	25.0	1		02/27/24 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		02/27/24 04:05	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 04:05	16984-48-8	
Sulfate	**7.1**	mg/L	1.0	0.50	1		02/27/24 04:05	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-YGWA-18S **Lab ID: 92714723025** Collected: 02/23/24 09:25 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.62**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 15:44	7440-09-7	B
Calcium	**0.84J**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 15:44	7440-70-2	
Magnesium	**1.0**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 15:44	7439-95-4	
Sodium	**8.6**	mg/L	1.0	0.58	1	02/29/24 15:04	03/05/24 18:28	7440-23-5	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 16:03	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 16:03	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 16:03	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 16:03	7440-41-7	
Boron	**0.018J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 16:03	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 16:03	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 16:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 16:03	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 16:03	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 16:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 16:03	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 16:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 16:03	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 07:59	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.7**	mg/L	5.0	5.0	1		03/05/24 18:01		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 18:01		
Alkalinity, Total as CaCO3	**8.7**	mg/L	5.0	5.0	1		03/05/24 18:01		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**52.0**	mg/L	25.0	25.0	1		02/27/24 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.6**	mg/L	1.0	0.60	1		02/27/24 04:19	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 04:19	16984-48-8	
Sulfate	**0.79J**	mg/L	1.0	0.50	1		02/27/24 04:19	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-FD-1 **Lab ID: 92714723026** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.90**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 15:53	7440-09-7	B
Calcium	**1.6**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 15:53	7440-70-2	
Magnesium	**1.7**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 15:53	7439-95-4	
Sodium	**10.4**	mg/L	1.0	0.58	1	02/29/24 15:04	03/05/24 18:43	7440-23-5	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 16:06	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 16:06	7440-38-2	
Barium	**0.0093**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 16:06	7440-39-3	
Beryllium	**0.00024J**	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 16:06	7440-41-7	
Boron	**0.027J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 16:06	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 16:06	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 16:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 16:06	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 16:06	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 16:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 16:06	7439-98-7	
Selenium	**0.0011J**	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 16:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 16:06	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 08:02	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**14.6**	mg/L	5.0	5.0	1		03/05/24 18:06		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 18:06		
Alkalinity, Total as CaCO3	**14.6**	mg/L	5.0	5.0	1		03/05/24 18:06		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**73.0**	mg/L	25.0	25.0	1		02/27/24 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.7**	mg/L	1.0	0.60	1		02/27/24 05:02	16887-00-6	
Fluoride	**0.055J**	mg/L	0.10	0.050	1		02/27/24 05:02	16984-48-8	
Sulfate	**7.0**	mg/L	1.0	0.50	1		02/27/24 05:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Sample: YAT-UGRD-FD-2 **Lab ID: 92714723027** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Potassium	**0.63**	mg/L	0.50	0.15	1	02/29/24 15:04	03/04/24 16:01	7440-09-7	B
Sodium	**9.0**	mg/L	1.0	0.58	1	02/29/24 15:04	03/04/24 16:01	7440-23-5	
Calcium	**0.87J**	mg/L	1.0	0.12	1	02/29/24 15:04	03/04/24 16:01	7440-70-2	
Magnesium	**1.0**	mg/L	0.050	0.012	1	02/29/24 15:04	03/04/24 16:01	7439-95-4	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	02/29/24 09:00	03/05/24 16:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	02/29/24 09:00	03/05/24 16:10	7440-38-2	
Barium	**0.013**	mg/L	0.0050	0.00047	1	02/29/24 09:00	03/05/24 16:10	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	02/29/24 09:00	03/05/24 16:10	7440-41-7	
Boron	**0.012J**	mg/L	0.040	0.012	1	02/29/24 09:00	03/05/24 16:10	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	02/29/24 09:00	03/05/24 16:10	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	02/29/24 09:00	03/05/24 16:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	02/29/24 09:00	03/05/24 16:10	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	02/29/24 09:00	03/05/24 16:10	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	02/29/24 09:00	03/05/24 16:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	02/29/24 09:00	03/05/24 16:10	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	02/29/24 09:00	03/05/24 16:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	02/29/24 09:00	03/05/24 16:10	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	03/07/24 13:00	03/08/24 08:05	7439-97-6	
2320B Alkalinity	Analytical Method: SM 2320B-2011 Pace Analytical Services - Asheville								
Alkalinity,Bicarbonate (CaCO3)	**8.8**	mg/L	5.0	5.0	1		03/05/24 18:12		
Alkalinity,Carbonate (CaCO3)	ND	mg/L	5.0	5.0	1		03/05/24 18:12		
Alkalinity, Total as CaCO3	**8.8**	mg/L	5.0	5.0	1		03/05/24 18:12		
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Asheville								
Total Dissolved Solids	**53.0**	mg/L	25.0	25.0	1		02/27/24 11:04		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**6.7**	mg/L	1.0	0.60	1		02/27/24 05:16	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		02/27/24 05:16	16984-48-8	
Sulfate	**0.79J**	mg/L	1.0	0.50	1		02/27/24 05:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835565
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007

METHOD BLANK: 4316637 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/01/24 18:56	
Magnesium	mg/L	ND	0.050	0.012	03/01/24 18:56	
Potassium	mg/L	ND	0.50	0.15	03/01/24 18:56	
Sodium	mg/L	ND	1.0	0.58	03/01/24 18:56	

LABORATORY CONTROL SAMPLE: 4316638

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	0.98	98	80-120	
Sodium	mg/L	1	1.0	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316639 4316640

Parameter	Units	92714171017 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	74.2	1	1	75.9	73.0	171	-120	75-125	4	20	M1
Magnesium	mg/L	35.5	1	1	37.1	35.6	160	10	75-125	4	20	M1
Potassium	mg/L	1.5	1	1	2.5	2.3	96	85	75-125	5	20	
Sodium	mg/L	41.2	1	1	42.6	40.9	137	-39	75-125	4	20	M1

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835581
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

METHOD BLANK: 4316732 Matrix: Water
Associated Lab Samples: 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/02/24 10:00	
Magnesium	mg/L	ND	0.050	0.012	03/02/24 10:00	
Potassium	mg/L	ND	0.50	0.15	03/02/24 10:00	
Sodium	mg/L	ND	1.0	0.58	03/02/24 10:00	

LABORATORY CONTROL SAMPLE: 4316733

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.0	104	80-120	
Potassium	mg/L	1	0.96	96	80-120	
Sodium	mg/L	1	1.1	112	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316734 4316735

Parameter	Units	92714723008 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	3.2	1	1	4.3	4.3	116	109	75-125	2	20	
Magnesium	mg/L	1.1	1	1	2.1	2.1	107	103	75-125	2	20	
Potassium	mg/L	0.36J	1	1	1.4	1.3	100	97	75-125	2	20	
Sodium	mg/L	15.0	1	1	16.1	15.8	111	81	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835638
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723021, 92714723022, 92714723023

METHOD BLANK: 4317188 Matrix: Water
Associated Lab Samples: 92714723021, 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/02/24 08:40	
Magnesium	mg/L	ND	0.050	0.012	03/02/24 08:40	
Potassium	mg/L	ND	0.50	0.15	03/02/24 08:40	
Sodium	mg/L	ND	1.0	0.58	03/02/24 08:40	

LABORATORY CONTROL SAMPLE: 4317189

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.99J	99	80-120	
Magnesium	mg/L	1	1.0	100	80-120	
Potassium	mg/L	1	0.91	91	80-120	
Sodium	mg/L	1	0.97J	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317190 4317191

Parameter	Units	92714723021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	2.2	1	1	3.2	3.2	100	101	75-125	0	20	
Magnesium	mg/L	1.0	1	1	2.0	2.1	100	104	75-125	2	20	
Potassium	mg/L	2.2	1	1	3.1	3.2	97	106	75-125	3	20	
Sodium	mg/L	5.5	1	1	6.4	6.5	92	106	75-125	2	20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835873
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723024

METHOD BLANK: 4318271 Matrix: Water
Associated Lab Samples: 92714723024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 17:06	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 17:06	
Potassium	mg/L	ND	0.50	0.15	03/04/24 17:06	
Sodium	mg/L	ND	1.0	0.58	03/04/24 17:06	

LABORATORY CONTROL SAMPLE: 4318272

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	
Magnesium	mg/L	1	1.1	110	80-120	
Potassium	mg/L	1	1.1	111	80-120	
Sodium	mg/L	1	1.2	117	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318273 4318274

Parameter	Units	92715157005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	0.78J	1	1	1.8	1.8	100	102	75-125	1	20	
Magnesium	mg/L	0.34	1	1	1.4	1.4	106	107	75-125	1	20	
Potassium	mg/L	0.30J	1	1	1.3	1.3	99	103	75-125	3	20	
Sodium	mg/L	1.0	1	1	2.0	2.0	97	101	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835886
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723025, 92714723026, 92714723027

METHOD BLANK: 4318385 Matrix: Water
Associated Lab Samples: 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	03/04/24 15:38	
Magnesium	mg/L	ND	0.050	0.012	03/04/24 15:38	
Potassium	mg/L	0.19J	0.50	0.15	03/04/24 15:38	
Sodium	mg/L	ND	1.0	0.58	03/05/24 18:18	

LABORATORY CONTROL SAMPLE: 4318386

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	103	80-120	
Magnesium	mg/L	1	1.1	107	80-120	
Potassium	mg/L	1	1.1	114	80-120	
Sodium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4318387 4318388

Parameter	Units	92714723025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	0.84J	1	1	1.9	1.8	109	99	75-125	5	20	
Magnesium	mg/L	1.0	1	1	2.1	2.0	113	103	75-125	5	20	
Potassium	mg/L	0.62	1	1	1.7	1.6	106	95	75-125	7	20	
Sodium	mg/L	8.6	1	1	10.3	9.9	169	129	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835521
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

METHOD BLANK: 4316395
Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/01/24 15:45	
Arsenic	mg/L	ND	0.0050	0.00084	03/01/24 15:45	
Barium	mg/L	ND	0.0050	0.00047	03/01/24 15:45	
Beryllium	mg/L	ND	0.00050	0.000094	03/01/24 15:45	
Boron	mg/L	ND	0.040	0.012	03/01/24 15:45	
Cadmium	mg/L	ND	0.00050	0.00010	03/01/24 15:45	
Chromium	mg/L	ND	0.0050	0.0019	03/01/24 15:45	
Cobalt	mg/L	ND	0.0050	0.00032	03/01/24 15:45	
Copper	mg/L	ND	0.0050	0.00043	03/01/24 15:45	
Lead	mg/L	ND	0.0010	0.00016	03/01/24 15:45	
Lithium	mg/L	ND	0.030	0.0016	03/01/24 15:45	
Molybdenum	mg/L	ND	0.010	0.00062	03/01/24 15:45	
Nickel	mg/L	ND	0.0050	0.0021	03/01/24 15:45	
Selenium	mg/L	ND	0.0050	0.00096	03/01/24 15:45	
Silver	mg/L	ND	0.0050	0.00031	03/01/24 15:45	
Thallium	mg/L	ND	0.0010	0.00038	03/01/24 15:45	
Vanadium	mg/L	ND	0.010	0.00075	03/01/24 15:45	
Zinc	mg/L	ND	0.010	0.0024	03/01/24 15:45	

LABORATORY CONTROL SAMPLE: 4316396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.11	105	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Copper	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Nickel	mg/L	0.1	0.099	99	80-120	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

LABORATORY CONTROL SAMPLE: 4316396

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Selenium	mg/L	0.1	0.11	105	80-120	
Silver	mg/L	0.1	0.10	105	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	
Vanadium	mg/L	0.1	0.10	102	80-120	
Zinc	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316397 4316398

Parameter	Units	92714723001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	106	107	75-125	1	20	
Barium	mg/L	0.031	0.1	0.1	0.14	0.14	105	106	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	
Boron	mg/L	0.023J	1	1	0.97	1.0	94	98	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Cobalt	mg/L	0.0011J	0.1	0.1	0.10	0.10	101	101	75-125	0	20	
Copper	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lithium	mg/L	0.0036J	0.1	0.1	0.098	0.10	95	97	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	0	20	
Nickel	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	103	104	75-125	0	20	
Silver	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.094	91	94	75-125	3	20	
Vanadium	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Zinc	mg/L	ND	0.1	0.1	0.11	0.10	104	102	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835532
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723021, 92714723022, 92714723023

METHOD BLANK: 4316486 Matrix: Water
Associated Lab Samples: 92714723021, 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/01/24 18:20	
Arsenic	mg/L	ND	0.0050	0.00084	03/01/24 18:20	
Barium	mg/L	ND	0.0050	0.00047	03/01/24 18:20	
Beryllium	mg/L	ND	0.00050	0.000094	03/01/24 18:20	
Boron	mg/L	ND	0.040	0.012	03/01/24 18:20	
Cadmium	mg/L	ND	0.00050	0.00010	03/01/24 18:20	
Chromium	mg/L	ND	0.0050	0.0019	03/01/24 18:20	
Cobalt	mg/L	ND	0.0050	0.00032	03/01/24 18:20	
Lead	mg/L	ND	0.0010	0.00016	03/01/24 18:20	
Lithium	mg/L	ND	0.030	0.0016	03/01/24 18:20	
Molybdenum	mg/L	ND	0.010	0.00062	03/01/24 18:20	
Selenium	mg/L	ND	0.0050	0.00096	03/01/24 18:20	
Thallium	mg/L	ND	0.0010	0.00038	03/01/24 18:20	

LABORATORY CONTROL SAMPLE: 4316487

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	109	80-120	
Arsenic	mg/L	0.1	0.11	110	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.11	108	80-120	
Boron	mg/L	1	1.0	104	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	104	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316488 4316489

Parameter	Units	92714723021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	108	106	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.11	0.11	108	105	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4316488 4316489

Parameter	Units	92714723021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.0040J	0.1	0.1	0.11	0.11	105	102	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20	
Boron	mg/L	0.014J	1	1	1.0	0.99	98	98	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.095	97	94	75-125	2	20	
Cobalt	mg/L	0.0018J	0.1	0.1	0.098	0.093	96	92	75-125	5	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	3	20	
Molybdenum	mg/L	0.030	0.1	0.1	0.13	0.13	103	98	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835671
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4317361 Matrix: Water
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	03/05/24 14:25	
Arsenic	mg/L	ND	0.0050	0.00084	03/05/24 14:25	
Barium	mg/L	ND	0.0050	0.00047	03/05/24 14:25	
Beryllium	mg/L	ND	0.00050	0.000094	03/05/24 14:25	
Boron	mg/L	ND	0.040	0.012	03/05/24 14:25	
Cadmium	mg/L	ND	0.00050	0.00010	03/05/24 14:25	
Chromium	mg/L	ND	0.0050	0.0019	03/05/24 14:25	
Cobalt	mg/L	ND	0.0050	0.00032	03/05/24 14:25	
Lead	mg/L	ND	0.0010	0.00016	03/05/24 14:25	
Lithium	mg/L	ND	0.030	0.0016	03/05/24 14:25	
Molybdenum	mg/L	ND	0.010	0.00062	03/05/24 14:25	
Selenium	mg/L	ND	0.0050	0.00096	03/05/24 14:25	
Thallium	mg/L	ND	0.0010	0.00038	03/05/24 14:25	

LABORATORY CONTROL SAMPLE: 4317362

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	0.10	101	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.11	105	80-120	
Boron	mg/L	1	1.0	103	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.10	100	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

Parameter	Units	92715031012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20	
Arsenic	mg/L	0.0011J	0.1	0.1	0.11	0.11	104	107	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4317363 4317364

Parameter	Units	92715031012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.035	0.1	0.1	0.14	0.14	101	104	75-125	2	20	
Beryllium	mg/L	0.00013J	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Boron	mg/L	6.7	1	1	7.6	7.6	89	87	75-125	0	20	
Cadmium	mg/L	0.00022J	0.1	0.1	0.10	0.10	102	104	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	105	107	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20	
Lead	mg/L	ND	0.1	0.1	0.094	0.095	94	95	75-125	1	20	
Lithium	mg/L	0.014J	0.1	0.1	0.11	0.11	92	94	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	104	75-125	4	20	
Selenium	mg/L	0.053	0.1	0.1	0.16	0.16	102	105	75-125	2	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.095	93	95	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 837274
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022

METHOD BLANK: 4325320 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/07/24 14:39	

LABORATORY CONTROL SAMPLE: 4325321

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4325322 4325323

Parameter	Units	92714723002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0026	90	101	75-125	11	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 837279 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723023, 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4325334 Matrix: Water
Associated Lab Samples: 92714723023, 92714723024, 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	03/07/24 16:06	

LABORATORY CONTROL SAMPLE: 4325335

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: 4325336 4325337

Parameter	Units	92714726001 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	0.0026	0.0023	103	93	75-125	10	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834938
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723001

METHOD BLANK: 4313586 Matrix: Water
Associated Lab Samples: 92714723001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/26/24 14:42	

LABORATORY CONTROL SAMPLE: 4313587

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	379	95	80-120	

SAMPLE DUPLICATE: 4313588

Parameter	Units	92714128003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	73.0	80.0	9	10	

SAMPLE DUPLICATE: 4313589

Parameter	Units	92715006001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	107	103	4	10	

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834943
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

METHOD BLANK: 4313607 Matrix: Water
Associated Lab Samples: 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/26/24 15:44	

LABORATORY CONTROL SAMPLE: 4313608

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	369	92	80-120	

SAMPLE DUPLICATE: 4313609

Parameter	Units	92714723002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	214	199	7	10	

SAMPLE DUPLICATE: 4313610

Parameter	Units	92714723012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	53.0		10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835037
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92714723022, 92714723023

METHOD BLANK: 4314052 Matrix: Water
Associated Lab Samples: 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/26/24 17:48	

LABORATORY CONTROL SAMPLE: 4314053

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	398	100	80-120	

SAMPLE DUPLICATE: 4314054

Parameter	Units	92714723022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	130	204	44	10	D6

SAMPLE DUPLICATE: 4314055

Parameter	Units	92715006008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	301	315	5	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834611
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723001, 92714723002

METHOD BLANK: 4312116 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/23/24 13:34	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/23/24 13:34	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/23/24 13:34	

LABORATORY CONTROL SAMPLE: 4312117

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

LABORATORY CONTROL SAMPLE: 4312118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.3	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312119 4312120

Parameter	Units	92714723001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	36.4	50	50	87.1	86.4	101	100	80-120	1	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312121 4312122

Parameter	Units	92714723002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	73.5	50	50	120	121	94	95	80-120	1	25	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834663
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

METHOD BLANK: 4312306 Matrix: Water
Associated Lab Samples: 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014, 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/23/24 18:26	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/23/24 18:26	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/23/24 18:26	

LABORATORY CONTROL SAMPLE: 4312307

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.8	104	80-120	

LABORATORY CONTROL SAMPLE: 4312308

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	52.0	104	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312309 4312310

Parameter	Units	92714723020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	24.7	50	50	75.3	72.2	101	95	80-120	4	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4312311 4312312

Parameter	Units	92714723021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	17.9	50	50	66.6	67.4	97	99	80-120	1	25	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835154
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723022, 92714723023

METHOD BLANK: 4314543 Matrix: Water
Associated Lab Samples: 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	02/27/24 14:12	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	02/27/24 14:12	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	02/27/24 14:12	

LABORATORY CONTROL SAMPLE: 4314544

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	51.4	103	80-120	

LABORATORY CONTROL SAMPLE: 4314545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.5	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314546 4314547

Parameter	Units	92715006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	75.0	50	50	128	127	105	105	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314548 4314549

Parameter	Units	92715006002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	222	50	50	269	276	94	108	80-120	3	25	

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 836772
QC Batch Method: SM 2320B-2011
Analysis Method: SM 2320B-2011
Analysis Description: 2320B Alkalinity
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4322081 Matrix: Water
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Alkalinity, Total as CaCO3	mg/L	ND	5.0	5.0	03/05/24 16:25	
Alkalinity,Bicarbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/24 16:25	
Alkalinity,Carbonate (CaCO3)	mg/L	ND	5.0	5.0	03/05/24 16:25	

LABORATORY CONTROL SAMPLE: 4322082

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.8	102	80-120	

LABORATORY CONTROL SAMPLE: 4322083

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO3	mg/L	50	50.3	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4322084 4322085

Parameter	Units	92715031014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	ND	50	50	51.2	51.1	102	102	80-120	0	25	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4322086 4322087

Parameter	Units	92715031015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Alkalinity, Total as CaCO3	mg/L	35.5	50	50	69.4	70.2	68	69	80-120	1	25	M1

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835155 | Analysis Method: SM 2540C-2015
QC Batch Method: SM 2540C-2015 | Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

METHOD BLANK: 4314552 Matrix: Water
Associated Lab Samples: 92714723024, 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	02/27/24 11:02	

LABORATORY CONTROL SAMPLE: 4314553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	250	254	101	90-110	

SAMPLE DUPLICATE: 4314554

Parameter	Units	92715255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	160	164	2	25	

SAMPLE DUPLICATE: 4314555

Parameter	Units	92715247002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	802	770	4	25	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834454
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014

METHOD BLANK: 4311474 Matrix: Water
Associated Lab Samples: 92714723001, 92714723002, 92714723003, 92714723004, 92714723005, 92714723006, 92714723007, 92714723008, 92714723010, 92714723011, 92714723012, 92714723013, 92714723014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/23/24 11:17	
Fluoride	mg/L	ND	0.10	0.050	02/23/24 11:17	
Sulfate	mg/L	ND	1.0	0.50	02/23/24 11:17	

LABORATORY CONTROL SAMPLE: 4311475

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.7	106	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311476 4311477

Parameter	Units	92714957014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	46.5	50	50	96.7	98.2	100	103	90-110	2	10	
Fluoride	mg/L	0.055J	2.5	2.5	2.7	2.8	107	109	90-110	2	10	
Sulfate	mg/L	0.83J	50	50	51.5	52.9	101	104	90-110	3	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311478 4311479

Parameter	Units	92714723005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.2	50	50	53.7	54.0	101	102	90-110	1	10	
Fluoride	mg/L	0.076J	2.5	2.5	2.4	2.4	93	95	90-110	1	10	
Sulfate	mg/L	5.1	50	50	55.7	56.1	101	102	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 834455
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022, 92714723023

METHOD BLANK: 4311480 Matrix: Water
Associated Lab Samples: 92714723015, 92714723016, 92714723017, 92714723019, 92714723020, 92714723021, 92714723022, 92714723023

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/23/24 18:42	
Fluoride	mg/L	ND	0.10	0.050	02/23/24 18:42	
Sulfate	mg/L	ND	1.0	0.50	02/23/24 18:42	

LABORATORY CONTROL SAMPLE: 4311481

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.5	101	90-110	
Sulfate	mg/L	50	51.4	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311482 4311483

Parameter	Units	92714723015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.4	50	50	52.2	52.3	101	102	90-110	0	10	
Fluoride	mg/L	0.051J	2.5	2.5	2.5	2.5	98	99	90-110	0	10	
Sulfate	mg/L	0.69J	50	50	51.4	51.4	101	101	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4311484 4311485

Parameter	Units	92714726002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	1.6	50	50	52.5	53.3	102	103	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	105	106	90-110	1	10	
Sulfate	mg/L	916	50	50	968	975	106	118	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835036
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92714723024

METHOD BLANK: 4314044 Matrix: Water
Associated Lab Samples: 92714723024

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/26/24 18:32	
Fluoride	mg/L	ND	0.10	0.050	02/26/24 18:32	
Sulfate	mg/L	ND	1.0	0.50	02/26/24 18:32	

LABORATORY CONTROL SAMPLE: 4314045

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.5	101	90-110	
Fluoride	mg/L	2.5	2.6	102	90-110	
Sulfate	mg/L	50	50.7	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314046 4314047

Parameter	Units	92712009007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.9	50	50	55.6	56.1	101	103	90-110	1	10	
Fluoride	mg/L	0.36	2.5	2.5	2.9	2.9	101	101	90-110	0	10	
Sulfate	mg/L	4.6	50	50	55.6	56.1	102	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314048 4314049

Parameter	Units	92715031013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	50.9	50.7	102	101	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.5	109	101	90-110	7	10	
Sulfate	mg/L	ND	50	50	51.1	50.7	102	101	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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

QC Batch: 835038
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92714723025, 92714723026, 92714723027

METHOD BLANK: 4314060 Matrix: Water
Associated Lab Samples: 92714723025, 92714723026, 92714723027

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	02/26/24 19:00	
Fluoride	mg/L	ND	0.10	0.050	02/26/24 19:00	
Sulfate	mg/L	ND	1.0	0.50	02/26/24 19:00	

LABORATORY CONTROL SAMPLE: 4314061

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.9	106	90-110	
Fluoride	mg/L	2.5	2.5	100	90-110	
Sulfate	mg/L	50	50.6	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314062 4314063

Parameter	Units	92714723025 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	6.6	50	50	57.7	59.0	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	105	107	90-110	2	10	
Sulfate	mg/L	0.79J	50	50	51.7	53.0	102	104	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4314064 4314065

Parameter	Units	92715031020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	5.2	50	50	56.4	57.6	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	101	103	90-110	2	10	
Sulfate	mg/L	241	50	50	282	285	82	87	90-110	1	10	M1

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

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.
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.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714723001	**YAT-YGWA-47**	EPA 3010A	835565	EPA 6010D	835656
92714723002	**YAT-GWA-2**	EPA 3010A	835565	EPA 6010D	835656
92714723003	**YAT-YGWA-4I**	EPA 3010A	835565	EPA 6010D	835656
92714723004	**YAT-YGWA-5I**	EPA 3010A	835565	EPA 6010D	835656
92714723005	**YAT-YGWA-5D**	EPA 3010A	835565	EPA 6010D	835656
92714723006	**YAT-YGWA-20S**	EPA 3010A	835565	EPA 6010D	835656
92714723007	**YAT-YGWA-21I**	EPA 3010A	835565	EPA 6010D	835656
92714723008	**YAT-YGWA-17S**	EPA 3010A	835581	EPA 6010D	835658
92714723010	**YAT-YGWA-18I**	EPA 3010A	835581	EPA 6010D	835658
92714723011	**YAT-UGRD-EB-1**	EPA 3010A	835581	EPA 6010D	835658
92714723012	**YAT-UGRD-FB-1**	EPA 3010A	835581	EPA 6010D	835658
92714723013	**YAT-UGRD-EB-2**	EPA 3010A	835581	EPA 6010D	835658
92714723014	**YAT-UGRD-FB-2**	EPA 3010A	835581	EPA 6010D	835658
92714723015	**YAT-YGWA-30I**	EPA 3010A	835581	EPA 6010D	835658
92714723016	**YAT-YGWA-3I**	EPA 3010A	835581	EPA 6010D	835658
92714723017	**YAT-YGWA-3D**	EPA 3010A	835581	EPA 6010D	835658
92714723019	**YAT-YGWA-39**	EPA 3010A	835581	EPA 6010D	835658
92714723020	**YAT-YGWA-40**	EPA 3010A	835581	EPA 6010D	835658
92714723021	**YAT-YGWA-1I**	EPA 3010A	835638	EPA 6010D	835688
92714723022	**YAT-YGWA-1D**	EPA 3010A	835638	EPA 6010D	835688
92714723023	**YAT-YGWA-2I**	EPA 3010A	835638	EPA 6010D	835688
92714723024	**YAT-YGWA-14S**	EPA 3010A	835873	EPA 6010D	835959
92714723025	**YAT-YGWA-18S**	EPA 3010A	835886	EPA 6010D	835961
92714723026	**YAT-UGRD-FD-1**	EPA 3010A	835886	EPA 6010D	835961
92714723027	**YAT-UGRD-FD-2**	EPA 3010A	835886	EPA 6010D	835961
92714723001	**YAT-YGWA-47**	EPA 3005A	835521	EPA 6020B	835651
92714723002	**YAT-GWA-2**	EPA 3005A	835521	EPA 6020B	835651
92714723003	**YAT-YGWA-4I**	EPA 3005A	835521	EPA 6020B	835651
92714723004	**YAT-YGWA-5I**	EPA 3005A	835521	EPA 6020B	835651
92714723005	**YAT-YGWA-5D**	EPA 3005A	835521	EPA 6020B	835651
92714723006	**YAT-YGWA-20S**	EPA 3005A	835521	EPA 6020B	835651
92714723007	**YAT-YGWA-21I**	EPA 3005A	835521	EPA 6020B	835651
92714723008	**YAT-YGWA-17S**	EPA 3005A	835521	EPA 6020B	835651
92714723010	**YAT-YGWA-18I**	EPA 3005A	835521	EPA 6020B	835651
92714723011	**YAT-UGRD-EB-1**	EPA 3005A	835521	EPA 6020B	835651
92714723012	**YAT-UGRD-FB-1**	EPA 3005A	835521	EPA 6020B	835651
92714723013	**YAT-UGRD-EB-2**	EPA 3005A	835521	EPA 6020B	835651
92714723014	**YAT-UGRD-FB-2**	EPA 3005A	835521	EPA 6020B	835651
92714723015	**YAT-YGWA-30I**	EPA 3005A	835521	EPA 6020B	835651
92714723016	**YAT-YGWA-3I**	EPA 3005A	835521	EPA 6020B	835651
92714723017	**YAT-YGWA-3D**	EPA 3005A	835521	EPA 6020B	835651
92714723019	**YAT-YGWA-39**	EPA 3005A	835521	EPA 6020B	835651
92714723020	**YAT-YGWA-40**	EPA 3005A	835521	EPA 6020B	835651
92714723021	**YAT-YGWA-1I**	EPA 3005A	835532	EPA 6020B	835652
92714723022	**YAT-YGWA-1D**	EPA 3005A	835532	EPA 6020B	835652
92714723023	**YAT-YGWA-2I**	EPA 3005A	835532	EPA 6020B	835652

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714723024	**YAT-YGWA-14S**	EPA 3005A	835671	EPA 6020B	835903
92714723025	**YAT-YGWA-18S**	EPA 3005A	835671	EPA 6020B	835903
92714723026	**YAT-UGRD-FD-1**	EPA 3005A	835671	EPA 6020B	835903
92714723027	**YAT-UGRD-FD-2**	EPA 3005A	835671	EPA 6020B	835903
92714723001	**YAT-YGWA-47**	EPA 7470A	837274	EPA 7470A	837419
92714723002	**YAT-GWA-2**	EPA 7470A	837274	EPA 7470A	837419
92714723003	**YAT-YGWA-4I**	EPA 7470A	837274	EPA 7470A	837419
92714723004	**YAT-YGWA-5I**	EPA 7470A	837274	EPA 7470A	837419
92714723005	**YAT-YGWA-5D**	EPA 7470A	837274	EPA 7470A	837419
92714723006	**YAT-YGWA-20S**	EPA 7470A	837274	EPA 7470A	837419
92714723007	**YAT-YGWA-21I**	EPA 7470A	837274	EPA 7470A	837419
92714723008	**YAT-YGWA-17S**	EPA 7470A	837274	EPA 7470A	837419
92714723010	**YAT-YGWA-18I**	EPA 7470A	837274	EPA 7470A	837419
92714723011	**YAT-UGRD-EB-1**	EPA 7470A	837274	EPA 7470A	837419
92714723012	**YAT-UGRD-FB-1**	EPA 7470A	837274	EPA 7470A	837419
92714723013	**YAT-UGRD-EB-2**	EPA 7470A	837274	EPA 7470A	837419
92714723014	**YAT-UGRD-FB-2**	EPA 7470A	837274	EPA 7470A	837419
92714723015	**YAT-YGWA-30I**	EPA 7470A	837274	EPA 7470A	837419
92714723016	**YAT-YGWA-3I**	EPA 7470A	837274	EPA 7470A	837419
92714723017	**YAT-YGWA-3D**	EPA 7470A	837274	EPA 7470A	837419
92714723019	**YAT-YGWA-39**	EPA 7470A	837274	EPA 7470A	837419
92714723020	**YAT-YGWA-40**	EPA 7470A	837274	EPA 7470A	837419
92714723021	**YAT-YGWA-1I**	EPA 7470A	837274	EPA 7470A	837419
92714723022	**YAT-YGWA-1D**	EPA 7470A	837274	EPA 7470A	837419
92714723023	**YAT-YGWA-2I**	EPA 7470A	837279	EPA 7470A	837426
92714723024	**YAT-YGWA-14S**	EPA 7470A	837279	EPA 7470A	837426
92714723025	**YAT-YGWA-18S**	EPA 7470A	837279	EPA 7470A	837426
92714723026	**YAT-UGRD-FD-1**	EPA 7470A	837279	EPA 7470A	837426
92714723027	**YAT-UGRD-FD-2**	EPA 7470A	837279	EPA 7470A	837426
92714723001	**YAT-YGWA-47**	SM 2540C-2015	834938		
92714723002	**YAT-GWA-2**	SM 2540C-2015	834943		
92714723003	**YAT-YGWA-4I**	SM 2540C-2015	834943		
92714723004	**YAT-YGWA-5I**	SM 2540C-2015	834943		
92714723005	**YAT-YGWA-5D**	SM 2540C-2015	834943		
92714723006	**YAT-YGWA-20S**	SM 2540C-2015	834943		
92714723007	**YAT-YGWA-21I**	SM 2540C-2015	834943		
92714723008	**YAT-YGWA-17S**	SM 2540C-2015	834943		
92714723010	**YAT-YGWA-18I**	SM 2540C-2015	834943		
92714723011	**YAT-UGRD-EB-1**	SM 2540C-2015	834943		
92714723012	**YAT-UGRD-FB-1**	SM 2540C-2015	834943		
92714723013	**YAT-UGRD-EB-2**	SM 2540C-2015	834943		
92714723014	**YAT-UGRD-FB-2**	SM 2540C-2015	834943		
92714723015	**YAT-YGWA-30I**	SM 2540C-2015	834943		
92714723016	**YAT-YGWA-3I**	SM 2540C-2015	834943		
92714723017	**YAT-YGWA-3D**	SM 2540C-2015	834943		
92714723019	**YAT-YGWA-39**	SM 2540C-2015	834943		

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714723020	**YAT-YGWA-40**	SM 2540C-2015	834943		
92714723021	**YAT-YGWA-1I**	SM 2540C-2015	834943		
92714723022	**YAT-YGWA-1D**	SM 2540C-2015	835037		
92714723023	**YAT-YGWA-2I**	SM 2540C-2015	835037		
92714723001	**YAT-YGWA-47**	SM 2320B-2011	834611		
92714723002	**YAT-GWA-2**	SM 2320B-2011	834611		
92714723003	**YAT-YGWA-4I**	SM 2320B-2011	834663		
92714723004	**YAT-YGWA-5I**	SM 2320B-2011	834663		
92714723005	**YAT-YGWA-5D**	SM 2320B-2011	834663		
92714723006	**YAT-YGWA-20S**	SM 2320B-2011	834663		
92714723007	**YAT-YGWA-21I**	SM 2320B-2011	834663		
92714723008	**YAT-YGWA-17S**	SM 2320B-2011	834663		
92714723010	**YAT-YGWA-18I**	SM 2320B-2011	834663		
92714723011	**YAT-UGRD-EB-1**	SM 2320B-2011	834663		
92714723012	**YAT-UGRD-FB-1**	SM 2320B-2011	834663		
92714723013	**YAT-UGRD-EB-2**	SM 2320B-2011	834663		
92714723014	**YAT-UGRD-FB-2**	SM 2320B-2011	834663		
92714723015	**YAT-YGWA-30I**	SM 2320B-2011	834663		
92714723016	**YAT-YGWA-3I**	SM 2320B-2011	834663		
92714723017	**YAT-YGWA-3D**	SM 2320B-2011	834663		
92714723019	**YAT-YGWA-39**	SM 2320B-2011	834663		
92714723020	**YAT-YGWA-40**	SM 2320B-2011	834663		
92714723021	**YAT-YGWA-1I**	SM 2320B-2011	834663		
92714723022	**YAT-YGWA-1D**	SM 2320B-2011	835154		
92714723023	**YAT-YGWA-2I**	SM 2320B-2011	835154		
92714723024	**YAT-YGWA-14S**	SM 2320B-2011	836772		
92714723025	**YAT-YGWA-18S**	SM 2320B-2011	836772		
92714723026	**YAT-UGRD-FD-1**	SM 2320B-2011	836772		
92714723027	**YAT-UGRD-FD-2**	SM 2320B-2011	836772		
92714723024	**YAT-YGWA-14S**	SM 2540C-2015	835155		
92714723025	**YAT-YGWA-18S**	SM 2540C-2015	835155		
92714723026	**YAT-UGRD-FD-1**	SM 2540C-2015	835155		
92714723027	**YAT-UGRD-FD-2**	SM 2540C-2015	835155		
92714723001	**YAT-YGWA-47**	EPA 300.0 Rev 2.1 1993	834454		
92714723002	**YAT-GWA-2**	EPA 300.0 Rev 2.1 1993	834454		
92714723003	**YAT-YGWA-4I**	EPA 300.0 Rev 2.1 1993	834454		
92714723004	**YAT-YGWA-5I**	EPA 300.0 Rev 2.1 1993	834454		
92714723005	**YAT-YGWA-5D**	EPA 300.0 Rev 2.1 1993	834454		
92714723006	**YAT-YGWA-20S**	EPA 300.0 Rev 2.1 1993	834454		
92714723007	**YAT-YGWA-21I**	EPA 300.0 Rev 2.1 1993	834454		
92714723008	**YAT-YGWA-17S**	EPA 300.0 Rev 2.1 1993	834454		
92714723010	**YAT-YGWA-18I**	EPA 300.0 Rev 2.1 1993	834454		
92714723011	**YAT-UGRD-EB-1**	EPA 300.0 Rev 2.1 1993	834454		
92714723012	**YAT-UGRD-FB-1**	EPA 300.0 Rev 2.1 1993	834454		
92714723013	**YAT-UGRD-EB-2**	EPA 300.0 Rev 2.1 1993	834454		

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92714723

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714723014	**YAT-UGRD-FB-2**	EPA 300.0 Rev 2.1 1993	834454		
92714723015	**YAT-YGWA-30I**	EPA 300.0 Rev 2.1 1993	834455		
92714723016	**YAT-YGWA-3I**	EPA 300.0 Rev 2.1 1993	834455		
92714723017	**YAT-YGWA-3D**	EPA 300.0 Rev 2.1 1993	834455		
92714723019	**YAT-YGWA-39**	EPA 300.0 Rev 2.1 1993	834455		
92714723020	**YAT-YGWA-40**	EPA 300.0 Rev 2.1 1993	834455		
92714723021	**YAT-YGWA-1I**	EPA 300.0 Rev 2.1 1993	834455		
92714723022	**YAT-YGWA-1D**	EPA 300.0 Rev 2.1 1993	834455		
92714723023	**YAT-YGWA-2I**	EPA 300.0 Rev 2.1 1993	834455		
92714723024	**YAT-YGWA-14S**	EPA 300.0 Rev 2.1 1993	835036		
92714723025	**YAT-YGWA-18S**	EPA 300.0 Rev 2.1 1993	835038		
92714723026	**YAT-UGRD-FD-1**	EPA 300.0 Rev 2.1 1993	835038		
92714723027	**YAT-UGRD-FD-2**	EPA 300.0 Rev 2.1 1993	835038		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92714723

92714723

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/11/24 SH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer:
☑ IR Gun ID: 730

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 **Correction Factor:** Add/Subtract (°C): -0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

WO#: 92714723

Project #

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

*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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	Vials	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			X				
2		2	1			1																			X				
3		2	1			1																			X				
4		2	1			1																			X				
5		2	1			1																			X				
6		2	1			1																			X				
7		2	1			1																			X				
8		2	1			1																			X				
9		2	1			1																			X				
10																									2				
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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92714723

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only — Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App I/II Metals	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G	2/20/24	1030				6		X	X	X	X	X		See Remarks 001	
YAT-GWA-2	WG	G	2/20/24	1150				6		X	X	X	X	X	X	See Remarks 002	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-21I	WG	G						6		X	X	X	X	X		See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jake Swanson
Signature: (Arcadis)

Additional instructions from Pace®:

# of Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/Arcadis	2/20/24 / 1730	/Arcadis	2/20/24 / 1730	
/Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In Person [ ] Courier
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [√] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App III Metals	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	2/20/24	1110	—	—		6		X	X	X	X	X		See Remarks 003	
YAT-YGWA-5I	WG	G	2/20/24	1218	—	—		6		X	X	X	X	X		See Remarks 004	
YAT-YGWA-5D	WG	G	2/20/24	1325	—	—		6		X	X	X	X	X		See Remarks 005	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-20S	WG	G	2/20/24	1440	—	—		6		X	X	X	X	X		See Remarks 006	
YAT-YGWA-21I	WG	G	2/20/24	1635	—	—		6		X	X	X	X	X		See Remarks 007	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LIAPSUNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
[illegible] / ARCADIS	2/21/24 0810	[illegible] / Arcadis	2/21/24 0810	
[illegible] / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier
Ryan Williams / Pace	2/21/24 1512	[illegible]	2/21/24 1512	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPCS2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App I/II Metals	Sample Comment	Preservation non conformance identified for sample
Specify Container Size **										3	3	2	1	3			
Identify Container Preservative Type***										2	1	1	2	1			
Analysis Requested																	
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-17S	WG	G	2/20/24	1037				6		X	X	X	X	X		See Remarks 008	
YAT-YGWA-18S	WG	G	2/20/24	1152				6		X	X	X	X	X		See Remarks 009	
YAT-YGWA-18I	WG	G	2/20/24	1248				6		X	X	X	X	X		See Remarks 010	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-21I	WG	G						6		X	X	X	X	X		See Remarks	

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/21/24 0725	Matt Lee / Arcadis	2/21/24 0725	
Matt Lee / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1226	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Pace

Project #: **WO#: 92714723**

PM: BV Due Date: 03/07/24
CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/11/24 SH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 730 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C): -0.1

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

Cooler Temp Corrected (°C): 4.2

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*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#: 92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																		2					
2		2	1			1																		2					
3		2	1			1																		2					
4		2	1			1																		2					
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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: GPC Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Coulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct#Num / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	2/20/24	1715	–	–	–	6		X	X	X	X	X	See Remarks 011	
YAT-UGRD-FB-1	WG	G	2/20/24	1535	–	–	–	6		X	X	X	X	X	See Remarks 012	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) · Mark Chest
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Mark Chest / Arcadis	Date/Time: 2/21/24 1220	Received by/Company: (Signature) Lyan Williams / Pace	Date/Time: 2/21/24 1220	Tracking Number:
Relinquished by/Company: (Signature) Lyan Williams / Pace	Date/Time: 2/21/24 1512	Received by/Company: (Signature)	Date/Time: 2/21/24 1512	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
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Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	
		Date Results Requested:	Standard
		DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G	2/20/24	1555				6		X	X	X	X	X	See Remarks 013	
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca

App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 2/21/24 0725	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Relinquished by/Company: (Signature) / Arcadis	Date/Time: 2/21/24 1220	Received by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 2/21/24 1512	Received by/Company: (Signature)	Date/Time: 2/21/24 1512	Page: 3 of 3
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

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YAT-UGRD-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	2/20/24	1700	—	—		6		X	X	X	X	X	See Remarks 014	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM WAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
ARCADIS	2/21/24 0810	Arcadis	2/21/24 0810	
Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In- Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Gr Power

Project #: WO#: 92714723

PM: BV Due Date: 03/07/24
CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/11/24 SG

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 730 Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) -0.1

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

Cooler Temp Corrected (°C): 4.2

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

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

				Comments/Discrepancy:
Chain of Custody Present?	☑ Yes	☐ No	☐ N/A	1.
Samples Arrived within Hold Time?	☑ Yes	☐ No	☐ N/A	2.
Short Hold Time Analysis (<72 hr.)? 7/11 5:61	☐ Yes	☑ No	☐ N/A	3.
Rush Turn Around Time Requested?	☐ Yes	☑ No	☐ N/A	4.
Sufficient Volume?	☑ Yes	☐ No	☐ N/A	5.
Correct Containers Used?	☑ Yes	☐ No	☐ N/A	6.
-Pace Containers Used?	☑ Yes	☐ No	☐ N/A	
Containers Intact?	☑ Yes	☐ No	☐ N/A	7.
Dissolved analysis: Samples Field Filtered?	☐ Yes	☐ No	☑ N/A	8.
Sample Labels Match COC?	☑ Yes	☐ No	☐ N/A	9.
-Includes Date/Time/ID/Analysis Matrix: WT				
Headspace in VOA Vials (>5-6mm)?	☐ Yes	☐ No	☑ N/A	10.
Trip Blank Present?	☐ Yes	☐ No	☑ N/A	11.
Trip Blank Custody Seals Present?	☐ Yes	☐ No	☐ N/A	

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*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#:92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	13PLIN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			X				
2		2	1			1																			X				
3		2	1			1																			X				
4		2	1			1																			X				
5		2	1			1																			X				
6		2	1			1																			X				
7		2	1			1																			X				
8		2	1			1																			X				
9		2	1			1	X																		X				
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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

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Date Results Requested: Standard

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YAT-YGWA-30I	WG	G	2/20/24	1625				6		X	X	X	X	X	See Remarks 015
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	2/20/24	1350				6		X	X	X	X	X	See Remarks 016
YAT-YGWA-3D	WG	G	2/20/24	1135				6		X	X	X	X	X	See Remarks 017
			~~2/20/24~~	~~1135~~											

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) David Pratt

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	2/21/24 0810	Arcadis	2/21/24 0810	
Arcadis	2/21/24 1220	Pace	2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Pace	2/21/24 1512		2/21/24	Page: 1 of 1

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Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #: Task No. YAT-CCR-ASSMT-2024S1
Project Name: Georgia Power Yates
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient

Contact/Report To: Lauren Hartley
Phone #: 470-620-6176
E-Mail: laucoker@southernco.com
Cc E-Mail: Arcadis contacts
Invoice To:
Invoice E-Mail:
Purchase Order # (if applicable): GPC82474-0002
Quote #:

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other
Regulatory Program (DW, RCRA, etc.) as applicable:
Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other
Date Results Requested: Standard
DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3, 3, 2, 1, 3
Identify Container Preservative Type***: 2, 1, 1, 2, 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID: ; Table #: ; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res. Cl2	Plastic	Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G	2/20/24	1701				6		X	X	X	X	X	See Remarks 018	
YAT-YGWA-39	WG	G	2/20/24	1358				6		X	X	X	X	X	See Remarks 019	
YAT-YGWA-40	WG	G	2/20/24	1510				6		X	X	X	X	X	See Remarks 020	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:
Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Jessica Ware / Arcadis	2/21/24 0725	[signature] / Arcadis	2/21/24 0725
[signature] / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220
Ryan Williams / Pace	2/21/24 1512	[signature]	2/21/24 1512

Tracking Number:
Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 2 of 3

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested: Std Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	2/20/24	1202	—	—	—	6		X	X	X	X	X	See Remarks 021	
YAT-YGWA-1D	WG	G	2/20/24	1324	—	—	—	6		X	X	X	X	X	See Remarks 022	
YAT-YGWA-2I	WG	G	2/20/24	1602	—	—	—	6		X	X	X	X	X	See Remarks 023	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) Mark Chest; Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

Pace

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #: **WO# : 92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: [illegible]

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

***Check all unpreserved Nitrates for chlorine

Project # WO#: 92714723

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

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

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92714723

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G	2/23/24	1100				6		X	X	X	X	X	See Remarks 024	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		X	X	X	X	X	See Remarks	

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl, 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	2/23/24 1230	Jessica Dow / Arcadis	2/23/24 1230	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In- Person [ ] Courier
	2/24/24 1133	MTW	2/24/24 1133	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #:

WO# : 92714723

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

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

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*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# : 92714723**

PM: BV Due Date: 03/07/24

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	1360 IN	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App I/II Metals	Sample Comment
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-18S	WG	G	2/23/24	0925				6		X	X	X	X	X		See Remarks 025
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-21I	WG	G						6		X	X	X	X	X		See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Routh
Signature: (Arcadis)

Additional Instructions from Pace®:

Cooler	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	2/23/24 1230	Jordan Cox /Arcadis	2/23/24 1230	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
Jordan Cox /Arcadis	2/24/24 1133	MAW	2/24/24 1133	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #:

WO#: 92714723

PM: BV **Due Date: 03/07/24**

CLIENT: 92-GP-Yates

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

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

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

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

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

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

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

***Check all unpreserved Nitrates for chlorine

Project #

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

Pace® Lab Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC32474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, NCAA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

Dw PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) MeOH, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) NaOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 0526
YAT-UGRD-FD-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 0527

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type ***: 2 1 1 2 1

Analysis Requested

Lab Use Only: Proj. Mgr: Bonnie Vang; Accolum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for samples

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca

App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:

Printed Name: (Arcadis)

Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Relinquished by/Company: (Signature)	2/23/24 1250	Received by/Company: (Signature) Arcadis	2/23/24 1230	
Relinquished by/Company: (Signature)	2/24/24 1133	Received by/Company: (Signature)	2/24/24 1133	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

March 21, 2024

Lauren Hartley
Southern Company
241 Ralph McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Dear Lauren Hartley:

Enclosed are the analytical results for sample(s) received by the laboratory between February 21, 2024 and February 24, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92714724001	**YAT-YGWA-47**	Water	02/20/24 10:30	02/21/24 15:12
92714724002	**YAT-GWA-2**	Water	02/20/24 11:50	02/21/24 15:12
92714724003	**YAT-YGWA-4I**	Water	02/20/24 11:10	02/21/24 15:12
92714724004	**YAT-YGWA-5I**	Water	02/20/24 12:18	02/21/24 15:12
92714724005	**YAT-YGWA-5D**	Water	02/20/24 13:25	02/21/24 15:12
92714724006	**YAT-YGWA-20S**	Water	02/20/24 14:40	02/21/24 15:12
92714724007	**YAT-YGWA-21I**	Water	02/20/24 16:38	02/21/24 15:12
92714724008	**YAT-YGWA-17S**	Water	02/20/24 10:37	02/21/24 15:12
92714724010	**YAT-YGWA-18I**	Water	02/20/24 12:48	02/21/24 15:12
92714724011	**YAT-UGRD-EB-1**	Water	02/20/24 17:15	02/21/24 15:12
92714724012	**YAT-UGRD-FB-1**	Water	02/20/24 15:35	02/21/24 15:12
92714724013	**YAT-UGRD-EB-2**	Water	02/20/24 15:55	02/21/24 15:12
92714724014	**YAT-UGRD-FB-2**	Water	02/20/24 17:00	02/21/24 15:12
92714724015	**YAT-YGWA-30I**	Water	02/20/24 16:25	02/21/24 15:12
92714724016	**YAT-YGWA-3I**	Water	02/20/24 13:50	02/21/24 15:12
92714724017	**YAT-YGWA-3D**	Water	02/20/24 11:35	02/21/24 15:12
92714724019	**YAT-YGWA-39**	Water	02/20/24 13:58	02/21/24 15:12
92714724020	**YAT-YGWA-40**	Water	02/20/24 15:10	02/21/24 15:12
92714724021	**YAT-YGWA-1I**	Water	02/20/24 12:02	02/21/24 15:12
92714724022	**YAT-YGWA-1D**	Water	02/20/24 13:24	02/21/24 15:12
92714724023	**YAT-YGWA-2I**	Water	02/20/24 16:02	02/21/24 15:12
92714724024	**YAT-YGWA-14S**	Water	02/23/24 11:00	02/24/24 11:33
92714724025	**YAT-YGWA-18S**	Water	02/23/24 09:25	02/24/24 11:33
92714724026	**YAT-UGRD-FD-1**	Water	02/23/24 00:00	02/24/24 11:33
92714724027	**YAT-UGRD-FD-2**	Water	02/23/24 00:00	02/24/24 11:33

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92714724001	**YAT-YGWA-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724002	**YAT-GWA-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724003	**YAT-YGWA-4I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724004	**YAT-YGWA-5I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724005	**YAT-YGWA-5D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724006	**YAT-YGWA-20S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724007	**YAT-YGWA-21I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724008	**YAT-YGWA-17S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724010	**YAT-YGWA-18I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724011	**YAT-UGRD-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724012	**YAT-UGRD-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724013	**YAT-UGRD-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724014	**YAT-UGRD-FB-2**	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724015	**YAT-YGWA-30I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724016	**YAT-YGWA-3I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724017	**YAT-YGWA-3D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724019	**YAT-YGWA-39**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724020	**YAT-YGWA-40**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724021	**YAT-YGWA-1I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724022	**YAT-YGWA-1D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724023	**YAT-YGWA-2I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724024	**YAT-YGWA-14S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724025	**YAT-YGWA-18S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724026	**YAT-UGRD-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92714724027	**YAT-UGRD-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

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

PASI-PA = Pace Analytical Services - Greensburg

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724001	**YAT-YGWA-47**					
EPA 9315	Radium-226	0.277 ± 0.175 (0.267) C:86% T:NA	pCi/L		03/15/24 08:19	
EPA 9320	Radium-228	0.662U ± 0.432 (0.822) C:73% T:82%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	0.939U ± 0.607 (1.09)	pCi/L		03/15/24 11:17	
92714724002	**YAT-GWA-2**					
EPA 9315	Radium-226	0.356 ± 0.211 (0.337) C:81% T:NA	pCi/L		03/15/24 08:19	
EPA 9320	Radium-228	0.622U ± 0.472 (0.938) C:73% T:81%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	0.978U ± 0.683 (1.28)	pCi/L		03/15/24 11:17	
92714724003	**YAT-YGWA-4I**					
EPA 9315	Radium-226	0.710 ± 0.275 (0.319) C:84% T:NA	pCi/L		03/15/24 08:19	
EPA 9320	Radium-228	0.393U ± 0.395 (0.815) C:73% T:84%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	1.10U ± 0.670 (1.13)	pCi/L		03/15/24 11:17	
92714724004	**YAT-YGWA-5I**					
EPA 9315	Radium-226	0.0401U ± 0.124 (0.302) C:92% T:NA	pCi/L		03/15/24 08:19	
EPA 9320	Radium-228	0.590U ± 0.404 (0.784) C:75% T:92%	pCi/L		03/11/24 12:54	
Total Radium Calculation	Total Radium	0.630U ± 0.528 (1.09)	pCi/L		03/15/24 11:17	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724005	**YAT-YGWA-5D**					
EPA 9315	Radium-226	1.96 ± 0.483 (0.315) C:89% T:NA	pCi/L		03/15/24 08:20	
EPA 9320	Radium-228	0.837 ± 0.430 (0.760) C:77% T:83%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	2.80 ± 0.913 (1.08)	pCi/L		03/15/24 11:17	
92714724006	**YAT-YGWA-20S**					
EPA 9315	Radium-226	-0.00558U ± 0.129 (0.343) C:94% T:NA	pCi/L		03/15/24 08:20	
EPA 9320	Radium-228	0.165U ± 0.377 (0.836) C:73% T:87%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	0.165U ± 0.506 (1.18)	pCi/L		03/15/24 11:17	
92714724007	**YAT-YGWA-21I**					
EPA 9315	Radium-226	0.483 ± 0.227 (0.300) C:88% T:NA	pCi/L		03/15/24 08:20	
EPA 9320	Radium-228	0.707U ± 0.415 (0.774) C:78% T:86%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	1.19 ± 0.642 (1.07)	pCi/L		03/15/24 11:17	
92714724008	**YAT-YGWA-17S**					
EPA 9315	Radium-226	0.0387U ± 0.120 (0.294) C:92% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	-0.238U ± 0.300 (0.744) C:75% T:92%	pCi/L		03/11/24 12:57	
Total Radium Calculation	Total Radium	0.0387U ± 0.420 (1.04)	pCi/L		03/15/24 11:17	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724010	**YAT-YGWA-18I**					
EPA 9315	Radium-226	0.0680U ± 0.138 (0.320) C:95% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	-0.0722U ± 0.333 (0.787) C:77% T:86%	pCi/L		03/11/24 12:58	
Total Radium Calculation	Total Radium	0.0680U ± 0.471 (1.11)	pCi/L		03/15/24 11:17	
92714724011	**YAT-UGRD-EB-1**					
EPA 9315	Radium-226	0.0362U ± 0.126 (0.309) C:90% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	0.275U ± 0.327 (0.688) C:78% T:83%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.311U ± 0.453 (0.997)	pCi/L		03/15/24 11:17	
92714724012	**YAT-UGRD-FB-1**					
EPA 9315	Radium-226	-0.0510U ± 0.118 (0.352) C:82% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	0.508U ± 0.327 (0.600) C:77% T:83%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.508U ± 0.445 (0.952)	pCi/L		03/15/24 11:17	
92714724013	**YAT-UGRD-EB-2**					
EPA 9315	Radium-226	-0.0129U ± 0.0985 (0.288) C:92% T:NA	pCi/L		03/15/24 08:21	
EPA 9320	Radium-228	0.311U ± 0.303 (0.615) C:76% T:84%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.311U ± 0.402 (0.903)	pCi/L		03/15/24 11:17	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724014	**YAT-UGRD-FB-2**					
EPA 9315	Radium-226	0.0596U ± 0.177 (0.426) C:80% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.583U ± 0.369 (0.686) C:75% T:82%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.643U ± 0.546 (1.11)	pCi/L		03/15/24 11:17	
92714724015	**YAT-YGWA-30I**					
EPA 9315	Radium-226	0.136U ± 0.141 (0.278) C:92% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.239U ± 0.383 (0.831) C:79% T:86%	pCi/L		03/11/24 12:53	
Total Radium Calculation	Total Radium	0.375U ± 0.524 (1.11)	pCi/L		03/15/24 11:17	
92714724016	**YAT-YGWA-3I**					
EPA 9315	Radium-226	0.738 ± 0.284 (0.332) C:85% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.354U ± 0.372 (0.773) C:78% T:87%	pCi/L		03/11/24 12:54	
Total Radium Calculation	Total Radium	1.09U ± 0.656 (1.11)	pCi/L		03/15/24 11:17	
92714724017	**YAT-YGWA-3D**					
EPA 9315	Radium-226	0.951 ± 0.308 (0.287) C:94% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	1.61 ± 0.553 (0.815) C:79% T:91%	pCi/L		03/11/24 12:54	
Total Radium Calculation	Total Radium	2.56 ± 0.861 (1.10)	pCi/L		03/15/24 11:17	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724019	**YAT-YGWA-39**					
EPA 9315	Radium-226	0.215U ± 0.193 (0.375) C:82% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.486U ± 0.459 (0.935) C:70% T:80%	pCi/L		03/11/24 16:47	
Total Radium Calculation	Total Radium	0.701U ± 0.652 (1.31)	pCi/L		03/15/24 11:17	
92714724020	**YAT-YGWA-40**					
EPA 9315	Radium-226	0.135U ± 0.131 (0.245) C:92% T:NA	pCi/L		03/15/24 08:22	
EPA 9320	Radium-228	0.302U ± 0.391 (0.828) C:71% T:81%	pCi/L		03/11/24 16:48	
Total Radium Calculation	Total Radium	0.437U ± 0.522 (1.07)	pCi/L		03/15/24 11:17	
92714724021	**YAT-YGWA-1I**					
EPA 9315	Radium-226	0.0994U ± 0.165 (0.369) C:93% T:NA	pCi/L		03/11/24 08:28	
EPA 9320	Radium-228	0.699U ± 0.445 (0.827) C:72% T:83%	pCi/L		03/11/24 16:48	
Total Radium Calculation	Total Radium	0.798U ± 0.610 (1.20)	pCi/L		03/14/24 16:49	
92714724022	**YAT-YGWA-1D**					
EPA 9315	Radium-226	0.120U ± 0.165 (0.356) C:91% T:NA	pCi/L		03/11/24 08:28	
EPA 9320	Radium-228	0.154U ± 0.422 (0.945) C:75% T:78%	pCi/L		03/11/24 16:48	
Total Radium Calculation	Total Radium	0.274U ± 0.587 (1.30)	pCi/L		03/14/24 16:49	

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724023	**YAT-YGWA-2I**					
EPA 9315	Radium-226	-0.0626U ± 0.144 (0.431) C:76% T:NA	pCi/L		03/11/24 08:28	
EPA 9320	Radium-228	0.784 ± 0.420 (0.733) C:78% T:82%	pCi/L		03/11/24 16:48	
Total Radium Calculation	Total Radium	0.784U ± 0.564 (1.16)	pCi/L		03/14/24 16:49	
92714724024	**YAT-YGWA-14S**					
EPA 9315	Radium-226	0.0389U ± 0.116 (0.281) C:88% T:NA	pCi/L		03/18/24 10:09	
EPA 9320	Radium-228	0.697U ± 0.457 (0.876) C:75% T:84%	pCi/L		03/13/24 16:05	
Total Radium Calculation	Total Radium	0.736U ± 0.573 (1.16)	pCi/L		03/18/24 15:39	
92714724025	**YAT-YGWA-18S**					
EPA 9315	Radium-226	0.0497U ± 0.0978 (0.226) C:93% T:NA	pCi/L		03/18/24 10:09	
EPA 9320	Radium-228	0.268U ± 0.346 (0.735) C:77% T:86%	pCi/L		03/13/24 16:05	
Total Radium Calculation	Total Radium	0.318U ± 0.444 (0.961)	pCi/L		03/18/24 15:39	
92714724026	**YAT-UGRD-FD-1**					
EPA 9315	Radium-226	-0.00856U ± 0.0756 (0.220) C:92% T:NA	pCi/L		03/18/24 10:09	
EPA 9320	Radium-228	-0.0242U ± 0.378 (0.882) C:76% T:84%	pCi/L		03/13/24 16:06	
Total Radium Calculation	Total Radium	0.000U ± 0.454 (1.10)	pCi/L		03/18/24 15:39	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92714724027	**YAT-UGRD-FD-2**					
EPA 9315	Radium-226	0.0205U ± 0.0772 (0.198) C:93% T:NA	pCi/L		03/18/24 08:39	
EPA 9320	Radium-228	0.107U ± 0.449 (1.02) C:72% T:83%	pCi/L		03/13/24 16:03	
Total Radium Calculation	Total Radium	0.128U ± 0.526 (1.22)	pCi/L		03/18/24 15:39	

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-47 **Lab ID: 92714724001** Collected: 02/20/24 10:30 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.277 ± 0.175 (0.267) C:86% T:NA**	pCi/L	03/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.662U ± 0.432 (0.822) C:73% T:82%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.939U ± 0.607 (1.09)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-GWA-2 **Lab ID: 92714724002** Collected: 02/20/24 11:50 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.356 ± 0.211 (0.337) C:81% T:NA**	pCi/L	03/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.622U ± 0.472 (0.938) C:73% T:81%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.978U ± 0.683 (1.28)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-4I **Lab ID: 92714724003** Collected: 02/20/24 11:10 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.710 ± 0.275 (0.319) C:84% T:NA**	pCi/L	03/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.393U ± 0.395 (0.815) C:73% T:84%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.10U ± 0.670 (1.13)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-5I **Lab ID: 92714724004** Collected: 02/20/24 12:18 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0401U ± 0.124 (0.302) C:92% T:NA**	pCi/L	03/15/24 08:19	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.590U ± 0.404 (0.784) C:75% T:92%**	pCi/L	03/11/24 12:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.630U ± 0.528 (1.09)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-5D **Lab ID: 92714724005** Collected: 02/20/24 13:25 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.96 ± 0.483 (0.315) C:89% T:NA**	pCi/L	03/15/24 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.837 ± 0.430 (0.760) C:77% T:83%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.80 ± 0.913 (1.08)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-20S **Lab ID: 92714724006** Collected: 02/20/24 14:40 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00558U ± 0.129 (0.343) C:94% T:NA**	pCi/L	03/15/24 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.165U ± 0.377 (0.836) C:73% T:87%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.165U ± 0.506 (1.18)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-21I **Lab ID: 92714724007** Collected: 02/20/24 16:38 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.483 ± 0.227 (0.300) C:88% T:NA**	pCi/L	03/15/24 08:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.707U ± 0.415 (0.774) C:78% T:86%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.19 ± 0.642 (1.07)**	pCi/L	03/15/24 11:17	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-17S **Lab ID: 92714724008** Collected: 02/20/24 10:37 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0387U ± 0.120 (0.294) C:92% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.238U ± 0.300 (0.744) C:75% T:92%**	pCi/L	03/11/24 12:57	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0387U ± 0.420 (1.04)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-18I **Lab ID: 92714724010** Collected: 02/20/24 12:48 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0680U ± 0.138 (0.320) C:95% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0722U ± 0.333 (0.787) C:77% T:86%**	pCi/L	03/11/24 12:58	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0680U ± 0.471 (1.11)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-EB-1 **Lab ID: 92714724011** Collected: 02/20/24 17:15 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0362U ± 0.126 (0.309) C:90% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.275U ± 0.327 (0.688) C:78% T:83%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.311U ± 0.453 (0.997)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-FB-1 **Lab ID: 92714724012** Collected: 02/20/24 15:35 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0510U ± 0.118 (0.352) C:82% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.508U ± 0.327 (0.600) C:77% T:83%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.508U ± 0.445 (0.952)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-EB-2 **Lab ID: 92714724013** Collected: 02/20/24 15:55 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0129U ± 0.0985 (0.288) C:92% T:NA**	pCi/L	03/15/24 08:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.311U ± 0.303 (0.615) C:76% T:84%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.311U ± 0.402 (0.903)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-FB-2 **Lab ID: 92714724014** Collected: 02/20/24 17:00 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0596U ± 0.177 (0.426) C:80% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.583U ± 0.369 (0.686) C:75% T:82%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.643U ± 0.546 (1.11)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-30I **Lab ID: 92714724015** Collected: 02/20/24 16:25 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.136U ± 0.141 (0.278) C:92% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.239U ± 0.383 (0.831) C:79% T:86%**	pCi/L	03/11/24 12:53	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.375U ± 0.524 (1.11)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-3I **Lab ID: 92714724016** Collected: 02/20/24 13:50 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.738 ± 0.284 (0.332) C:85% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.354U ± 0.372 (0.773) C:78% T:87%**	pCi/L	03/11/24 12:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.09U ± 0.656 (1.11)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-3D **Lab ID: 92714724017** Collected: 02/20/24 11:35 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.951 ± 0.308 (0.287) C:94% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.61 ± 0.553 (0.815) C:79% T:91%**	pCi/L	03/11/24 12:54	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.56 ± 0.861 (1.10)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-39 **Lab ID: 92714724019** Collected: 02/20/24 13:58 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.215U ± 0.193 (0.375) C:82% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.486U ± 0.459 (0.935) C:70% T:80%**	pCi/L	03/11/24 16:47	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.701U ± 0.652 (1.31)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-40 **Lab ID: 92714724020** Collected: 02/20/24 15:10 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.135U ± 0.131 (0.245) C:92% T:NA**	pCi/L	03/15/24 08:22	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.302U ± 0.391 (0.828) C:71% T:81%**	pCi/L	03/11/24 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.437U ± 0.522 (1.07)**	pCi/L	03/15/24 11:17	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-1I **Lab ID: 92714724021** Collected: 02/20/24 12:02 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0994U ± 0.165 (0.369) C:93% T:NA**	pCi/L	03/11/24 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.699U ± 0.445 (0.827) C:72% T:83%**	pCi/L	03/11/24 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.798U ± 0.610 (1.20)**	pCi/L	03/14/24 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-1D **Lab ID: 92714724022** Collected: 02/20/24 13:24 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.120U ± 0.165 (0.356) C:91% T:NA**	pCi/L	03/11/24 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.154U ± 0.422 (0.945) C:75% T:78%**	pCi/L	03/11/24 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.274U ± 0.587 (1.30)**	pCi/L	03/14/24 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-2I **Lab ID: 92714724023** Collected: 02/20/24 16:02 Received: 02/21/24 15:12 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0626U ± 0.144 (0.431) C:76% T:NA**	pCi/L	03/11/24 08:28	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.784 ± 0.420 (0.733) C:78% T:82%**	pCi/L	03/11/24 16:48	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.784U ± 0.564 (1.16)**	pCi/L	03/14/24 16:49	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-14S **Lab ID: 92714724024** Collected: 02/23/24 11:00 Received: 02/24/24 11:33 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0389U ± 0.116 (0.281) C:88% T:NA**	pCi/L	03/18/24 10:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.697U ± 0.457 (0.876) C:75% T:84%**	pCi/L	03/13/24 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.736U ± 0.573 (1.16)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-YGWA-18S **Lab ID: 92714724025** Collected: 02/23/24 09:25 Received: 02/24/24 11:33 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0497U ± 0.0978 (0.226) C:93% T:NA**	pCi/L	03/18/24 10:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.268U ± 0.346 (0.735) C:77% T:86%**	pCi/L	03/13/24 16:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.318U ± 0.444 (0.961)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-FD-1 **Lab ID: 92714724026** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00856U ± 0.0756 (0.220) C:92% T:NA**	pCi/L	03/18/24 10:09	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**-0.0242U ± 0.378 (0.882) C:76% T:84%**	pCi/L	03/13/24 16:06	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.000U ± 0.454 (1.10)**	pCi/L	03/18/24 15:39	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Sample: YAT-UGRD-FD-2 **Lab ID: 92714724027** Collected: 02/23/24 00:00 Received: 02/24/24 11:33 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0205U ± 0.0772 (0.198) C:93% T:NA**	pCi/L	03/18/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.107U ± 0.449 (1.02) C:72% T:83%**	pCi/L	03/13/24 16:03	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.128U ± 0.526 (1.22)**	pCi/L	03/18/24 15:39	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 652557 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

METHOD BLANK: 3178917 Matrix: Water
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	-0.0560 ± 0.345 (0.817) C:73% T:88%	pCi/L	03/13/24 16:06	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651356
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017

METHOD BLANK: 3173418
Matrix: Water
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.370 ± 0.335 (0.678) C:78% T:87%	pCi/L	03/11/24 12:58	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651196 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017, 92714724019, 92714724020

METHOD BLANK: 3172765 Matrix: Water
Associated Lab Samples: 92714724001, 92714724002, 92714724003, 92714724004, 92714724005, 92714724006, 92714724007, 92714724008, 92714724010, 92714724011, 92714724012, 92714724013, 92714724014, 92714724015, 92714724016, 92714724017, 92714724019, 92714724020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0176 ± 0.0702 (0.223) C:92% T:NA	pCi/L	03/15/24 08:19	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651197
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724021, 92714724022, 92714724023

METHOD BLANK: 3172766 Matrix: Water
Associated Lab Samples: 92714724021, 92714724022, 92714724023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0136 ± 0.137 (0.359) C:89% T:NA	pCi/L	03/11/24 10:01	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 651359
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724019, 92714724020, 92714724021, 92714724022, 92714724023

METHOD BLANK: 3173423 Matrix: Water
Associated Lab Samples: 92714724019, 92714724020, 92714724021, 92714724022, 92714724023

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.310 ± 0.405 (0.865) C:73% T:92%	pCi/L	03/11/24 16:47	

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

QC Batch: 652903 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

METHOD BLANK: 3180680 Matrix: Water
Associated Lab Samples: 92714724024, 92714724025, 92714724026, 92714724027

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0533 ± 0.0799 (0.258) C:95% T:NA	pCi/L	03/18/24 08:33	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714724001	**YAT-YGWA-47**	EPA 9315	651196		
92714724002	**YAT-GWA-2**	EPA 9315	651196		
92714724003	**YAT-YGWA-4I**	EPA 9315	651196		
92714724004	**YAT-YGWA-5I**	EPA 9315	651196		
92714724005	**YAT-YGWA-5D**	EPA 9315	651196		
92714724006	**YAT-YGWA-20S**	EPA 9315	651196		
92714724007	**YAT-YGWA-21I**	EPA 9315	651196		
92714724008	**YAT-YGWA-17S**	EPA 9315	651196		
92714724010	**YAT-YGWA-18I**	EPA 9315	651196		
92714724011	**YAT-UGRD-EB-1**	EPA 9315	651196		
92714724012	**YAT-UGRD-FB-1**	EPA 9315	651196		
92714724013	**YAT-UGRD-EB-2**	EPA 9315	651196		
92714724014	**YAT-UGRD-FB-2**	EPA 9315	651196		
92714724015	**YAT-YGWA-30I**	EPA 9315	651196		
92714724016	**YAT-YGWA-3I**	EPA 9315	651196		
92714724017	**YAT-YGWA-3D**	EPA 9315	651196		
92714724019	**YAT-YGWA-39**	EPA 9315	651196		
92714724020	**YAT-YGWA-40**	EPA 9315	651196		
92714724021	**YAT-YGWA-1I**	EPA 9315	651197		
92714724022	**YAT-YGWA-1D**	EPA 9315	651197		
92714724023	**YAT-YGWA-2I**	EPA 9315	651197		
92714724024	**YAT-YGWA-14S**	EPA 9315	652903		
92714724025	**YAT-YGWA-18S**	EPA 9315	652903		
92714724026	**YAT-UGRD-FD-1**	EPA 9315	652903		
92714724027	**YAT-UGRD-FD-2**	EPA 9315	652903		
92714724001	**YAT-YGWA-47**	EPA 9320	651356		
92714724002	**YAT-GWA-2**	EPA 9320	651356		
92714724003	**YAT-YGWA-4I**	EPA 9320	651356		
92714724004	**YAT-YGWA-5I**	EPA 9320	651356		
92714724005	**YAT-YGWA-5D**	EPA 9320	651356		
92714724006	**YAT-YGWA-20S**	EPA 9320	651356		
92714724007	**YAT-YGWA-21I**	EPA 9320	651356		
92714724008	**YAT-YGWA-17S**	EPA 9320	651356		
92714724010	**YAT-YGWA-18I**	EPA 9320	651356		
92714724011	**YAT-UGRD-EB-1**	EPA 9320	651356		
92714724012	**YAT-UGRD-FB-1**	EPA 9320	651356		
92714724013	**YAT-UGRD-EB-2**	EPA 9320	651356		
92714724014	**YAT-UGRD-FB-2**	EPA 9320	651356		
92714724015	**YAT-YGWA-30I**	EPA 9320	651356		
92714724016	**YAT-YGWA-3I**	EPA 9320	651356		
92714724017	**YAT-YGWA-3D**	EPA 9320	651356		
92714724019	**YAT-YGWA-39**	EPA 9320	651359		
92714724020	**YAT-YGWA-40**	EPA 9320	651359		
92714724021	**YAT-YGWA-1I**	EPA 9320	651359		
92714724022	**YAT-YGWA-1D**	EPA 9320	651359		
92714724023	**YAT-YGWA-2I**	EPA 9320	651359		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92714724

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92714724024	**YAT-YGWA-14S**	EPA 9320	652557		
92714724025	**YAT-YGWA-18S**	EPA 9320	652557		
92714724026	**YAT-UGRD-FD-1**	EPA 9320	652557		
92714724027	**YAT-UGRD-FD-2**	EPA 9320	652557		
92714724001	**YAT-YGWA-47**	Total Radium Calculation	655435		
92714724002	**YAT-GWA-2**	Total Radium Calculation	655435		
92714724003	**YAT-YGWA-4I**	Total Radium Calculation	655435		
92714724004	**YAT-YGWA-5I**	Total Radium Calculation	655435		
92714724005	**YAT-YGWA-5D**	Total Radium Calculation	655435		
92714724006	**YAT-YGWA-20S**	Total Radium Calculation	655435		
92714724007	**YAT-YGWA-21I**	Total Radium Calculation	655435		
92714724008	**YAT-YGWA-17S**	Total Radium Calculation	655435		
92714724010	**YAT-YGWA-18I**	Total Radium Calculation	655435		
92714724011	**YAT-UGRD-EB-1**	Total Radium Calculation	655435		
92714724012	**YAT-UGRD-FB-1**	Total Radium Calculation	655435		
92714724013	**YAT-UGRD-EB-2**	Total Radium Calculation	655435		
92714724014	**YAT-UGRD-FB-2**	Total Radium Calculation	655435		
92714724015	**YAT-YGWA-30I**	Total Radium Calculation	655435		
92714724016	**YAT-YGWA-3I**	Total Radium Calculation	655435		
92714724017	**YAT-YGWA-3D**	Total Radium Calculation	655435		
92714724019	**YAT-YGWA-39**	Total Radium Calculation	655435		
92714724020	**YAT-YGWA-40**	Total Radium Calculation	655435		
92714724021	**YAT-YGWA-1I**	Total Radium Calculation	655250		
92714724022	**YAT-YGWA-1D**	Total Radium Calculation	655250		
92714724023	**YAT-YGWA-2I**	Total Radium Calculation	655250		
92714724024	**YAT-YGWA-14S**	Total Radium Calculation	655855		
92714724025	**YAT-YGWA-18S**	Total Radium Calculation	655855		
92714724026	**YAT-UGRD-FD-1**	Total Radium Calculation	655855		
92714724027	**YAT-UGRD-FD-2**	Total Radium Calculation	655855		

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #: WO# : 92714724

92714724

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☑ Yes ☐ No **Seals Intact?** ☑ Yes ☐ No ☐ N/A **Date/Initials Person Examining Contents:** 7/11/24 SH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other **Biological Tissue Frozen?** ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 730 **Type of Ice:** ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 **Correction Factor:** Add/Subtract (°C): -0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ **Date:** _____

Project Manager SRF Review: _____ **Date:** _____

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

WO#: 92714724

Project #

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

*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)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	Vigorin	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			X				
2		2	1			1																			X				
3		2	1			1																			X				
4		2	1			1																			X				
5		2	1			1																			X				
6		2	1			1																			X				
7		2	1			1																			X				
8		2	1			1																			X				
9		2	1			1																			X				
10																									X				
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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

92714724

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [N] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App III Metals					Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G	2/20/24	1030				6		X	X	X	X	X						See Remarks 001	
YAT-GWA-2	WG	G	2/20/24	1150				6		X	X	X	X	X	X					See Remarks 002	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-21I	WG	G						6		X	X	X	X	X						See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jake Swanson
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/Arcadis	2/20/24 / 1730	/Arcadis	2/20/24 / 1730	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
	2/21/24 1220	/ Pace	2/21/24 1220	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
/ Pace	2/21/24 1512		2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App I/II Metals	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	2/20/24	1110	—	—		6		X	X	X	X	X		See Remarks 003	
YAT-YGWA-5I	WG	G	2/20/24	1218	—	—		6		X	X	X	X	X		See Remarks 004	
YAT-YGWA-5D	WG	G	2/20/24	1325	—	—		6		X	X	X	X	X		See Remarks 005	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18S	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X		See Remarks	
YAT-YGWA-20S	WG	G	2/20/24	1440	—	—		6		X	X	X	X	X		See Remarks 006	
YAT-YGWA-21I	WG	G	2/20/24	1635	—	—		6		X	X	X	X	X		See Remarks 007	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM LIAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
ARCADIS	2/21/24 0810	Arcadis	2/21/24 0810	
Arcadis	2/24/24 1220	Ryan Williams / Pace	2/24 /24 1220	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	
				Page: 1 of 2

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) Na2SO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App I/II Metals	Sample Comment
YAT-YGWA-47	WG	G						6		X	X	X	X	X		See Remarks
YAT-GWA-2	WG	G						6		X	X	X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-5I	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-5D	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-17S	WG	G	2/20/24	1037				6		X	X	X	X	X		See Remarks 008
YAT-YGWA-18S	WG	G	2/20/24	1152				6		X	X	X	X	X		See Remarks 009
YAT-YGWA-18I	WG	G	2/20/24	1248				6		X	X	X	X	X		See Remarks 010
YAT-YGWA-20S	WG	G						6		X	X	X	X	X		See Remarks
YAT-YGWA-21I	WG	G						6		X	X	X	X	X		See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	2/21/24 0725	[illegible] / Arcadis	2/21/24 0725	
[illegible] / Arcadis	2/21/24 1220	Lyar Williams / Pace	2/21/24 1226	Delivered by: [ ] In-Person [ ] Courier
Lyar Williams / Pace	2/21/24 1512	[illegible]	2/21/24 1512	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 3

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Pace Analytical Services	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:

Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Ga Power

Project #:

WO# : 92714724

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 2/21/24 SW

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____________ Date/Time: ____________

Project Manager SCURF Review: ____________ Date: ____________

Project Manager SRF Review: ____________ Date: ____________

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

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

***Check all unpreserved Nitrates for chlorine

Project # **WO# : 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			2				
2		2	1			1																			2				
3		2	1			1																			2				
4		2	1			1																			2				
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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	
		Date Results Requested:	GPC Standard
		DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1 3
Identify Container Preservative Type***: 2 1 1 2 1
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G	2/20/24	1715	-	-	-	6		X	X	X	X	X	See Remarks 011	
YA1-UGRD-FB-1	WG	G	2/20/24	1535	-	-	-	6		X	X	X	X	X	See Remarks 012	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Mark Chest
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Mark Chest / Arcadis	Date/Time: 2/21/24 1220	Received by/Company: (Signature) Lyan Williams / Pace	Date/Time: 2/21/24 1220	Tracking Number:
Relinquished by/Company: (Signature) Lyan Williams / Pace	Date/Time: 2/21/24 1512	Received by/Company: (Signature)	Date/Time: 2/21/24 1512	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 2

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-UGRD-EB-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G	2/20/24	1555				6		X	X	X	X	X	See Remarks 013
YAT-UGRD-FB-2	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						6		X	X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca

App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By: Printed Name: (Arcadis) Jessica Ware; Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Jessica Ware / Arcadis	2/21/24 0725			
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Delivered by: [ ] In-Person [ ] Courier
/ Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	
Ryan Williams / Pace	2/21/24 1512		2/21/24 1512	Page: 3 of 3
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace®

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308

Contact/Report To: Lauren Hartley
Phone #: 470-620-6176
E-Mail: laucoker@southernco.com
Cc E-Mail: Arcadis contacts

Customer Project #: Task No. YAT-CCR-ASSMT-202451
Project Name: Georgia Power Yates

Invoice To:
Invoice E-Mail:

Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient

Purchase Order # (if applicable): GPC82474-0002
Quote #:

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other ______

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other ______

Date Results Requested: STANDARD TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [✓] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 | 3 | 2 | 1 | 3

Identify Container Preservative Type***: 2 | 1 | 1 | 2 | 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID: ; Table #: ; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res. Cl2	Containers Plastic	Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	2/20/24	1700	—	—		6		X	X	X	X	X	See Remarks 014	
YAT-UGRD-FD-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						6		X	X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - KIM WAPSZYNSKI
Signature: (Arcadis) - [signature]

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / ARCADIS	2/21/24 0810	[signature] / Arcadis	2/21/24 0810
[signature] / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220
Ryan Williams / Pace	2/21/24 1512	[signature]	2/21/24 1512

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: 2 of 2

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Gen Probe

Project #: WO# : 92714724

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☑ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Other: ☐ Client

Custody Seal Present? ☑ Yes ☐ No Seals Intact? ☑ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 7/11/24 SH

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 730

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C): -0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*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#: 92714724

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	13 12 11	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
1		2	1			1																			X				
2		2	1			1																			X				
3		2	1			1																			X				
4		2	1			1																			X				
5		2	1			1																			X				
6		2	1			1																			X				
7		2	1			1																			X				
8		2	1			1																			X				
9		2	1			1	X																		X				
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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G	2/20/24	1625				6		X	X	X	X	X	See Remarks 015	
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G	2/20/24	1350				6		X	X	X	X	X	See Remarks 016	
YAT-YGWA-3D	WG	G	2/20/24	1135				6		X	X	X	X	X	See Remarks 017	
			~~2/20/24~~	~~1135~~												

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Brady
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Arcadis	Date/Time: 2/21/24 0810	Received by/Company: (Signature) Arcadis	Date/Time: 2/21/24 0810	Tracking Number:
Relinquished by/Company: (Signature) Arcadis	Date/Time: 2/21/24 1920	Received by/Company: (Signature) Pace	Date/Time: 2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Pace	Date/Time: 2/21/24 1812	Received by/Company: (Signature)	Date/Time: 2/21/24	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S1	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G	2/20/24	1701				6		X	X	X	X	X	See Remarks 018
YAT-YGWA-39	WG	G	2/20/24	1358				6		X	X	X	X	X	See Remarks 019
YAT-YGWA-40	WG	G	2/20/24	1510				6		X	X	X	X	X	See Remarks 020
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						6		X	X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample:

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) - Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware (Arcadis)	2/21/24 0725	[illegible] / Arcadis	2/21/24 0725	
[illegible] / Arcadis	2/21/24 1220	Ryan Williams / Pace	2/21/24 1220	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	2/21/24 1512	[illegible]	2/21/24 1512	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 2 of 3

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	2/20/24	1202	—	—	—	6		X	X	X	X	X	See Remarks 021	
YAT-YGWA-1D	WG	G	2/20/24	1324	—	—	—	6		X	X	X	X	X	See Remarks 022	
YAT-YGWA-2I	WG	G	2/20/24	1602	—	—	—	6		X	X	X	X	X	See Remarks 023	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		X	X	X	X	X	See Remarks	

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) Mark Chest
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time:		Date/Time:	Tracking Number:
Relinquished by/Company: (Signature) Arcadis	2/21/24 1220	Received by/Company: (Signature) Pace	2/21/24 1220	
Relinquished by/Company: (Signature) Pace	2/21/24 1512	Received by/Company: (Signature)	2/21/24 1512	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 2

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #: **WO# : 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☑ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*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#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

92714724

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for sample
Specify Container Size **										3	3	2	1	3		
Identify Container Preservative Type***										2	1	1	2	1		
Analysis Requested																
YAT-YGWA-30I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G	2/23/24	1100				6		X	X	X	X	X	See Remarks 624	
YAT-YGWA-39	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						6		X	X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						6		X	X	X	X	X	See Remarks	

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Wang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.
Additional metals (6010D): Ca, Na, K, Mg: For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) -
Signature: (Arcadis) David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time: 2/23/24 1730	Received by/Company: (Signature) Jessica Dow / Arcadis	Date/Time: 2/23/24 1730	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 2/24/24 1133	Received by/Company: (Signature) MTW	Date/Time: 2/24/24 1133	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #:

WO# : 92714724

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

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

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace ANALYTICAL SERVICES	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*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# : 92714724

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	1301N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples						
Sample ID	Type of Preservative	pH upon receipt	Date preservation adjusted	Time preservation adjusted	Amount of Preservative added	Lot #

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Lauren Hartley
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	470-620-6176
		E-Mail:	laucoker@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202451	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	App I/II Metals					Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-47	WG	G						6		X	X	X	X	X						See Remarks	
YAT-GWA-2	WG	G						6		X	X	X	X	X	X					See Remarks	
YAT-YGWA-4I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-5I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-5D	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-17S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-18S	WG	G	2/23/24	0925				6		X	X	X	X	X						See Remarks ULS	
YAT-YGWA-18I	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-20S	WG	G						6		X	X	X	X	X						See Remarks	
YAT-YGWA-21I	WG	G						6		X	X	X	X	X						See Remarks	

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg
Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:
Printed Name: (Arcadis) David Routh
Signature: (Arcadis)

Additional Instructions from Pace®:

Cooler: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
[signature]	2/23/24 1230	[signature] Arcadis	2/23/24 1230	
[signature] Arcadis	2/24/24 1133	MAW	2/24/24 1133	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt

Effective Date: 12/01/2023

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company - GA Power

Project #: **WO#: 92714724**

PM: BV Due Date: 03/14/24

CLIENT: 92-GP-Yates

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents:

Packing Material: ☑ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 4.3 Correction Factor: Add/Subtract (°C) +0.1

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

Cooler Temp Corrected (°C): 4.4

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Pace	DC#_Title: ENV-FRM-HUN1-0083 v03_Sample Condition Upon Receipt
	Effective Date: 12/01/2023

*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 #

Item#	BP4U-125 mL Plastic Unpreserved (N/A) (Cl-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)	BP1N	BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
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pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To:	Lauren Hartley
Phone #:	470-620-6176
E-Mail:	laucoker@southernco.com
Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452
Project Name:	Georgia Power Yatas
Site Collection Info/Facility ID (as applicable):	YAT Peaked Upgradient
Invoice To:	
Invoice E-Mail:	
Purchase Order # (if applicable):	GPC82474-0002
Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [ ] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Data Results Requested: Standard TAT

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Containers Size **: 3 3 2 1 3

Identify Container Preservative Type***: 2 1 1 2 1

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Wang

Accolum / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Biosassy (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals + Na, K, Mg	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Alkalinity (SM2320B)	Sample Comment	Preservation non-conformance identified for samples
YAT-UGRD-EB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						6		X	X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 026	
YAT-UGRD-FD-2	WG	G	2/23/24					6		X	X	X	X	X	See Remarks 027	

Customer Remarks / Special Conditions / Possible Hazards:

App III Metals: 6020B: B; 6010D: Ca

App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Additional metals (6010D): Ca, Na, K, Mg; For Alkalinity: report total, carbonate, and bicarbonate

Collected By:

Printed Name: (Arcadis) -

Signature: (Arcadis)

Additional Instructions from Pace®:

	Thermometer ID:	Correction Factor (°C):	Obs. Temp (°C)	Corrected Temp (°C)
Cooler				

	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Relinquished by/Company: (Signature)	2/23/24 1230	Received by/Company: (Signature) Arcadis	2/23/24 1230	
Relinquished by/Company: (Signature)	2/24/24 1133	Received by/Company: (Signature)	2/24/24 1130	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: 1 of 1

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	3/5/2024
Worklist:	77863
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3173418
MB concentration:	0.370
M/B 2 Sigma CSU:	0.335
MB MDC:	0.678
MB Numerical Performance Indicator:	2.16
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77863	LCSD77863
Count Date:	3/11/2024	3/11/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.542	37.542
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.820
Target Conc. (pCi/L, g, F):	4.576	4.580
Uncertainty (Calculated):	0.224	0.224
Result (pCi/L, g, F):	3.528	4.629
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.823	1.029
Numerical Performance Indicator:	-2.41	0.09
Percent Recovery:	77.10%	101.07%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS77863	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77863	
Sample Result (pCi/L, g, F):	3.528	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.823	
Sample Duplicate Result (pCi/L, g, F):	4.629	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.029	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-1.638	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	26.91%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

ET 3-12-24

VAL 3/12/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	3/5/2024
Worklist:	77864
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3173423
MB concentration:	0.310
M/B 2 Sigma CSU:	0.405
MB MDC:	0.865
MB Numerical Performance Indicator:	1.50
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77864	LCSD77864
Count Date:	3/11/2024	1/0/1900
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.540	119275490.841
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.820	0.822
Target Conc. (pCi/L, g, F):	4.575	14511106.482
Uncertainty (Calculated):	0.224	711044.218
Result (pCi/L, g, F):	4.580	#NUM!
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.069	#NUM!
Numerical Performance Indicator:	0.01	#NUM!
Percent Recovery:	100.11%	#NUM!
Status vs Numerical Indicator:	N/A	#NUM!
Status vs Recovery:	Pass	#NUM!
Upper % Recovery Limits:	135%	#NUM!
Lower % Recovery Limits:	60%	#NUM!

Duplicate Sample Assessment		
Sample I.D.:	LCS77864	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77864	
Sample Result (pCi/L, g, F):	4.580	
Sample Result 2 Sigma CSU (pCi/L, g, F):	1.069	
Sample Duplicate Result (pCi/L, g, F):	#NUM!	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	#NUM!	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	#NUM!	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	#NUM!	
Duplicate Status vs Numerical Indicator:	#NUM!	
Duplicate Status vs RPD:	#NUM!	
% RPD Limit:	#NUM!	

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

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

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

Comments:

#NUM!
#NUM!

VAL
3/12/24

3/13/24

RE LCSD - pellet lost

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	3/7/2024
Worklist:	77962
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3178917
MB concentration:	-0.056
M/B 2 Sigma CSU:	0.345
MB MDC:	0.817
MB Numerical Performance Indicator:	-0.32
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77962	LCSD77962
Count Date:	3/13/2024	3/13/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	37.516	37.516
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.821	0.818
Target Conc. (pCi/L, g, F):	4.571	4.585
Uncertainty (Calculated):	0.224	0.225
Result (pCi/L, g, F):	4.202	4.563
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.972	1.038
Numerical Performance Indicator:	-0.72	-0.04
Percent Recovery:	91.93%	99.53%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS77962	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD77962	
Sample Result (pCi/L, g, F):	4.202	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.972	
Sample Duplicate Result (pCi/L, g, F):	4.563	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.038	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-0.497	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.94%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

3/14/24

VAL
3/15/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/11/2024
Worklist:	77854
Matrix:	DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3172765
MB concentration:	-0.018
M/B Counting Uncertainty:	0.070
MB MDC:	0.223
MB Numerical Performance Indicator:	-0.49
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77854	LCSD77854
Count Date:	3/15/2024	3/15/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.505
Target Conc. (pCi/L, g, F):	4.977	4.956
Uncertainty (Calculated):	0.234	0.233
Result (pCi/L, g, F):	4.774	4.671
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.585	0.611
Numerical Performance Indicator:	-0.63	-0.86
Percent Recovery:	95.92%	94.24%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS77854	92714724020
Duplicate Sample I.D.	LCSD77854	92714724020DUP
Sample Result (pCi/L, g, F):	4.774	0.135
Sample Result Counting Uncertainty (pCi/L, g, F):	0.585	0.129
Sample Duplicate Result (pCi/L, g, F):	4.671	0.408
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.611	0.204
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.239	-2.215
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	1.78%	100.46%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Fail***
% RPD Limit:	25%	25%

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

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

TJD 3/15/24

Comments:

~~***Batch must be re-prepped due to unacceptable precision.~~ NA JJT 3-15-24

3/15/24

Quality Control Sample Performance Assessment

Pace Analytical™
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Test:	Ra-226
Analyst:	SLC
Date:	3/8/2024
Worklist:	77855
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3172766
MB concentration:	0.014
M/B 2 Sigma CSU:	0.137
MB MDC:	0.359
MB Numerical Performance Indicator:	0.19
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77855	LCSD77855
Count Date:	3/11/2024	3/11/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.503	0.503
Target Conc. (pCi/L, g, F):	4.974	4.978
Uncertainty (Calculated):	0.234	0.234
Result (pCi/L, g, F):	4.446	4.338
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.883	0.869
Numerical Performance Indicator:	-1.13	-1.39
Percent Recovery:	89.38%	87.15%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS77855	92714725002
Duplicate Sample I.D.	LCSD77855	92714725002DUP
Sample Result (pCi/L, g, F):	4.446	0.039
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.883	0.133
Sample Duplicate Result (pCi/L, g, F):	4.338	0.033
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.869	0.130
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.170	0.069
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.52%	18.09%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

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

Comments:

CT 3-12-24

WAM 3/11/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	3/12/2024
Worklist:	77994
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3180680
MB concentration:	-0.053
M/B 2 Sigma CSU:	0.080
MB MDC:	0.258
MB Numerical Performance Indicator:	-1.31
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS77994	LCSD77994
Count Date:	3/18/2024	3/18/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.025	25.025
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.509	0.506
Target Conc. (pCi/L, g, F):	4.913	4.945
Uncertainty (Calculated):	0.231	0.232
Result (pCi/L, g, F):	4.894	5.111
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.898	0.955
Numerical Performance Indicator:	-0.04	0.33
Percent Recovery:	99.62%	103.35%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS77994	92714724027
Duplicate Sample I.D.	LCSD77994	92714724027DUP
Sample Result (pCi/L, g, F):	4.894	0.021
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.898	0.077
Sample Duplicate Result (pCi/L, g, F):	5.111	0.020
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.955	0.073
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.324	0.006
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	3.68%	1.57%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

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

Comments:

CT 3-18-24

LAM 3/18/24

August 2024

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92749199 and 92749203

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

Report #55995R
Review Level: Tier II
Project: 30113037.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92749199 and 92749203 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWC-26S	92749199001 92749203001	Water	8/21/2024		X	X	X
YAT-YGWC-26I	92749199002 92749203002	Water	8/21/2024		X	X	X
YAT-YGWC-27I	92749199003 92749203003	Water	8/21/2024		X	X	X
YAT-AP2-EB-1	92749199004 92749203004	Water	8/21/2024		X	X	X
YAT-AP2-FB-1	92749199005 92749203005	Water	8/21/2024		X	X	X
YAT-YGWC-27S	92749199006 92749203006	Water	8/22/2024		X	X	X
YAT-YGWC-28S	92749199007 92749203007	Water	8/22/2024		X	X	X
YAT-YGWC-28I	92749199008 92749203008	Water	8/22/2024		X	X	X
YAT-AP2-FD-1	92749199009 92749203009	Water	8/22/2024	YAT-YGWC-28I	X	X	X
YAT-YGWC-29IB	92749199010 92749203010	Water	8/22/2024		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.

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) 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.

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.

Arsenic was detected in the associated field blank YAT-AP2 FB-1; however, the associated sample results were not detected. No qualification of the sample results was required.

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis was performed using sample YAT-YGWC-28S in association with SW-846 6010D analysis. The concentration of calcium in the unspiked analysis were greater than four-times the spike concentration, hence, the SW-846 6010D MS/MSD sample results were not evaluated for this analyte.

The MS/MSD analysis performed using sample YAT-YGWC-26S in association with SW-846 7470A analysis exhibited recoveries within the control limits.

MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6020B.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6020B and SW-846 7470A. The MS/MSD recoveries exhibited acceptable RPDs.

Laboratory duplicate or MS/MSD analysis was not performed using a sample from this SDG in association with SW-846 6010D.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-28I / YAT-AP2-FD-1	Calcium	28.8	29.9	3.7%
	Barium	0.065	0.063	3.1%
	Boron	1.8	1.7	5.7%
	Cadmium	0.00016 J	0.00015 J	AC
	Lithium	0.0060 J	0.0058 J	
	Molybdenum	0.0015 J	0.0015 J	

Note:
AC = Acceptable

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
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
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWC-26S YAT-YGWC-26I YAT-YGWC-27I YAT-YGWC-27S YAT-YGWC-28S YAT-YGWC-28I YAT-AP2-FD-1 YAT-YGWC-29IB	TDS (EB, FB)	Detected sample results >RL and <BAL	“J+” at detected sample concentration

Notes:
EB Equipment blank
FB Field blank
RL Reporting limit

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed on sample location YAT-YGWC-26I in association with anions analysis exhibited recoveries outside control limits as presented in the table below.

Sample Location	Analyte	MS Recovery	MSD Recovery
YAT-YGWC-26I	Sulfate	61%	67%

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

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

3.2 Laboratory Duplicate Analysis

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

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

Laboratory duplicate analysis was not performed on sample location from this SDG in association with TDS analysis.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-28I / YAT-AP2-FD-1	TDS	193	221	13.5%
	Chloride	10.9	11.0	0.9%
	Fluoride	0.080 J	0.080 J	AC
	Sulfate	9.0	8.8	2.2%

Note:
AC = Acceptable

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

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

General Chemistry: SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/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 (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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 and Radium-228 were detected in the method blanks, however, the activity was measured as less than the uncertainty and MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

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

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

MS analysis was not performed using a sample from these SDGs.

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

The laboratory duplicate performed on sample location YAT-YGWC-28S in association with Radium-226 analysis exhibited an acceptable difference between the results.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with Radium-228 analysis.

4. Field Duplicate Analysis

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

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

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWC-28I / YTC-AP2-FD-1	Radium-226	0.100 U ± 0.127	0.107 U ± 0.105	AC
	Radium-228	0.662 U ± 0.549	0.197 U ± 0.258	
	Total Radium	0.762 U ± 0.676	0.304 U ± 0.363	

Note:
AC = Acceptable

The results were below the MDC in the parent sample YAT-YGWA-28I and field duplicate sample YAT-AP2-FD-1.

5. Tracer or Carrier

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

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

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

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		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: 

DATE: September 30, 2024

PEER REVIEW: Dennis Capria

DATE: October 2, 2024

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP 2		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-26S	WG	G	8/21/24	1530	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-26I	WG	G	8/21/24	1623	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-27S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-27I	WG	G	8/21/24	1730	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-28S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-28I	WG	G						5		X	X	X	X	See Remarks
YAT-AP2-FD-1	WG	G						5		X	X	X	X	See Remarks
YAT-AP2-EB-1	WG	G	8/21/24	1750	—	—		5		X	X	X	X	See Remarks
YAT-AP2-FB-1	WG	G	8/21/24	1630	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-29IB	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ARCADIS	8/22/24 0730	/Arcadis	8/22/24 0730	
Arcadis	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	8/22/24 1215		8/22/24 1215	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-2		Purchase Order # (if applicable):	GPC82474-0002
		Quote #	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
	Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:	
	Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Lab Use Only	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-26S	WG	G						5		X	X	X	X	Proj. Mgr: Bonnie Vang	See Remarks	
YAT-YGWC-26I	WG	G						5		X	X	X	X	Acct#Num / Client ID:	See Remarks	
YAT-YGWC-27S	WG	G	8/22/24	1108	—	—		5		X	X	X	X	Table #	See Remarks	
YAT-YGWC-27I	WG	G						5		X	X	X	X	Profile / Template: 16561	See Remarks	
YAT-YGWC-28S	WG	G	8/22/24	1750	—	—		5		X	X	X	X	Prelog / Bottle Ord. ID:	See Remarks	
YAT-YGWC-28I	WG	G	8/22/24	1345	—	—		5		X	X	X	X		See Remarks	
YAT-AP2-FD-1	WG	G	8/22/24	—	—	—		5		X	X	X	X		See Remarks	
YAT-AP2 EB 1	WG	G						5		X	X	X	X		See Remarks	
YAT-AP2-FB-1	WG	G						5		X	X	X	X		See Remarks	
YAT-YGWC-29IB	WG	G	8/22/24	1216	—	—		5		X	X	X	X		See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	ARCADIS	Date/Time: 8/23/24 1130	Received by/Company: (Signature)	Arcadis	Date/Time: 8/23/24 1130
Relinquished by/Company: (Signature)	Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)		Date/Time: 8/23/24 1350
Relinquished by/Company: (Signature)		Date/Time:	Received by/Company: (Signature)		Date/Time:
Relinquished by/Company: (Signature)		Date/Time:	Received by/Company: (Signature)		Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at: https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92749199	YAT-YGWC-26S	SM2540C	Total Dissolved Solids	215	mg/L	J+	Blank contamination
	YAT-YGWC-26I	SM2540C	Total Dissolved Solids	237	mg/L	J+	Blank contamination
		EPA 300.0	Sulfate	84	mg/L	J	MS %R, MSD %R
	YAT-YGWC-27I	SM2540C	Total Dissolved Solids	184	mg/L	J+	Blank contamination
	YAT-YGWC-27S	SM2540C	Total Dissolved Solids	130	mg/L	J+	Blank contamination
	YAT-YGWC-28S	SM2540C	Total Dissolved Solids	226	mg/L	J+	Blank contamination
	YAT-YGWC-28I	SM2540C	Total Dissolved Solids	193	mg/L	J+	Blank contamination
	YAT-AP2-FD-1	SM2540C	Total Dissolved Solids	221	mg/L	J+	Blank contamination
	YAT-YGWC-29IB	SM2540C	Total Dissolved Solids	154	mg/L	J+	Blank contamination
92749203	No qualifiers assigned						

Abbreviations:

mg/L = milligrams per liter
MS = matrix spike
MSD = matrix spike duplicate
%R = percent recovery

Qualifiers:

J+ = estimated result with possible high bias
J = estimated result

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 09, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-2
Pace Project No.: 92749199

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 22, 2024 and August 23, 2024. 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 - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-2
Pace Project No.: 92749199

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
Virginia Certification #: 460204

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-2
Pace Project No.: 92749199

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92749199001	**YAT-YGWC-26S**	Water	08/21/24 15:30	08/22/24 09:25
92749199002	**YAT-YGWC-26I**	Water	08/21/24 16:23	08/22/24 09:25
92749199003	**YAT-YGWC-27I**	Water	08/21/24 17:30	08/22/24 09:25
92749199004	**YAT-AP2-EB-1**	Water	08/21/24 17:50	08/22/24 09:25
92749199005	**YAT-AP2-FB-1**	Water	08/21/24 16:30	08/22/24 09:25
92749199006	**YAT-YGWC-27S**	Water	08/22/24 11:08	08/23/24 13:50
92749199007	**YAT-YGWC-28S**	Water	08/22/24 17:50	08/23/24 13:50
92749199008	**YAT-YGWC-28I**	Water	08/22/24 13:45	08/23/24 13:50
92749199009	**YAT-AP2-FD-1**	Water	08/22/24 00:00	08/23/24 13:50
92749199010	**YAT-YGWC-29IB**	Water	08/22/24 12:16	08/23/24 13:50

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-2
Pace Project No.: 92749199

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92749199001	**YAT-YGWC-26S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749199002	**YAT-YGWC-26I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749199003	**YAT-YGWC-27I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749199004	**YAT-AP2-EB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749199005	**YAT-AP2-FB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749199006	**YAT-YGWC-27S**	EPA 6010D	AJM	1
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749199007	**YAT-YGWC-28S**	EPA 6010D	MJS2	1
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749199008	**YAT-YGWC-28I**	EPA 6010D	MJS2	1
		EPA 6020B	MT1	13

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-2
Pace Project No.: 92749199

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749199009	**YAT-AP2-FD-1**	EPA 6010D	MJS2	1
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92749199010	**YAT-YGWC-29IB**	EPA 6010D	MJS2	1
		EPA 6020B	MT1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92749199

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749199001	**YAT-YGWC-26S**					
EPA 6010D	Calcium	11.6	mg/L	1.0	08/26/24 10:13	
EPA 6020B	Barium	0.026	mg/L	0.0050	08/30/24 20:15	
EPA 6020B	Boron	0.68	mg/L	0.040	08/30/24 20:15	
EPA 6020B	Cobalt	0.00094J	mg/L	0.0050	08/30/24 20:15	
SM 2540C-2015	Total Dissolved Solids	215	mg/L	25.0	08/27/24 16:41	
EPA 300.0 Rev 2.1 1993	Chloride	15.2	mg/L	1.0	08/23/24 15:52	
EPA 300.0 Rev 2.1 1993	Sulfate	90.9	mg/L	1.0	08/23/24 15:52	
92749199002	**YAT-YGWC-26I**					
EPA 6010D	Calcium	16.7	mg/L	1.0	08/26/24 10:20	
EPA 6020B	Barium	0.058	mg/L	0.0050	08/30/24 20:19	
EPA 6020B	Boron	0.59	mg/L	0.040	08/30/24 20:19	
EPA 6020B	Lithium	0.0072J	mg/L	0.030	08/30/24 20:19	
EPA 6020B	Selenium	0.0047J	mg/L	0.0050	08/30/24 20:19	
SM 2540C-2015	Total Dissolved Solids	237	mg/L	25.0	08/27/24 16:41	
EPA 300.0 Rev 2.1 1993	Chloride	15.8	mg/L	1.0	08/23/24 01:10	
EPA 300.0 Rev 2.1 1993	Fluoride	0.098J	mg/L	0.10	08/23/24 01:10	
EPA 300.0 Rev 2.1 1993	Sulfate	83.5	mg/L	1.0	08/23/24 01:10	M1
92749199003	**YAT-YGWC-27I**					
EPA 6010D	Calcium	26.9	mg/L	1.0	08/26/24 10:23	
EPA 6020B	Barium	0.061	mg/L	0.0050	08/30/24 20:22	
EPA 6020B	Boron	1.9	mg/L	0.040	08/30/24 20:22	
EPA 6020B	Cobalt	0.012	mg/L	0.0050	08/30/24 20:22	
EPA 6020B	Lithium	0.0068J	mg/L	0.030	08/30/24 20:22	
EPA 6020B	Molybdenum	0.0016J	mg/L	0.010	08/30/24 20:22	
SM 2540C-2015	Total Dissolved Solids	184	mg/L	25.0	08/27/24 16:41	
EPA 300.0 Rev 2.1 1993	Chloride	12.2	mg/L	1.0	08/23/24 01:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/23/24 01:53	
EPA 300.0 Rev 2.1 1993	Sulfate	4.2	mg/L	1.0	08/23/24 01:53	
92749199004	**YAT-AP2-EB-1**					
SM 2540C-2015	Total Dissolved Solids	36.0	mg/L	25.0	08/27/24 16:42	
92749199005	**YAT-AP2-FB-1**					
EPA 6020B	Arsenic	0.0019J	mg/L	0.0050	08/30/24 17:17	B
SM 2540C-2015	Total Dissolved Solids	169	mg/L	25.0	08/27/24 16:42	
92749199006	**YAT-YGWC-27S**					
EPA 6010D	Calcium	21.3	mg/L	1.0	08/28/24 20:43	
EPA 6020B	Barium	0.051	mg/L	0.0050	09/03/24 17:32	
EPA 6020B	Boron	0.92	mg/L	0.040	09/03/24 17:32	
EPA 6020B	Cobalt	0.0014J	mg/L	0.0050	09/03/24 17:32	
SM 2540C-2015	Total Dissolved Solids	130	mg/L	25.0	08/28/24 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	13.9	mg/L	1.0	08/27/24 06:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.075J	mg/L	0.10	08/27/24 06:33	
EPA 300.0 Rev 2.1 1993	Sulfate	15.7	mg/L	1.0	08/27/24 06:33	
92749199007	**YAT-YGWC-28S**					
EPA 6010D	Calcium	30.4	mg/L	1.0	08/30/24 21:27	M1

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2
Pace Project No.: 92749199

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749199007	**YAT-YGWC-28S**					
EPA 6020B	Barium	0.20	mg/L	0.0050	09/03/24 17:36	
EPA 6020B	Boron	2.1	mg/L	0.040	09/03/24 17:36	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	09/03/24 17:36	
EPA 6020B	Molybdenum	0.00063J	mg/L	0.010	09/03/24 17:36	
SM 2540C-2015	Total Dissolved Solids	226	mg/L	25.0	08/28/24 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	18.2	mg/L	1.0	08/27/24 06:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14	mg/L	0.10	08/27/24 06:48	
EPA 300.0 Rev 2.1 1993	Sulfate	5.5	mg/L	1.0	08/27/24 06:48	
92749199008	**YAT-YGWC-28I**					
EPA 6010D	Calcium	28.8	mg/L	1.0	08/30/24 21:39	
EPA 6020B	Barium	0.065	mg/L	0.0050	09/03/24 17:40	
EPA 6020B	Boron	1.8	mg/L	0.040	09/03/24 17:40	
EPA 6020B	Cadmium	0.00016J	mg/L	0.00050	09/03/24 17:40	
EPA 6020B	Lithium	0.0060J	mg/L	0.030	09/03/24 17:40	
EPA 6020B	Molybdenum	0.0015J	mg/L	0.010	09/03/24 17:40	
SM 2540C-2015	Total Dissolved Solids	193	mg/L	25.0	08/28/24 13:55	
EPA 300.0 Rev 2.1 1993	Chloride	10.9	mg/L	1.0	08/27/24 07:02	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	08/27/24 07:02	
EPA 300.0 Rev 2.1 1993	Sulfate	9.0	mg/L	1.0	08/27/24 07:02	
92749199009	**YAT-AP2-FD-1**					
EPA 6010D	Calcium	29.9	mg/L	1.0	08/30/24 21:43	
EPA 6020B	Barium	0.063	mg/L	0.0050	09/03/24 17:43	
EPA 6020B	Boron	1.7	mg/L	0.040	09/03/24 17:43	
EPA 6020B	Cadmium	0.00015J	mg/L	0.00050	09/03/24 17:43	
EPA 6020B	Lithium	0.0058J	mg/L	0.030	09/03/24 17:43	
EPA 6020B	Molybdenum	0.0015J	mg/L	0.010	09/03/24 17:43	
SM 2540C-2015	Total Dissolved Solids	221	mg/L	25.0	08/28/24 13:56	
EPA 300.0 Rev 2.1 1993	Chloride	11.0	mg/L	1.0	08/27/24 07:16	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	08/27/24 07:16	
EPA 300.0 Rev 2.1 1993	Sulfate	8.8	mg/L	1.0	08/27/24 07:16	
92749199010	**YAT-YGWC-29IB**					
EPA 6010D	Calcium	11.2	mg/L	1.0	08/30/24 21:46	
EPA 6020B	Barium	0.076	mg/L	0.0050	09/03/24 17:47	
EPA 6020B	Boron	0.82	mg/L	0.040	09/03/24 17:47	
EPA 6020B	Cadmium	0.00014J	mg/L	0.00050	09/03/24 17:47	
EPA 6020B	Cobalt	0.0061	mg/L	0.0050	09/03/24 17:47	
EPA 6020B	Lithium	0.0044J	mg/L	0.030	09/03/24 17:47	
SM 2540C-2015	Total Dissolved Solids	154	mg/L	25.0	08/28/24 13:56	
EPA 300.0 Rev 2.1 1993	Chloride	10.5	mg/L	1.0	08/27/24 07:31	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.10	08/27/24 07:31	
EPA 300.0 Rev 2.1 1993	Sulfate	39.7	mg/L	1.0	08/27/24 07:31	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-YGWC-26S **Lab ID: 92749199001** Collected: 08/21/24 15:30 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.6**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 10:13	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:01	08/30/24 20:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 20:15	7440-38-2	
Barium	**0.026**	mg/L	0.0050	0.00047	1	08/24/24 14:01	08/30/24 20:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:01	08/30/24 20:15	7440-41-7	
Boron	**0.68**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 20:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:01	08/30/24 20:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:01	08/30/24 20:15	7440-47-3	
Cobalt	**0.00094J**	mg/L	0.0050	0.00032	1	08/24/24 14:01	08/30/24 20:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:01	08/30/24 20:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/24/24 14:01	08/30/24 20:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 20:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:01	08/30/24 20:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:01	08/30/24 20:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 17:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**215**	mg/L	25.0	25.0	1		08/27/24 16:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.2**	mg/L	1.0	0.60	1		08/23/24 15:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 15:52	16984-48-8	
Sulfate	**90.9**	mg/L	1.0	0.50	1		08/23/24 15:52	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-YGWC-26I **Lab ID: 92749199002** Collected: 08/21/24 16:23 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**16.7**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 10:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:01	08/30/24 20:19	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 20:19	7440-38-2	
Barium	**0.058**	mg/L	0.0050	0.00047	1	08/24/24 14:01	08/30/24 20:19	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:01	08/30/24 20:19	7440-41-7	
Boron	**0.59**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 20:19	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:01	08/30/24 20:19	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:01	08/30/24 20:19	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:01	08/30/24 20:19	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:01	08/30/24 20:19	7439-92-1	
Lithium	**0.0072J**	mg/L	0.030	0.0016	1	08/24/24 14:01	08/30/24 20:19	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 20:19	7439-98-7	
Selenium	**0.0047J**	mg/L	0.0050	0.00096	1	08/24/24 14:01	08/30/24 20:19	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:01	08/30/24 20:19	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 17:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**237**	mg/L	25.0	25.0	1		08/27/24 16:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**15.8**	mg/L	1.0	0.60	1		08/23/24 01:10	16887-00-6	
Fluoride	**0.098J**	mg/L	0.10	0.050	1		08/23/24 01:10	16984-48-8	
Sulfate	**83.5**	mg/L	1.0	0.50	1		08/23/24 01:10	14808-79-8	M1

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-YGWC-27I **Lab ID: 92749199003** Collected: 08/21/24 17:30 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**26.9**	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 10:23	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:01	08/30/24 20:22	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 20:22	7440-38-2	
Barium	**0.061**	mg/L	0.0050	0.00047	1	08/24/24 14:01	08/30/24 20:22	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:01	08/30/24 20:22	7440-41-7	
Boron	**1.9**	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 20:22	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:01	08/30/24 20:22	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:01	08/30/24 20:22	7440-47-3	
Cobalt	**0.012**	mg/L	0.0050	0.00032	1	08/24/24 14:01	08/30/24 20:22	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:01	08/30/24 20:22	7439-92-1	
Lithium	**0.0068J**	mg/L	0.030	0.0016	1	08/24/24 14:01	08/30/24 20:22	7439-93-2	
Molybdenum	**0.0016J**	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 20:22	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:01	08/30/24 20:22	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:01	08/30/24 20:22	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 17:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**184**	mg/L	25.0	25.0	1		08/27/24 16:41		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.2**	mg/L	1.0	0.60	1		08/23/24 01:53	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		08/23/24 01:53	16984-48-8	
Sulfate	**4.2**	mg/L	1.0	0.50	1		08/23/24 01:53	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-AP2-EB-1 **Lab ID: 92749199004** Collected: 08/21/24 17:50 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 12:03	08/26/24 10:31	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:01	08/30/24 20:30	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:01	08/30/24 20:30	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/24/24 14:01	08/30/24 20:30	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:01	08/30/24 20:30	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/24/24 14:01	08/30/24 20:30	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:01	08/30/24 20:30	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:01	08/30/24 20:30	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:01	08/30/24 20:30	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:01	08/30/24 20:30	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/24/24 14:01	08/30/24 20:30	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:01	08/30/24 20:30	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:01	08/30/24 20:30	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:01	08/30/24 20:30	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 17:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**36.0**	mg/L	25.0	25.0	1		08/27/24 16:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/23/24 00:27	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 00:27	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/23/24 00:27	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-AP2-FB-1 **Lab ID: 92749199005** Collected: 08/21/24 16:30 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 14:36	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:17	7440-36-0	
Arsenic	**0.0019J**	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:17	7440-38-2	B
Barium	ND	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:17	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:17	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:17	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:17	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:17	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:17	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:17	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:17	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:17	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 17:59	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**169**	mg/L	25.0	25.0	1		08/27/24 16:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/23/24 00:41	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 00:41	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/23/24 00:41	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-YGWC-27S **Lab ID: 92749199006** Collected: 08/22/24 11:08 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**21.3**	mg/L	1.0	0.12	1	08/28/24 15:20	08/28/24 20:43	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/28/24 11:41	09/03/24 17:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/28/24 11:41	09/03/24 17:32	7440-38-2	
Barium	**0.051**	mg/L	0.0050	0.00047	1	08/28/24 11:41	09/03/24 17:32	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/28/24 11:41	09/03/24 17:32	7440-41-7	
Boron	**0.92**	mg/L	0.040	0.012	1	08/28/24 11:41	09/03/24 17:32	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/28/24 11:41	09/03/24 17:32	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/28/24 11:41	09/03/24 17:32	7440-47-3	
Cobalt	**0.0014J**	mg/L	0.0050	0.00032	1	08/28/24 11:41	09/03/24 17:32	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/28/24 11:41	09/03/24 17:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/28/24 11:41	09/03/24 17:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/28/24 11:41	09/03/24 17:32	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/28/24 11:41	09/03/24 17:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/28/24 11:41	09/03/24 17:32	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 18:05	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**130**	mg/L	25.0	25.0	1		08/28/24 13:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**13.9**	mg/L	1.0	0.60	1		08/27/24 06:33	16887-00-6	
Fluoride	**0.075J**	mg/L	0.10	0.050	1		08/27/24 06:33	16984-48-8	
Sulfate	**15.7**	mg/L	1.0	0.50	1		08/27/24 06:33	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-YGWC-28S **Lab ID: 92749199007** Collected: 08/22/24 17:50 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.4**	mg/L	1.0	0.12	1	08/28/24 16:53	08/30/24 21:27	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/28/24 11:41	09/03/24 17:36	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/28/24 11:41	09/03/24 17:36	7440-38-2	
Barium	**0.20**	mg/L	0.0050	0.00047	1	08/28/24 11:41	09/03/24 17:36	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/28/24 11:41	09/03/24 17:36	7440-41-7	
Boron	**2.1**	mg/L	0.040	0.012	1	08/28/24 11:41	09/03/24 17:36	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/28/24 11:41	09/03/24 17:36	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/28/24 11:41	09/03/24 17:36	7440-47-3	
Cobalt	**0.00085J**	mg/L	0.0050	0.00032	1	08/28/24 11:41	09/03/24 17:36	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/28/24 11:41	09/03/24 17:36	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/28/24 11:41	09/03/24 17:36	7439-93-2	
Molybdenum	**0.00063J**	mg/L	0.010	0.00062	1	08/28/24 11:41	09/03/24 17:36	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/28/24 11:41	09/03/24 17:36	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/28/24 11:41	09/03/24 17:36	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 18:07	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**226**	mg/L	25.0	25.0	1		08/28/24 13:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**18.2**	mg/L	1.0	0.60	1		08/27/24 06:48	16887-00-6	
Fluoride	**0.14**	mg/L	0.10	0.050	1		08/27/24 06:48	16984-48-8	
Sulfate	**5.5**	mg/L	1.0	0.50	1		08/27/24 06:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-YGWC-28I **Lab ID: 92749199008** Collected: 08/22/24 13:45 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**28.8**	mg/L	1.0	0.12	1	08/28/24 16:53	08/30/24 21:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/28/24 11:41	09/03/24 17:40	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/28/24 11:41	09/03/24 17:40	7440-38-2	
Barium	**0.065**	mg/L	0.0050	0.00047	1	08/28/24 11:41	09/03/24 17:40	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/28/24 11:41	09/03/24 17:40	7440-41-7	
Boron	**1.8**	mg/L	0.040	0.012	1	08/28/24 11:41	09/03/24 17:40	7440-42-8	
Cadmium	**0.00016J**	mg/L	0.00050	0.00010	1	08/28/24 11:41	09/03/24 17:40	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/28/24 11:41	09/03/24 17:40	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/28/24 11:41	09/03/24 17:40	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/28/24 11:41	09/03/24 17:40	7439-92-1	
Lithium	**0.0060J**	mg/L	0.030	0.0016	1	08/28/24 11:41	09/03/24 17:40	7439-93-2	
Molybdenum	**0.0015J**	mg/L	0.010	0.00062	1	08/28/24 11:41	09/03/24 17:40	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/28/24 11:41	09/03/24 17:40	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/28/24 11:41	09/03/24 17:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 18:15	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**193**	mg/L	25.0	25.0	1		08/28/24 13:55		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.9**	mg/L	1.0	0.60	1		08/27/24 07:02	16887-00-6	
Fluoride	**0.080J**	mg/L	0.10	0.050	1		08/27/24 07:02	16984-48-8	
Sulfate	**9.0**	mg/L	1.0	0.50	1		08/27/24 07:02	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-AP2-FD-1 **Lab ID: 92749199009** Collected: 08/22/24 00:00 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**29.9**	mg/L	1.0	0.12	1	08/28/24 16:53	08/30/24 21:43	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/28/24 11:41	09/03/24 17:43	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/28/24 11:41	09/03/24 17:43	7440-38-2	
Barium	**0.063**	mg/L	0.0050	0.00047	1	08/28/24 11:41	09/03/24 17:43	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/28/24 11:41	09/03/24 17:43	7440-41-7	
Boron	**1.7**	mg/L	0.040	0.012	1	08/28/24 11:41	09/03/24 17:43	7440-42-8	
Cadmium	**0.00015J**	mg/L	0.00050	0.00010	1	08/28/24 11:41	09/03/24 17:43	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/28/24 11:41	09/03/24 17:43	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/28/24 11:41	09/03/24 17:43	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/28/24 11:41	09/03/24 17:43	7439-92-1	
Lithium	**0.0058J**	mg/L	0.030	0.0016	1	08/28/24 11:41	09/03/24 17:43	7439-93-2	
Molybdenum	**0.0015J**	mg/L	0.010	0.00062	1	08/28/24 11:41	09/03/24 17:43	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/28/24 11:41	09/03/24 17:43	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/28/24 11:41	09/03/24 17:43	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 18:18	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**221**	mg/L	25.0	25.0	1		08/28/24 13:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**11.0**	mg/L	1.0	0.60	1		08/27/24 07:16	16887-00-6	
Fluoride	**0.080J**	mg/L	0.10	0.050	1		08/27/24 07:16	16984-48-8	
Sulfate	**8.8**	mg/L	1.0	0.50	1		08/27/24 07:16	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YAT AP-2
Pace Project No.: 92749199

Sample: YAT-YGWC-29IB **Lab ID: 92749199010** Collected: 08/22/24 12:16 Received: 08/23/24 13:50 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**11.2**	mg/L	1.0	0.12	1	08/28/24 16:53	08/30/24 21:46	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/28/24 11:41	09/03/24 17:47	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/28/24 11:41	09/03/24 17:47	7440-38-2	
Barium	**0.076**	mg/L	0.0050	0.00047	1	08/28/24 11:41	09/03/24 17:47	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/28/24 11:41	09/03/24 17:47	7440-41-7	
Boron	**0.82**	mg/L	0.040	0.012	1	08/28/24 11:41	09/03/24 17:47	7440-42-8	
Cadmium	**0.00014J**	mg/L	0.00050	0.00010	1	08/28/24 11:41	09/03/24 17:47	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/28/24 11:41	09/03/24 17:47	7440-47-3	
Cobalt	**0.0061**	mg/L	0.0050	0.00032	1	08/28/24 11:41	09/03/24 17:47	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/28/24 11:41	09/03/24 17:47	7439-92-1	
Lithium	**0.0044J**	mg/L	0.030	0.0016	1	08/28/24 11:41	09/03/24 17:47	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/28/24 11:41	09/03/24 17:47	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/28/24 11:41	09/03/24 17:47	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/28/24 11:41	09/03/24 17:47	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 13:00	09/05/24 18:20	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**154**	mg/L	25.0	25.0	1		08/28/24 13:56		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**10.5**	mg/L	1.0	0.60	1		08/27/24 07:31	16887-00-6	
Fluoride	**0.071J**	mg/L	0.10	0.050	1		08/27/24 07:31	16984-48-8	
Sulfate	**39.7**	mg/L	1.0	0.50	1		08/27/24 07:31	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878070
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749199001, 92749199002, 92749199003, 92749199004

METHOD BLANK: 4523022 Matrix: Water
Associated Lab Samples: 92749199001, 92749199002, 92749199003, 92749199004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 09:50	

LABORATORY CONTROL SAMPLE: 4523023

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	110	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523024 4523025

Parameter	Units	92749173004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	111	1	1	114	108	362	-258	75-125	6	20	M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878071
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749199005

METHOD BLANK: 4523026 Matrix: Water
Associated Lab Samples: 92749199005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 14:29	

LABORATORY CONTROL SAMPLE: 4523027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523028 4523029

Parameter	Units	92748851022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	19.7	1	1	21.1	20.6	149	99	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878921
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749199006

METHOD BLANK: 4526909 Matrix: Water
Associated Lab Samples: 92749199006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/28/24 18:32	

LABORATORY CONTROL SAMPLE: 4526910

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: 4526911 4526912

Parameter	Units	92749173009 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	14.4	1	1	15.0	15.2	64	84	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878984
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749199007, 92749199008, 92749199009, 92749199010

METHOD BLANK: 4527193 Matrix: Water
Associated Lab Samples: 92749199007, 92749199008, 92749199009, 92749199010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/30/24 21:13	

LABORATORY CONTROL SAMPLE: 4527194

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: 4527195 4527196

Parameter	Units	92749199007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	30.4	1	1	31.3	31.8	86	137	75-125	2	20	M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878079
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749199001, 92749199002, 92749199003, 92749199004

METHOD BLANK: 4523054 Matrix: Water
Associated Lab Samples: 92749199001, 92749199002, 92749199003, 92749199004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/30/24 18:43	
Arsenic	mg/L	ND	0.0050	0.00084	08/30/24 18:43	
Barium	mg/L	ND	0.0050	0.00047	08/30/24 18:43	
Beryllium	mg/L	ND	0.00050	0.000094	08/30/24 18:43	
Boron	mg/L	ND	0.040	0.012	08/30/24 18:43	
Cadmium	mg/L	ND	0.00050	0.00010	08/30/24 18:43	
Chromium	mg/L	ND	0.0050	0.0019	08/30/24 18:43	
Cobalt	mg/L	ND	0.0050	0.00032	08/30/24 18:43	
Lead	mg/L	ND	0.0010	0.00016	08/30/24 18:43	
Lithium	mg/L	ND	0.030	0.0016	08/30/24 18:43	
Molybdenum	mg/L	ND	0.010	0.00062	08/30/24 18:43	
Selenium	mg/L	ND	0.0050	0.00096	08/30/24 18:43	
Thallium	mg/L	ND	0.0010	0.00038	08/30/24 18:43	

LABORATORY CONTROL SAMPLE: 4523055

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	0.10	101	80-120	
Beryllium	mg/L	0.1	0.10	102	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	104	80-120	
Lithium	mg/L	0.1	0.10	103	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523056 4523057

Parameter	Units	92749173004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	0.0085	0.1	0.1	0.11	0.11	100	100	75-125	1	20	
Arsenic	mg/L	0.0037J	0.1	0.1	0.11	0.11	103	103	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523056 4523057

Parameter	Units	92749173004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.022	0.1	0.1	0.13	0.13	104	105	75-125	1	20	
Beryllium	mg/L	0.0011	0.1	0.1	0.095	0.095	94	94	75-125	0	20	
Boron	mg/L	7.6	1	1	9.0	9.0	137	133	75-125	0	20	M1
Cadmium	mg/L	0.00081	0.1	0.1	0.10	0.099	99	98	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	102	75-125	1	20	
Cobalt	mg/L	0.0037J	0.1	0.1	0.11	0.10	103	101	75-125	2	20	
Lead	mg/L	0.00020J	0.1	0.1	0.095	0.095	95	95	75-125	0	20	
Lithium	mg/L	0.017J	0.1	0.1	0.11	0.11	97	95	75-125	1	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Selenium	mg/L	0.12	0.1	0.1	0.22	0.22	105	104	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.093	0.094	93	93	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878080
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92749199005

METHOD BLANK: 4523058 Matrix: Water
Associated Lab Samples: 92749199005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/30/24 17:08	
Arsenic	mg/L	0.0019J	0.0050	0.00084	08/30/24 17:08	
Barium	mg/L	ND	0.0050	0.00047	08/30/24 17:08	
Beryllium	mg/L	ND	0.00050	0.000094	08/30/24 17:08	
Boron	mg/L	ND	0.040	0.012	08/30/24 17:08	
Cadmium	mg/L	ND	0.00050	0.00010	08/30/24 17:08	
Chromium	mg/L	ND	0.0050	0.0019	08/30/24 17:08	
Cobalt	mg/L	ND	0.0050	0.00032	08/30/24 17:08	
Lead	mg/L	ND	0.0010	0.00016	08/30/24 17:08	
Lithium	mg/L	ND	0.030	0.0016	08/30/24 17:08	
Molybdenum	mg/L	ND	0.010	0.00062	08/30/24 17:08	
Selenium	mg/L	ND	0.0050	0.00096	08/30/24 17:08	
Thallium	mg/L	ND	0.0010	0.00038	08/30/24 17:08	

LABORATORY CONTROL SAMPLE: 4523059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.11	105	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523068 4523069

Parameter	Units	92749319006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.10	99	104	75-125	5	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523068 4523069

Parameter	Units	92749319006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	28.8 ug/L	0.1	0.1	0.13	0.14	99	113	75-125	10	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Boron	mg/L	ND	1	1	0.99	0.98	99	98	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20	
Lithium	mg/L	ND	0.1	0.1	0.095	0.099	94	98	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.090	0.094	90	94	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878760
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749199006, 92749199007, 92749199008, 92749199009, 92749199010

METHOD BLANK: 4526091 Matrix: Water
Associated Lab Samples: 92749199006, 92749199007, 92749199008, 92749199009, 92749199010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	09/03/24 15:45	
Arsenic	mg/L	ND	0.0050	0.00084	09/03/24 15:45	
Barium	mg/L	ND	0.0050	0.00047	09/03/24 15:45	
Beryllium	mg/L	ND	0.00050	0.000094	09/03/24 15:45	
Boron	mg/L	ND	0.040	0.012	09/03/24 15:45	
Cadmium	mg/L	ND	0.00050	0.00010	09/03/24 15:45	
Chromium	mg/L	ND	0.0050	0.0019	09/03/24 15:45	
Cobalt	mg/L	ND	0.0050	0.00032	09/03/24 15:45	
Lead	mg/L	ND	0.0010	0.00016	09/03/24 15:45	
Lithium	mg/L	ND	0.030	0.0016	09/03/24 15:45	
Molybdenum	mg/L	ND	0.010	0.00062	09/03/24 15:45	
Selenium	mg/L	ND	0.0050	0.00096	09/03/24 15:45	
Thallium	mg/L	ND	0.0010	0.00038	09/03/24 15:45	

LABORATORY CONTROL SAMPLE: 4526092

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	0.98	98	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	101	80-120	
Lead	mg/L	0.1	0.10	101	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	104	80-120	
Selenium	mg/L	0.1	0.10	100	80-120	
Thallium	mg/L	0.1	0.099	99	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4526093 4526094

Parameter	Units	92748202041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4526093 4526094

Parameter	Units	92748202041 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	0.019	0.1	0.1	0.12	0.12	99	101	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	
Boron	mg/L	0.45	1	1	1.5	1.5	101	104	75-125	2	20	
Cadmium	mg/L	ND	0.1	0.1	0.099	0.10	99	101	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	99	101	75-125	2	20	
Cobalt	mg/L	0.00042J	0.1	0.1	0.098	0.10	98	100	75-125	2	20	
Lead	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	99	101	75-125	2	20	
Molybdenum	mg/L	0.0058J	0.1	0.1	0.11	0.11	100	104	75-125	4	20	
Selenium	mg/L	0.0022J	0.1	0.1	0.10	0.098	99	96	75-125	3	20	
Thallium	mg/L	0.00039J	0.1	0.1	0.094	0.098	93	97	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 880460
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92749199001, 92749199002, 92749199003, 92749199004, 92749199005, 92749199006, 92749199007, 92749199008, 92749199009, 92749199010

METHOD BLANK: 4534411 Matrix: Water
Associated Lab Samples: 92749199001, 92749199002, 92749199003, 92749199004, 92749199005, 92749199006, 92749199007, 92749199008, 92749199009, 92749199010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/05/24 17:30	

LABORATORY CONTROL SAMPLE: 4534412

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0022	88	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4534413 4534414

Parameter	Units	92749199001 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	0.0024	97	97	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878526 | 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: 92749199001, 92749199002, 92749199003, 92749199004, 92749199005

METHOD BLANK: 4524815 Matrix: Water
Associated Lab Samples: 92749199001, 92749199002, 92749199003, 92749199004, 92749199005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/27/24 16:40	

LABORATORY CONTROL SAMPLE: 4524816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	80-120	

SAMPLE DUPLICATE: 4524817

Parameter	Units	92749074006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	126	122	3	10	

SAMPLE DUPLICATE: 4524818

Parameter	Units	92748851022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	235	234	0	10	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878881 | 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: 92749199006, 92749199007, 92749199008, 92749199009, 92749199010

METHOD BLANK: 4526609 Matrix: Water
Associated Lab Samples: 92749199006, 92749199007, 92749199008, 92749199009, 92749199010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/28/24 13:46	

LABORATORY CONTROL SAMPLE: 4526610

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	405	101	80-120	

SAMPLE DUPLICATE: 4526611

Parameter	Units	92749173008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	742	757	2	10	

SAMPLE DUPLICATE: 4526612

Parameter	Units	92749173023 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	64.0	70.0	9	10	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 877660
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville

Associated Lab Samples: 92749199001

METHOD BLANK: 4521132 Matrix: Water
Associated Lab Samples: 92749199001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/23/24 00:05	
Fluoride	mg/L	ND	0.10	0.050	08/23/24 00:05	
Sulfate	mg/L	ND	1.0	0.50	08/23/24 00:05	

LABORATORY CONTROL SAMPLE: 4521133

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.2	104	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.2	104	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521134 4521135

Parameter	Units	92749079006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	2.4	50	50	53.6	54.4	102	104	90-110	1	10	
Fluoride	mg/L	0.11	2.5	2.5	2.7	2.7	103	104	90-110	1	10	
Sulfate	mg/L	3.6	50	50	55.1	55.9	103	105	90-110	2	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521136 4521137

Parameter	Units	92749160003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	39.6	50	50	90.0	91.0	101	103	90-110	1	10	
Fluoride	mg/L	0.10	2.5	2.5	2.6	2.6	99	102	90-110	3	10	
Sulfate	mg/L	518	50	50	558	554	80	73	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 877665
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92749199002, 92749199003, 92749199004, 92749199005

METHOD BLANK: 4521170 Matrix: Water
Associated Lab Samples: 92749199002, 92749199003, 92749199004, 92749199005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/24 23:58	
Fluoride	mg/L	ND	0.10	0.050	08/22/24 23:58	
Sulfate	mg/L	ND	1.0	0.50	08/22/24 23:58	

LABORATORY CONTROL SAMPLE: 4521171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	51.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521172 4521173

Parameter	Units	92749199002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.8	50	50	65.9	67.2	100	103	90-110	2	10	
Fluoride	mg/L	0.098J	2.5	2.5	2.7	2.8	105	108	90-110	3	10	
Sulfate	mg/L	83.5	50	50	114	117	61	67	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521174 4521175

Parameter	Units	92749078002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5	50	50	53.6	54.6	100	102	90-110	2	10	
Fluoride	mg/L	0.081J	2.5	2.5	2.5	2.6	97	99	90-110	3	10	
Sulfate	mg/L	37.3	50	50	87.2	88.2	100	102	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT AP-2
Pace Project No.: 92749199

QC Batch: 878325
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92749199006, 92749199007, 92749199008, 92749199009, 92749199010

METHOD BLANK: 4524069 Matrix: Water
Associated Lab Samples: 92749199006, 92749199007, 92749199008, 92749199009, 92749199010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/26/24 21:29	
Fluoride	mg/L	ND	0.10	0.050	08/26/24 21:29	
Sulfate	mg/L	ND	1.0	0.50	08/26/24 21:29	

LABORATORY CONTROL SAMPLE: 4524070

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.7	99	90-110	
Fluoride	mg/L	2.5	2.5	98	90-110	
Sulfate	mg/L	50	50.4	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4524071 4524072

Parameter	Units	92749173013 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	10.4	50	50	62.7	63.9	105	107	90-110	2	10	
Fluoride	mg/L	0.085J	2.5	2.5	2.5	2.6	96	100	90-110	3	10	
Sulfate	mg/L	1130	50	50	1200	1240	129	206	90-110	3	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4524073 4524074

Parameter	Units	92749173023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	51.2	52.3	102	105	90-110	2	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	101	103	90-110	2	10	
Sulfate	mg/L	ND	50	50	51.8	52.9	104	106	90-110	2	10	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT AP-2
Pace Project No.: 92749199

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2
Pace Project No.: 92749199

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749199001	**YAT-YGWC-26S**	EPA 3010A	878070	EPA 6010D	878096
92749199002	**YAT-YGWC-26I**	EPA 3010A	878070	EPA 6010D	878096
92749199003	**YAT-YGWC-27I**	EPA 3010A	878070	EPA 6010D	878096
92749199004	**YAT-AP2-EB-1**	EPA 3010A	878070	EPA 6010D	878096
92749199005	**YAT-AP2-FB-1**	EPA 3010A	878071	EPA 6010D	878097
92749199006	**YAT-YGWC-27S**	EPA 3010A	878921	EPA 6010D	879014
92749199007	**YAT-YGWC-28S**	EPA 3010A	878984	EPA 6010D	879023
92749199008	**YAT-YGWC-28I**	EPA 3010A	878984	EPA 6010D	879023
92749199009	**YAT-AP2-FD-1**	EPA 3010A	878984	EPA 6010D	879023
92749199010	**YAT-YGWC-29IB**	EPA 3010A	878984	EPA 6010D	879023
92749199001	**YAT-YGWC-26S**	EPA 3005A	878079	EPA 6020B	878101
92749199002	**YAT-YGWC-26I**	EPA 3005A	878079	EPA 6020B	878101
92749199003	**YAT-YGWC-27I**	EPA 3005A	878079	EPA 6020B	878101
92749199004	**YAT-AP2-EB-1**	EPA 3005A	878079	EPA 6020B	878101
92749199005	**YAT-AP2-FB-1**	EPA 3005A	878080	EPA 6020B	878102
92749199006	**YAT-YGWC-27S**	EPA 3005A	878760	EPA 6020B	878960
92749199007	**YAT-YGWC-28S**	EPA 3005A	878760	EPA 6020B	878960
92749199008	**YAT-YGWC-28I**	EPA 3005A	878760	EPA 6020B	878960
92749199009	**YAT-AP2-FD-1**	EPA 3005A	878760	EPA 6020B	878960
92749199010	**YAT-YGWC-29IB**	EPA 3005A	878760	EPA 6020B	878960
92749199001	**YAT-YGWC-26S**	EPA 7470A	880460	EPA 7470A	880586
92749199002	**YAT-YGWC-26I**	EPA 7470A	880460	EPA 7470A	880586
92749199003	**YAT-YGWC-27I**	EPA 7470A	880460	EPA 7470A	880586
92749199004	**YAT-AP2-EB-1**	EPA 7470A	880460	EPA 7470A	880586
92749199005	**YAT-AP2-FB-1**	EPA 7470A	880460	EPA 7470A	880586
92749199006	**YAT-YGWC-27S**	EPA 7470A	880460	EPA 7470A	880586
92749199007	**YAT-YGWC-28S**	EPA 7470A	880460	EPA 7470A	880586
92749199008	**YAT-YGWC-28I**	EPA 7470A	880460	EPA 7470A	880586
92749199009	**YAT-AP2-FD-1**	EPA 7470A	880460	EPA 7470A	880586
92749199010	**YAT-YGWC-29IB**	EPA 7470A	880460	EPA 7470A	880586
92749199001	**YAT-YGWC-26S**	SM 2540C-2015	878526		
92749199002	**YAT-YGWC-26I**	SM 2540C-2015	878526		
92749199003	**YAT-YGWC-27I**	SM 2540C-2015	878526		
92749199004	**YAT-AP2-EB-1**	SM 2540C-2015	878526		
92749199005	**YAT-AP2-FB-1**	SM 2540C-2015	878526		
92749199006	**YAT-YGWC-27S**	SM 2540C-2015	878881		
92749199007	**YAT-YGWC-28S**	SM 2540C-2015	878881		
92749199008	**YAT-YGWC-28I**	SM 2540C-2015	878881		
92749199009	**YAT-AP2-FD-1**	SM 2540C-2015	878881		
92749199010	**YAT-YGWC-29IB**	SM 2540C-2015	878881		
92749199001	**YAT-YGWC-26S**	EPA 300.0 Rev 2.1 1993	877660		
92749199002	**YAT-YGWC-26I**	EPA 300.0 Rev 2.1 1993	877665		
92749199003	**YAT-YGWC-27I**	EPA 300.0 Rev 2.1 1993	877665		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2
Pace Project No.: 92749199

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749199004	**YAT-AP2-EB-1**	EPA 300.0 Rev 2.1 1993	877665		
92749199005	**YAT-AP2-FB-1**	EPA 300.0 Rev 2.1 1993	877665		
92749199006	**YAT-YGWC-27S**	EPA 300.0 Rev 2.1 1993	878325		
92749199007	**YAT-YGWC-28S**	EPA 300.0 Rev 2.1 1993	878325		
92749199008	**YAT-YGWC-28I**	EPA 300.0 Rev 2.1 1993	878325		
92749199009	**YAT-AP2-FD-1**	EPA 300.0 Rev 2.1 1993	878325		
92749199010	**YAT-YGWC-29IB**	EPA 300.0 Rev 2.1 1993	878325		

Pace

DC#_Title: ENV-FRM-KERN-0008 v00_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☑

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

WO# : 92749199

92749199

Courier: ☐ Commercial ☐ FedEx ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/22/24 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 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): 2.2

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

WO# : 92749199

*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 #

PM: BV Due Date: 09/06/24
CLIENT: 92-GP-Yates

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

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

pH Adjustment Log for Preserved Samples

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

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

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92749199

*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 #

PM: BV Due Date: 09/06/24
CLIENT: 92-GP-Yates

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP 2		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWC-26S	WG	G	8/21/24	1530	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-26I	WG	G	8/21/24	1623	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-27S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-27I	WG	G	8/21/24	1730	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-28S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWC-28I	WG	G						5		X	X	X	X	See Remarks
YAT-AP2-FD-1	WG	G						5		X	X	X	X	See Remarks
YAT-AP2-EB-1	WG	G	8/21/24	1750	—	—		5		X	X	X	X	See Remarks
YAT-AP2-FB-1	WG	G	8/21/24	1630	—	—		5		X	X	X	X	See Remarks
YAT-YGWC-29IB	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
/ARCADIS	8/22/24 0730	/Arcadis	8/22/24 0730	
Arcadis	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	8/22/24 1215		8/22/24 1215	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-2		Purchase Order # (if applicable):	GPC82474-0002
		Quote #	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
	Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:	
	Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Lab Use Only	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWC-26S	WG	G						5		X	X	X	X	Proj. Mgr: Bonnie Vang	See Remarks	
YAT-YGWC-26I	WG	G						5		X	X	X	X	Acct#Num / Client ID:	See Remarks	
YAT-YGWC-27S	WG	G	8/22/24	1108	—	—		5		X	X	X	X	Table #	See Remarks	
YAT-YGWC-27I	WG	G						5		X	X	X	X	Profile / Template: 16561	See Remarks	
YAT-YGWC-28S	WG	G	8/22/24	1750	—	—		5		X	X	X	X	Prelog / Bottle Ord. ID:	See Remarks	
YAT-YGWC-28I	WG	G	8/22/24	1345	—	—		5		X	X	X	X		See Remarks	
YAT-AP2-FD-1	WG	G	8/22/24	—	—	—		5		X	X	X	X		See Remarks	
YAT-AP2 EB 1	WG	G						5		X	X	X	X		See Remarks	
YAT-AP2-FB-1	WG	G						5		X	X	X	X		See Remarks	
YAT-YGWC-29IB	WG	G	8/22/24	1216	—	—		5		X	X	X	X		See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	ARCADIS	Date/Time: 8/23/24 1130	Received by/Company: (Signature)	Arcadis	Date/Time: 8/23/24 1130
Relinquished by/Company: (Signature)	Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)		Date/Time: 8/23/24 1350
Relinquished by/Company: (Signature)		Date/Time:	Received by/Company: (Signature)		Date/Time:
Relinquished by/Company: (Signature)		Date/Time:	Received by/Company: (Signature)		Date/Time:

Tracking Number:

Delivered by: [ ] In- Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at: https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

Pace

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☒ Client ☐ Commercial ☐ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☒ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: 8/23/24

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: 1.9 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): 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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____ Date/Time: ____

Project Manager SCURF Review: ____ Date: ____

Project Manager SRF Review: ____ Date: ____

	DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt
Pace	Effective Date: 05/24/2024

*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 #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client _____ Profile/EZ (Circle one) _____ Notes _____

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)	BP1N-1 liter Plastic HNO3 (pH < 2)	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 ml Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC					BP1U																									
1	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
2	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
3	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
4	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
5	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
6	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
7	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
8	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
9	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
10	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
11	\	1	1		2	\	1	\	\			\		\	\	\											\	\			
12	\	1	1		2	\	1	\	\			\		\	\	\											\	\			

pH Adjustment Log for Preserved Samples

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

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

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*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 #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	6511	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
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pH Adjustment Log for Preserved Samples

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

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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 20, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT AP-2- RADs
Pace Project No.: 92749203

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 22, 2024 and August 23, 2024. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

- Pace Analytical Services - Greensburg

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
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

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92749203001	**YAT-YGWC-26S**	Water	08/21/24 15:30	08/22/24 09:25
92749203002	**YAT-YGWC-26I**	Water	08/21/24 16:23	08/22/24 09:25
92749203003	**YAT-YGWC-27I**	Water	08/21/24 17:30	08/22/24 09:25
92749203004	**YAT-AP2-EB-1**	Water	08/21/24 17:50	08/22/24 09:25
92749203005	**YAT-AP2-FB-1**	Water	08/21/24 16:30	08/22/24 09:25
92749203006	**YAT-YGWC-27S**	Water	08/22/24 11:08	08/23/24 13:50
92749203007	**YAT-YGWC-28S**	Water	08/22/24 17:50	08/23/24 13:50
92749203008	**YAT-YGWC-28I**	Water	08/22/24 13:45	08/23/24 13:50
92749203009	**YAT-AP2-FD-1**	Water	08/22/24 00:00	08/23/24 13:50
92749203010	**YAT-YGWC-29IB**	Water	08/22/24 12:16	08/23/24 13:50

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92749203001	**YAT-YGWC-26S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749203002	**YAT-YGWC-26I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749203003	**YAT-YGWC-27I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749203004	**YAT-AP2-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749203005	**YAT-AP2-FB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92749203006	**YAT-YGWC-27S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749203007	**YAT-YGWC-28S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749203008	**YAT-YGWC-28I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749203009	**YAT-AP2-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA
92749203010	**YAT-YGWC-29IB**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749203001	**YAT-YGWC-26S**					
EPA 9315	Radium-226	0.0306U ± 0.116 (0.288) C:87% T:NA	pCi/L		09/16/24 08:17	
EPA 9320	Radium-228	0.749U ± 0.459 (0.875) C:82% T:86%	pCi/L		09/11/24 14:24	
Total Radium Calculation	Total Radium	0.780U ± 0.575 (1.16)	pCi/L		09/16/24 15:34	
92749203002	**YAT-YGWC-26I**					
EPA 9315	Radium-226	0.0566U ± 0.115 (0.267) C:82% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.385U ± 0.430 (0.904) C:82% T:83%	pCi/L		09/11/24 14:24	
Total Radium Calculation	Total Radium	0.442U ± 0.545 (1.17)	pCi/L		09/16/24 15:34	
92749203003	**YAT-YGWC-27I**					
EPA 9315	Radium-226	1.89 ± 0.434 (0.266) C:91% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	1.08 ± 0.522 (0.915) C:78% T:88%	pCi/L		09/11/24 14:24	
Total Radium Calculation	Total Radium	2.97 ± 0.956 (1.18)	pCi/L		09/16/24 15:34	
92749203004	**YAT-AP2-EB-1**					
EPA 9315	Radium-226	0.0654U ± 0.122 (0.280) C:87% T:NA	pCi/L		09/16/24 08:01	
EPA 9320	Radium-228	0.515U ± 0.384 (0.755) C:79% T:87%	pCi/L		09/11/24 14:09	
Total Radium Calculation	Total Radium	0.580U ± 0.506 (1.04)	pCi/L		09/16/24 15:34	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749203005	**YAT-AP2-FB-1**					
EPA 9315	Radium-226	-0.0537U ± 0.158 (0.430) C:76% T:NA	pCi/L		09/16/24 08:01	
EPA 9320	Radium-228	0.192U ± 0.295 (0.636) C:77% T:94%	pCi/L		09/11/24 14:10	
Total Radium Calculation	Total Radium	0.192U ± 0.453 (1.07)	pCi/L		09/16/24 15:34	
92749203006	**YAT-YGWC-27S**					
EPA 9315	Radium-226	0.137U ± 0.147 (0.304) C:96% T:NA	pCi/L		09/19/24 08:36	
EPA 9320	Radium-228	0.291U ± 0.338 (0.712) C:82% T:91%	pCi/L		09/13/24 14:25	
Total Radium Calculation	Total Radium	0.428U ± 0.485 (1.02)	pCi/L		09/19/24 16:19	
92749203007	**YAT-YGWC-28S**					
EPA 9315	Radium-226	0.128U ± 0.101 (0.167) C:95% T:NA	pCi/L		09/19/24 08:36	
EPA 9320	Radium-228	0.452U ± 0.354 (0.696) C:81% T:84%	pCi/L		09/13/24 14:25	
Total Radium Calculation	Total Radium	0.580U ± 0.455 (0.863)	pCi/L		09/19/24 16:19	
92749203008	**YAT-YGWC-28I**					
EPA 9315	Radium-226	0.1000U ± 0.127 (0.267) C:93% T:NA	pCi/L		09/19/24 08:37	
EPA 9320	Radium-228	0.662U ± 0.549 (1.08) C:54% T:80%	pCi/L		09/13/24 14:26	
Total Radium Calculation	Total Radium	0.762U ± 0.676 (1.35)	pCi/L		09/19/24 16:19	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92749203009	**YAT-AP2-FD-1**					
EPA 9315	Radium-226	0.107U ± 0.105 (0.201) C:93% T:NA	pCi/L		09/19/24 08:39	
EPA 9320	Radium-228	0.197U ± 0.258 (0.547) C:85% T:89%	pCi/L		09/13/24 14:26	
Total Radium Calculation	Total Radium	0.304U ± 0.363 (0.748)	pCi/L		09/19/24 16:19	
92749203010	**YAT-YGWC-29IB**					
EPA 9315	Radium-226	0.263 ± 0.160 (0.250) C:80% T:NA	pCi/L		09/19/24 09:14	
EPA 9320	Radium-228	0.196U ± 0.329 (0.716) C:79% T:83%	pCi/L		09/17/24 11:10	
Total Radium Calculation	Total Radium	0.459U ± 0.489 (0.966)	pCi/L		09/19/24 16:19	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-YGWC-26S **Lab ID: 92749203001** Collected: 08/21/24 15:30 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0306U ± 0.116 (0.288) C:87% T:NA**	pCi/L	09/16/24 08:17	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.749U ± 0.459 (0.875) C:82% T:86%**	pCi/L	09/11/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.780U ± 0.575 (1.16)**	pCi/L	09/16/24 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-YGWC-26I **Lab ID: 92749203002** Collected: 08/21/24 16:23 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0566U ± 0.115 (0.267) C:82% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.385U ± 0.430 (0.904) C:82% T:83%**	pCi/L	09/11/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.442U ± 0.545 (1.17)**	pCi/L	09/16/24 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-YGWC-27I **Lab ID: 92749203003** Collected: 08/21/24 17:30 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.89 ± 0.434 (0.266) C:91% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**1.08 ± 0.522 (0.915) C:78% T:88%**	pCi/L	09/11/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**2.97 ± 0.956 (1.18)**	pCi/L	09/16/24 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-AP2-EB-1 **Lab ID: 92749203004** Collected: 08/21/24 17:50 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0654U ± 0.122 (0.280) C:87% T:NA**	pCi/L	09/16/24 08:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.515U ± 0.384 (0.755) C:79% T:87%**	pCi/L	09/11/24 14:09	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.580U ± 0.506 (1.04)**	pCi/L	09/16/24 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-AP2-FB-1 **Lab ID: 92749203005** Collected: 08/21/24 16:30 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0537U ± 0.158 (0.430) C:76% T:NA**	pCi/L	09/16/24 08:01	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.192U ± 0.295 (0.636) C:77% T:94%**	pCi/L	09/11/24 14:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.192U ± 0.453 (1.07)**	pCi/L	09/16/24 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-YGWC-27S **Lab ID: 92749203006** Collected: 08/22/24 11:08 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.137U ± 0.147 (0.304) C:96% T:NA**	pCi/L	09/19/24 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.291U ± 0.338 (0.712) C:82% T:91%**	pCi/L	09/13/24 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.428U ± 0.485 (1.02)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-YGWC-28S **Lab ID: 92749203007** Collected: 08/22/24 17:50 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.128U ± 0.101 (0.167) C:95% T:NA**	pCi/L	09/19/24 08:36	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.452U ± 0.354 (0.696) C:81% T:84%**	pCi/L	09/13/24 14:25	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.580U ± 0.455 (0.863)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-YGWC-28I **Lab ID: 92749203008** Collected: 08/22/24 13:45 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.1000U ± 0.127 (0.267) C:93% T:NA**	pCi/L	09/19/24 08:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.662U ± 0.549 (1.08) C:54% T:80%**	pCi/L	09/13/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.762U ± 0.676 (1.35)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-AP2-FD-1 **Lab ID: 92749203009** Collected: 08/22/24 00:00 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.107U ± 0.105 (0.201) C:93% T:NA**	pCi/L	09/19/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.197U ± 0.258 (0.547) C:85% T:89%**	pCi/L	09/13/24 14:26	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.304U ± 0.363 (0.748)**	pCi/L	09/19/24 16:19	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Sample: YAT-YGWC-29IB **Lab ID: 92749203010** Collected: 08/22/24 12:16 Received: 08/23/24 13:50 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.263 ± 0.160 (0.250) C:80% T:NA**	pCi/L	09/19/24 09:14	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.196U ± 0.329 (0.716) C:79% T:83%**	pCi/L	09/17/24 11:10	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.459U ± 0.489 (0.966)**	pCi/L	09/19/24 16:19	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

QC Batch: 693376
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749203006, 92749203007, 92749203008, 92749203009, 92749203010

METHOD BLANK: 3376233 Matrix: Water
Associated Lab Samples: 92749203006, 92749203007, 92749203008, 92749203009, 92749203010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0354 ± 0.0920 (0.223) C:89% T:NA	pCi/L	09/19/24 08:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

QC Batch: 692082
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749203001, 92749203002, 92749203003, 92749203004, 92749203005

METHOD BLANK: 3370048 Matrix: Water
Associated Lab Samples: 92749203001, 92749203002, 92749203003, 92749203004, 92749203005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0815 ± 0.144 (0.327) C:92% T:NA	pCi/L	09/16/24 08:41	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

QC Batch: 695085
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749203010

METHOD BLANK: 3384817 Matrix: Water
Associated Lab Samples: 92749203010

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0127 ± 0.268 (0.625) C:84% T:86%	pCi/L	09/17/24 11:10	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

QC Batch: 691962
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749203001, 92749203002, 92749203003, 92749203004, 92749203005

METHOD BLANK: 3369429 Matrix: Water
Associated Lab Samples: 92749203001, 92749203002, 92749203003, 92749203004, 92749203005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.325 ± 0.297 (0.601) C:85% T:93%	pCi/L	09/11/24 14:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT AP-2- RADs
Pace Project No.: 92749203

QC Batch: 693289
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92749203006, 92749203007, 92749203008, 92749203009

METHOD BLANK: 3375868 Matrix: Water
Associated Lab Samples: 92749203006, 92749203007, 92749203008, 92749203009

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.898 ± 0.418 (0.691) C:81% T:84%	pCi/L	09/13/24 14:28	

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QUALIFIERS

Project: YAT AP-2- RADs
Pace Project No.: 92749203

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT AP-2- RADs
Pace Project No.: 92749203

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92749203001	**YAT-YGWC-26S**	EPA 9315	692082		
92749203002	**YAT-YGWC-26I**	EPA 9315	692082		
92749203003	**YAT-YGWC-27I**	EPA 9315	692082		
92749203004	**YAT-AP2-EB-1**	EPA 9315	692082		
92749203005	**YAT-AP2-FB-1**	EPA 9315	692082		
92749203006	**YAT-YGWC-27S**	EPA 9315	693376		
92749203007	**YAT-YGWC-28S**	EPA 9315	693376		
92749203008	**YAT-YGWC-28I**	EPA 9315	693376		
92749203009	**YAT-AP2-FD-1**	EPA 9315	693376		
92749203010	**YAT-YGWC-29IB**	EPA 9315	693376		
92749203001	**YAT-YGWC-26S**	EPA 9320	691962		
92749203002	**YAT-YGWC-26I**	EPA 9320	691962		
92749203003	**YAT-YGWC-27I**	EPA 9320	691962		
92749203004	**YAT-AP2-EB-1**	EPA 9320	691962		
92749203005	**YAT-AP2-FB-1**	EPA 9320	691962		
92749203006	**YAT-YGWC-27S**	EPA 9320	693289		
92749203007	**YAT-YGWC-28S**	EPA 9320	693289		
92749203008	**YAT-YGWC-28I**	EPA 9320	693289		
92749203009	**YAT-AP2-FD-1**	EPA 9320	693289		
92749203010	**YAT-YGWC-29IB**	EPA 9320	695085		
92749203001	**YAT-YGWC-26S**	Total Radium Calculation	696366		
92749203002	**YAT-YGWC-26I**	Total Radium Calculation	696366		
92749203003	**YAT-YGWC-27I**	Total Radium Calculation	696366		
92749203004	**YAT-AP2-EB-1**	Total Radium Calculation	696366		
92749203005	**YAT-AP2-FB-1**	Total Radium Calculation	696366		
92749203006	**YAT-YGWC-27S**	Total Radium Calculation	697334		
92749203007	**YAT-YGWC-28S**	Total Radium Calculation	697334		
92749203008	**YAT-YGWC-28I**	Total Radium Calculation	697334		
92749203009	**YAT-AP2-FD-1**	Total Radium Calculation	697334		
92749203010	**YAT-YGWC-29IB**	Total Radium Calculation	697334		

Pace

DC#_Title: ENV-FRM-[illegible]_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #: WO# : 92749203

92749203

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/22/24 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 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): 2.2

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: _____ Date/Time: _____

Project Manager SCURF Review: _____ Date: _____

Project Manager SRF Review: _____ Date: _____

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92749203

*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 #

PM: BV Due Date: 09/13/24
CLIENT: 92-GP-Yates

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																															
1		1	1		2		1																								
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pH Adjustment Log for Preserved Samples

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

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

WO#: 92749203

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Project #

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Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client: _____ Profile/EZ (Circle one) _____ Notes _____

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Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-2		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct.Num / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

	Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. CL2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
6	YAT-YGWC-26S	WG	G	8/21/24	1530	—	—		5		X	X	X	X	See Remarks
7	YAT-YGWC-26I	WG	G	8/21/24	1623	—	—		5		X	X	X	X	See Remarks
	YAT-YGWC-27S	WG	G						5		X	X	X	X	See Remarks
8	YAT-YGWC-27I	WG	G	8/21/24	1730	—	—		5		X	X	X	X	See Remarks
	YAT-YGWC-28S	WG	G						5		X	X	X	X	See Remarks
	YAT-YGWC-28I	WG	G						5		X	X	X	X	See Remarks
	YAT-AP2-FD-1	WG	G						5		X	X	X	X	See Remarks
9	YAT-AP2-EB-1	WG	G	8/21/24	1750	—	—		5		X	X	X	X	See Remarks
10	YAT-AP2-FB-1	WG	G	8/21/24	1630	—	—		5		X	X	X	X	See Remarks
	YAT-YGWC-29IB	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) KIM LAPSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time		Date/Time	
Relinquished by/Company: (Signature)	8/22/24 0730	Received by/Company: (Signature)	8/22/24 0730	Tracking Number:
Relinquished by/Company: (Signature)	8/22/24 0925	Received by/Company: (Signature)	8/22/24 0925	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	8/22/24 1215	Received by/Company: (Signature)	8/22/24 1215	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace* Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.348.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT AP-2		Purchase Order # (if applicable):	GPC82474-0002
		Quote #	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:		
	Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:	
	Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size:** — 3 3 2 1

Identify Container Preservative Type*** — 2 1 1 2

Analysis Requested

**Container Size: (1) 1L (2) 500mL (3) 250mL (4) 125mL (5) 100mL (6) 40mL vial (7) EnCore (8) TerraCore (9) Other

*** Preservative Types: (1) None (2) HNO3 (3) H2SO4 (4) HCl (5) NaOH (6) Zn Acetate (7) NaHSO4 (8) Sod. Thiosulfate (9) Ascorbic Acid (10) MeOH (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWC-26S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-26I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-27S	WG	G	8/22/24	1108	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC 27I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-28S	WG	G	8/22/24	1750	—	—		5		X	X	X	X	See Remarks	
YAT-YGWC-28I	WG	G	8/22/24	1345	—	—		5		X	X	X	X	See Remarks	
YAT-AP2-FD-1	WG	G	8/22/24	—	—	—		5		X	X	X	X	See Remarks	
YAT-AP2-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-AP2-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWC-29IB	WG	G	8/22/24	1216	—	—		5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - KIM WAPSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
ARCADIS	8/23/24 1130	Arcadis	8/23/24 1130	
Relinquished by/Company: (Signature) Arcadis	Date/Time: 8/23/24 1350	Received by/Company: (Signature)	Date/Time: 8/23/24 1350	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORQ-0019_v01_082123 ©

DC#_Title: ENV-FRM-[illegible]

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Georgia Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☐ UPS ☐ USPS ☑ Client ☐ Pace ☐ Other:

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/23/24 TSP

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☑ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☑ N/A

Thermometer: ☐ IR Gun ID: 236

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 1.9 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): 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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

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

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

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Client_____ Profile/EZ (Circle one)_____ Notes_____

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

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Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-228
Analyst:	VAL
Date:	9/9/2024
Worklist:	81111
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3375868
MB concentration:	0.898
M/B 2 Sigma CSU:	0.418
MB MDC:	0.691
MB Numerical Performance Indicator:	4.21
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81111	LCSD81111
Count Date:	9/13/2024	9/13/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.306	35.306
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.818
Target Conc. (pCi/L, g, F):	4.327	4.317
Uncertainty (Calculated):	0.212	0.212
Result (pCi/L, g, F):	4.229	3.743
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.985	0.898
Numerical Performance Indicator:	-0.19	-1.22
Percent Recovery:	97.74%	86.70%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS81111	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81111	
Sample Result (pCi/L, g, F):	4.229	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.985	
Sample Duplicate Result (pCi/L, g, F):	3.743	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.898	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	0.715	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	11.98%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

ET 9-16-24

9/16/24

Quality Control Sample Performance Assessment

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Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test:	Ra-228
Analyst:	VAL
Date:	9/12/2024
Worklist:	81240
Matrix:	WT

Method Blank Assessment	
MB Sample ID	3384817
MB concentration:	0.013
M/B 2 Sigma CSU:	0.268
MB MDC:	0.625
MB Numerical Performance Indicator:	0.09
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81240	LCSD81240
Count Date:	9/17/2024	9/17/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.260	35.260
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.818	0.815
Target Conc. (pCi/L, g, F):	4.311	4.325
Uncertainty (Calculated):	0.211	0.212
Result (pCi/L, g, F):	3.854	2.746
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.929	0.738
Numerical Performance Indicator:	-0.94	-4.03
Percent Recovery:	89.41%	63.50%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

Duplicate Sample Assessment		
Sample I.D.:	LCS81240	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD81240	
Sample Result (pCi/L, g, F):	3.854	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.929	
Sample Duplicate Result (pCi/L, g, F):	2.746	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.738	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.831	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	33.89%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

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

Comments:

VAL
9/18/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/9/2024
Worklist:	81002
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3370048
MB concentration:	0.081
M/B 2 Sigma CSU:	0.144
MB MDC:	0.327
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81002	**LCSD81002**
Count Date:	9/16/2024	9/16/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.943	4.974
Uncertainty (Calculated):	0.232	0.234
Result (pCi/L, g, F):	5.073	4.860
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.914	0.921
Numerical Performance Indicator:	0.27	-0.23
Percent Recovery:	102.61%	97.71%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS81002	92749185006
Duplicate Sample I.D.	LCSD81002	92749185006DUP
Sample Result (pCi/L, g, F):	5.073	0.163
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.914	0.129
Sample Duplicate Result (pCi/L, g, F):	4.860	0.126
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.921	0.130
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.321	0.399
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.89%	25.75%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

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

Comments:

LT 9-16-24

LAm 9/16/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/12/2024
Worklist:	81121
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3376233
MB concentration:	0.035
M/B 2 Sigma CSU:	0.092
MB MDC:	0.223
MB Numerical Performance Indicator:	0.75
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81121	LCSD81121
Count Date:	9/19/2024	9/19/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.500	0.503
Target Conc. (pCi/L, g, F):	5.000	4.973
Uncertainty (Calculated):	0.235	0.234
Result (pCi/L, g, F):	4.407	5.008
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.835	0.920
Numerical Performance Indicator:	-1.34	0.07
Percent Recovery:	88.15%	100.72%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS81121	92749203007
Duplicate Sample I.D.	LCSD81121	92749203007DUP
Sample Result (pCi/L, g, F):	4.407	0.128
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.835	0.101
Sample Duplicate Result (pCi/L, g, F):	5.008	0.252
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.920	0.134
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-0.949	-1.444
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	13.31%	65.11%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

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

Comments:

ET 9-19-24

VAM 9/19/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/5/2024
Worklist:	80993
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3369429
MB concentration:	0.325
M/B 2 Sigma CSU:	0.297
MB MDC:	0.601
MB Numerical Performance Indicator:	2.14
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS80993	**LCSD80993**
Count Date:	9/11/2024	9/11/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.330	35.330
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.815
Target Conc. (pCi/L, g, F):	4.330	4.333
Uncertainty (Calculated):	0.212	0.212
Result (pCi/L, g, F):	4.124	3.468
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.955	0.836
Numerical Performance Indicator:	-0.41	-1.97
Percent Recovery:	95.23%	80.05%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS80993	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD80993	
Sample Result (pCi/L, g, F):	4.124	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.955	
Sample Duplicate Result (pCi/L, g, F):	3.468	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.836	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.012	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.32%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

ZPC 9.12.24

VAL 9/12/24

Upgradient Wells

Georgia Power Co. – Plant Yates

Data Review Report

Metals, General Chemistry, and Radium Analyses

SDGs #92748851 and 92748880

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

Report #55993R
Review Level: Tier II
Project: 30143607.3C, 30113037.3C, 30143626.3C

Summary

This Data Review Report summarizes the review of Sample Delivery Groups (SDGs) #92748851 and 92748880 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-YGWA-30I	92748851001 92748880001	Water	8/20/2024		X	X	X
YAT-YGWA-14S	92748851002 92748880002	Water	8/20/2024		X	X	X
YAT-YGWA-3I	92748851003 92748880003	Water	8/20/2024		X	X	X
YAT-YGWA-3D	92748851004 92748880004	Water	8/20/2024		X	X	X
YAT-YGWA-21I	92748851005 92748880005	Water	8/20/2024		X	X	X
YAT-YGWA-4I	92748851006 92748880006	Water	8/20/2024		X	X	X
YAT-YGWA-5I	92748851007 92748880007	Water	8/20/2024		X	X	X
YAT-YGWA-20S	92748851008 92748880008	Water	8/20/2024		X	X	X
YAT-YGWA-47	92748851009 92748880007	Water	8/20/2024		X	X	X
YAT-YGWA-1I	92748851010 92748880010	Water	8/20/2024		X	X	X
YAT-YGWA-1D	92748851011 92748880011	Water	8/20/2024		X	X	X
YAT-YGWA-2I	92748851012 92748880012	Water	8/20/2024		X	X	X

Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
					RAD	MET	GEN CHEM
YAT-UGRD-FB-1	92748851013 92748880013	Water	8/20/2024		X	X	X
YAT-UGRD-FD-1	92748851014 92748880019	Water	8/20/2024	YAT-YGWA-1I	X	X	X
YAT-YGWA-5D	92748851015 92748880015	Water	8/20/2024		X	X	X
YAT-YGWA-17S	92748851016 92748880016	Water	8/20/2024		X	X	X
YAT-YGWA-18I	92748851017 92748880017	Water	8/20/2024		X	X	X
YAT-UGRD-EB-2	92748851020 92748880020	Water	8/20/2024		X	X	X
YAT-UGRD-FB-2	92748851021 92748880021	Water	8/20/2021		X	X	X
YAT-YGWA-39	92748851022 92748880022	Water	8/21/2024		X	X	X
YAT-YGWA-40	92748851023 92748880023	Water	8/21/2024		X	X	X
YAT-YGWA-18S	92748851024 92748880024	Water	8/21/2024		X	X	X
YAT-UGRD-EB-1	92748851025 92748880025	Water	8/21/2024		X	X	X
YAT-UGRD-FD-2	92748851026 92748880026	Water	8/21/2024	YAT-YGWA-18S	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.

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) 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.

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

Metals Analyses

1. Holding Times

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

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

Note:
s.u. = standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWA-39 YAT-YGWA-40	Arsenic (MB)	Detected sample results <RL and <BAL	“UB” at 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/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.

The MS/MSD analysis was performed using samples YAT-YGWA-21I and YAT-YGWA-39 in association with SW-846 6010D analysis. The concentrations of calcium in the unspiked analysis were greater than four-times the spike concentration, hence, the SW-846 6010D MS/MSD sample results were not evaluated for this analyte.

The MS/MSD analysis performed using sample YAT-YGWA-1I in association with SW-846 6020B analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using samples YAT-YGWA-30I and YAT-YGWA-40 in association with SW-846 7470A analysis exhibited recoveries within the control limits.

3.2 Laboratory Duplicate Analysis

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

MS/MSD analysis was performed in replacement of the laboratory duplicate analysis in association with SW-846 6010D, SW-846 6020B, and SW-846 7470A. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWA-1I / YAT-UGRD-FD-1	Calcium	1.9	1.9	AC
	Barium	0.0072	0.0073	
	Cobalt	0.00033 J	0.00036 J	
	Lithium	0.0023 J	0.0023 J	
	Molybdenum	0.0039 J	0.0038 J	

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWA-18S / YAT-UGRD-FD-2	Calcium	0.96 J	0.96 J	AC
	Barium	0.015	0.015	
	Lithium	0.0032 J	0.0030 J	

Note:
AC = Acceptable

The differences in the results between the parent sample YAT-YGWA-1I and field duplicate sample YAT-UGRD-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWA-18S and field duplicate sample YAT-UGRD-FD-2 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for Metals

METALS: SW-846 6010D/6020B/7470A	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Inductively Coupled Plasma-Atomic Emission Spectrometry (ICP-AES) Inductively Coupled Plasma-Mass Spectrometry (ICP-MS) Atomic Absorption – Manual Cold Vapor (CV)					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X	X		
B. Equipment/Field Blanks		X		X	
Laboratory Control Sample (LCS) %R		X		X	
Matrix Spike (MS) %R		X		X	
Matrix Spike Duplicate (MSD) %R		X		X	
MS/MSD Precision (RPD)		X		X	
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
Total Dissolved Solids (TDS) by SM2540C	Water	7 days from collection to analysis	Cool to <6°C
Chloride, Fluoride, and Sulfate by USEPA 300.0	Water	28 days from collection to analysis	Cool to <6°C

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YAT-YGWA-17S YAT-YGWA-18I	TDS (EB, FB)	Detected sample results >RL and <BAL	"J+" at detected sample concentration

Notes:
EB Equipment blank
FB Field blank
RL Reporting limit

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using samples YAT-YGWA-14S, YAT-YGWA-2I, and YAT-UGRD-FB-2 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.

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

The laboratory duplicate analysis performed using samples YAT-YGWA-47, YAT-UGRD-FB-2, and YAT-YGWA-39 in association with TDS analysis exhibited RPDs within the control limit.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWA-1I / YAT-UGRD-FD-1	TDS	67.0	59.0	AC
	Chloride	1.3	1.3	
	Sulfate	4.9	4.8	
YAT-YGWA-18S / YAT-UGRD-FD-2	TDS	79.0	67.0	AC
	Fluoride	0.051 J	0.052 J	
	Sulfate	1.1	1.1	
	Chloride	7.4	7.3	1.4%

Note:
AC Acceptable

The differences in the results between the parent sample YAT-YGWA-1I and field duplicate sample YAT-UGRD-FD-1 were acceptable.

The differences in the results between the parent sample YAT-YGWA-18S and field duplicate sample YAT-UGRD-FD-2 were acceptable.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

Data Validation Checklist for General Chemistry

General Chemistry: SM2540C, USEPA 300.0	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		X		X	
Reporting limits (units)		X		X	
Blanks					
A. Method Blanks		X		X	
B. Equipment/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 (±2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the minimum detectable concentration (MDC).

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

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 and Radium-228 were detected in the method blanks, however, the activity was measured as less than the MDC. Hence, the blank results are considered non-detect and no qualification of the results was required.

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < ±3 sigma for either.

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

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

Where:

x = measured concentration of the spiked sample.

x_0 = measured concentration of the unspiked sample.

c = spike concentration added.

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

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

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

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

The laboratory duplicate performed on sample location YAT-YGWA-5D in association with Radium-226 analysis exhibited an acceptable difference between the results.

Laboratory duplicate analysis was not performed using a sample from this SDG in association with Radium-228 analysis.

4. Field Duplicate Analysis

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

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

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YAT-YGWA-1I / YAT-UGRD-FD-1	Radium-226	0.0860U ± 0.0997	0.0784U ± 0.127	AC
	Radium-228	0.564U ± 0.350	0.477U ± 0.302	
	Total Radium	0.650U ± 0.450	0.555U ± 0.429	
YAT-YGWA-18S / YAT-UGRD-FD-2	Radium-226	0.0674U ± 0.156	0.239U ± 0.201	AC
	Radium-228	0.617U ± 0.458	0.304U ± 0.323	
	Total Radium	0.684U ± 0.614	0.543U ± 0.524	

Note:
AC = Acceptable

The results were below the MDC in the parent sample YAT-YGWA-1I and field duplicate sample YAT-UGRD-FD-1.

The results were below the MDC in the parent sample YAT-YGWA-18S and field duplicate sample YAT-UGRD-FD-2.

5. Tracer or Carrier

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

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

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

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

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

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

Based on the above criteria sample results were qualified as “U” by the laboratory as applicable.

8. System Performance and Overall Assessment

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

Data Validation Checklist for Radiologicals

Radiologicals: SW-846 9315/9320	Reported		Performance Acceptable		Not Required
	No	Yes	No	Yes	
Miscellaneous Instrumentation					
Tier II Validation					
Holding Times		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: 

DATE: September 27, 2024

PEER REVIEW: Dennis Capria

DATE: October 2, 2024

Chain of Custody / Data Qualifier Summary Table

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92748851

92748851

Company Name:	Southern Company	Contact/Report To:	Trey Singletor
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G	8/20/24	1737	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G	8/20/24	1618	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G	8/20/24	1302	—	—		5		X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformances identified for sample:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) KIM LAPSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished By/Company: (Signature)	Date/Time: 8/21/24 0820	Received by/Company: (Signature)	Date/Time: 8/21/24 0820	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 8/21/24 1020	Received by/Company: (Signature)	Date/Time: 8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time: 8/21/24 1250	Received by/Company: (Signature)	Date/Time: 8/21/24 1230	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at http://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No: YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Solid Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 60mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only:
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (for Composite Start) Date	Collected (for Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non conformance identified for sample
YAT-YGWA-47	WG	G			—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G	8/20/24	1640	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	8/20/24	1200	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G	8/20/24	0959	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-1BI	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) Perry Sindebaker
Signature: (Arcadis) Perry Sindebaker

Additional Instructions from Pace*:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Perry Sindebaker / Arcadis	8/21/24 0800	Rebecca Dare / Arcadis	8/21/24 0800	
Rebecca Dare / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	8/21/24 1230	MAW / Pace	8/21/24 1230	
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Page: of

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ENV-FRM-CORO-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		CC E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size:** 3 3 2 1

Identify Container Preservative Type:** 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSUM, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonaie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW) Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-47	WG	G	8/20/24	1735	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks
														See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Sparks
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/20/24 1830	(Arcadis)	8/20/24 1830	
Relinquished by/Company: (Signature) (Arcadis)	8/21/24 1020	Ryan W. Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Ryan W. Williams / Pace	8/21/24 1230	Received by/Company: (Signature) Pace	8/21/24 1230	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORO-0019_v01_082123 ®

Pace

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Customer Project #: Task No. YAT-CCR-ASSMT-202452
Project Name: Georgia Power Yates
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient

Contact/Report To: Trey Singleton
Phone #: 205.346.3317
E-Mail: rosingle@southernco.com
Cc E-Mail: Arcadis contacts
Invoice To:
Invoice E-Mail:
Purchase Order # (if applicable): GPC82474-0002
Quote #:

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other______

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other______
Date Results Requested:

DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 | 3 | 2 | 1
Identify Container Preservative Type***: 2 | 1 | 1 | 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID: ; Table #: ; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res. CL2	Number & Type of Containers Plastic	Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	8/20/24	1025	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G	8/20/24	1230	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G	8/20/24	1515	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prout
Signature: (Arcadis) [signature]

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time
[signature]	8/20/24 1830	[signature] / Arcadis	8/20/24 1830
[signature] / Arcadis	8/21/24 1020	Ryan William / Pace	8/21/24 1020
Ryan William / Pace	8/21/24 1230	MTW / Pace	8/21/24

Tracking Number:
Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	tesingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No: YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC62474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State Origin of Sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQuIS
[ ] Other:

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other:
Date Results Requested:

Dw PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (O); Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct.Num / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl, 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Trusty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/20/24 1830	Arcadis	8/20/24 1830	
Relinquished by/Company: (Signature) Arcadis	8/21/24 1020	Tyan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Tyan Williams / Pace	8/21/24 1230	Received by/Company: (Signature) Pace	8/21/24 1230	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	tsingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Date Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program: (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	
		Date Results Requested:	
		DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

Acct/Num / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/6320	Sample Comment	Preservation non conformance identified for sample
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G	8/20/24	0957	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G	8/20/24	1245	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G	8/20/24	1422	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/21/24 1020	Tracking Number:
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/21/24 1230	Received by/Company: (Signature) Mary / Pace	Date/Time: 8/21/24 1230	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G	8/20/24					5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G	8/20/24	1857				5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	8/20/24	1030	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1620	
Ryan Williams / Pace	8/21/24 1230	Mow / Pace	8/21/24 1230	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92748851

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable)	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G	8/21/24	1240	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G	8/21/24	1515	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis): David Prouty
Signature: (Arcadis): David Prouty

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty/Arcadis	8/22/24 0925	Ryan Williams/Pace	8/22/24 0925	
Ryan Williams/Pace	8/22/24 1215	Chase Hunt 8/22/24	1215	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G	8/21/24	0945	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925
Ryan Williams / Pace	8/22/24 1215	Pamela Hunter	8/23/24 1245
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L (2) 500mL (3) 250mL (4) 125mL, (5) 100mL, (6) 40ml vial (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	8/21/24	1525	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G	8/21/24	—	—	—		5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	8/22/24 0925	Ryan W. Williams / Pace	8/22/24 0925	
Ryan W. Williams / Pace	8/22/24 1215		8/22/24 1215	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92748851	YAT-YGWA-17S	SM2540C	Total Dissolved Solids	86.0	mg/L	J+	Blank contamination
	YAT-YGWA-18I	SM2540C	Total Dissolved Solids	128	mg/L	J+	Blank contamination
	YAT-YGWA-39	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
	YAT-YGWA-40	SW846 6020B	Arsenic	0.0050	mg/L	UB	Blank contamination
92748880	No qualifiers assigned						

Abbreviations:

mg/L = milligram per liter

Qualifiers:

J+ = estimated result with possible high bias
UB = not detected

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 06, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 21, 2024 and August 22, 2024. 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 - Peachtree Corners, GA

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

Sincerely,

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

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
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE SUMMARY

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92748851001	**YAT-YGWA-30I**	Water	08/20/24 17:37	08/21/24 12:30
92748851002	**YAT-YGWA-14S**	Water	08/20/24 16:18	08/21/24 12:30
92748851003	**YAT-YGWA-3I**	Water	08/20/24 14:30	08/21/24 12:30
92748851004	**YAT-YGWA-3D**	Water	08/20/24 13:02	08/21/24 12:30
92748851005	**YAT-YGWA-21I**	Water	08/20/24 16:40	08/21/24 12:30
92748851006	**YAT-YGWA-4I**	Water	08/20/24 12:00	08/21/24 12:30
92748851007	**YAT-YGWA-5I**	Water	08/20/24 09:59	08/21/24 12:30
92748851008	**YAT-YGWA-20S**	Water	08/20/24 14:30	08/21/24 12:30
92748851009	**YAT-YGWA-47**	Water	08/20/24 17:35	08/21/24 12:30
92748851010	**YAT-YGWA-1I**	Water	08/20/24 10:25	08/21/24 12:30
92748851011	**YAT-YGWA-1D**	Water	08/20/24 12:30	08/21/24 12:30
92748851012	**YAT-YGWA-2I**	Water	08/20/24 15:15	08/21/24 12:30
92748851013	**YAT-UGRD-FB-1**	Water	08/20/24 15:30	08/21/24 12:30
92748851014	**YAT-UGRD-FD-1**	Water	08/20/24 00:00	08/21/24 12:30
92748851015	**YAT-YGWA-5D**	Water	08/20/24 09:57	08/21/24 12:30
92748851016	**YAT-YGWA-17S**	Water	08/20/24 12:45	08/21/24 12:30
92748851017	**YAT-YGWA-18I**	Water	08/20/24 14:22	08/21/24 12:30
92748851020	**YAT-UGRD-EB-2**	Water	08/20/24 18:57	08/21/24 12:30
92748851021	**YAT-UGRD-FB-2**	Water	08/20/24 10:30	08/21/24 12:30
92748851022	**YAT-YGWA-39**	Water	08/21/24 12:40	08/22/24 09:25
92748851023	**YAT-YGWA-40**	Water	08/21/24 15:15	08/22/24 09:25
92748851024	**YAT-YGWA-18S**	Water	08/21/24 09:45	08/22/24 09:25
92748851025	**YAT-UGRD-EB-1**	Water	08/21/24 15:25	08/22/24 09:25
92748851026	**YAT-UGRD-FD-2**	Water	08/21/24 00:00	08/22/24 09:25

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92748851001	**YAT-YGWA-30I**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	CDC	3
92748851002	**YAT-YGWA-14S**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851003	**YAT-YGWA-3I**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851004	**YAT-YGWA-3D**	EPA 6010D	AJM	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851005	**YAT-YGWA-21I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851006	**YAT-YGWA-4I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851007	**YAT-YGWA-5I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851008	**YAT-YGWA-20S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851009	**YAT-YGWA-47**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851010	**YAT-YGWA-1I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851011	**YAT-YGWA-1D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851012	**YAT-YGWA-2I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851013	**YAT-UGRD-FB-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851014	**YAT-UGRD-FD-1**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851015	**YAT-YGWA-5D**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851016	**YAT-YGWA-17S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851017	**YAT-YGWA-18I**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851020	**YAT-UGRD-EB-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851021	**YAT-UGRD-FB-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851022	**YAT-YGWA-39**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851023	**YAT-YGWA-40**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851024	**YAT-YGWA-18S**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851025	**YAT-UGRD-EB-1**	EPA 6010D	DRB	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3
92748851026	**YAT-UGRD-FD-2**	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		EPA 7470A	VB	1
		SM 2540C-2015	DL1	1
		EPA 300.0 Rev 2.1 1993	JCM	3

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

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748851001	**YAT-YGWA-30I**					
EPA 6010D	Calcium	1.4	mg/L	1.0	08/25/24 21:31	
EPA 6020B	Barium	0.0067	mg/L	0.0050	08/26/24 18:12	
EPA 6020B	Cobalt	0.0023J	mg/L	0.0050	08/26/24 18:12	
SM 2540C-2015	Total Dissolved Solids	69.0	mg/L	25.0	08/22/24 13:21	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	08/23/24 04:47	
EPA 300.0 Rev 2.1 1993	Sulfate	0.74J	mg/L	1.0	08/23/24 04:47	
92748851002	**YAT-YGWA-14S**					
EPA 6010D	Calcium	1.3	mg/L	1.0	08/25/24 21:34	
EPA 6020B	Barium	0.0075	mg/L	0.0050	08/26/24 18:16	
EPA 6020B	Beryllium	0.00021J	mg/L	0.00050	08/26/24 18:16	
EPA 6020B	Boron	0.014J	mg/L	0.040	08/26/24 18:16	
EPA 6020B	Selenium	0.0012J	mg/L	0.0050	08/26/24 18:16	
SM 2540C-2015	Total Dissolved Solids	81.0	mg/L	25.0	08/22/24 13:23	
EPA 300.0 Rev 2.1 1993	Chloride	4.5	mg/L	1.0	08/23/24 00:48	
EPA 300.0 Rev 2.1 1993	Sulfate	7.6	mg/L	1.0	08/23/24 00:48	
92748851003	**YAT-YGWA-3I**					
EPA 6010D	Calcium	23.4	mg/L	1.0	08/25/24 21:39	
EPA 6020B	Barium	0.0027J	mg/L	0.0050	08/26/24 18:20	
EPA 6020B	Lithium	0.017J	mg/L	0.030	08/26/24 18:20	
EPA 6020B	Molybdenum	0.0058J	mg/L	0.010	08/26/24 18:20	
SM 2540C-2015	Total Dissolved Solids	179	mg/L	25.0	08/22/24 13:23	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	08/23/24 01:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.12	mg/L	0.10	08/23/24 01:32	
EPA 300.0 Rev 2.1 1993	Sulfate	13.7	mg/L	1.0	08/23/24 01:32	
92748851004	**YAT-YGWA-3D**					
EPA 6010D	Calcium	30.0	mg/L	1.0	08/25/24 21:42	
EPA 6020B	Barium	0.0044J	mg/L	0.0050	08/26/24 18:24	
EPA 6020B	Lithium	0.021J	mg/L	0.030	08/26/24 18:24	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	08/26/24 18:24	
SM 2540C-2015	Total Dissolved Solids	164	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	08/23/24 02:34	
EPA 300.0 Rev 2.1 1993	Fluoride	0.45	mg/L	0.10	08/23/24 02:34	
EPA 300.0 Rev 2.1 1993	Sulfate	7.7	mg/L	1.0	08/23/24 02:34	
92748851005	**YAT-YGWA-21I**					
EPA 6010D	Calcium	6.9	mg/L	1.0	08/26/24 12:43	M1
EPA 6020B	Barium	0.0083	mg/L	0.0050	08/26/24 18:35	
EPA 6020B	Cobalt	0.020	mg/L	0.0050	08/26/24 18:35	
EPA 6020B	Lithium	0.0057J	mg/L	0.030	08/26/24 18:35	
SM 2540C-2015	Total Dissolved Solids	143	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	2.3	mg/L	1.0	08/23/24 02:49	
EPA 300.0 Rev 2.1 1993	Fluoride	0.062J	mg/L	0.10	08/23/24 02:49	
EPA 300.0 Rev 2.1 1993	Sulfate	4.0	mg/L	1.0	08/23/24 02:49	
92748851006	**YAT-YGWA-4I**					
EPA 6010D	Calcium	9.1	mg/L	1.0	08/26/24 13:03	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748851006	**YAT-YGWA-4I**					
EPA 6020B	Barium	0.012	mg/L	0.0050	08/26/24 18:38	
EPA 6020B	Cadmium	0.00019J	mg/L	0.00050	08/26/24 18:38	
EPA 6020B	Lithium	0.011J	mg/L	0.030	08/26/24 18:38	
SM 2540C-2015	Total Dissolved Solids	128	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	08/23/24 03:03	
EPA 300.0 Rev 2.1 1993	Sulfate	8.7	mg/L	1.0	08/23/24 03:03	
92748851007	**YAT-YGWA-5I**					
EPA 6010D	Calcium	3.2	mg/L	1.0	08/26/24 13:07	
EPA 6020B	Barium	0.018	mg/L	0.0050	08/26/24 18:42	
EPA 6020B	Lithium	0.0031J	mg/L	0.030	08/26/24 18:42	
SM 2540C-2015	Total Dissolved Solids	108	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	4.8	mg/L	1.0	08/23/24 03:17	
EPA 300.0 Rev 2.1 1993	Sulfate	2.6	mg/L	1.0	08/23/24 03:17	
92748851008	**YAT-YGWA-20S**					
EPA 6010D	Calcium	2.8	mg/L	1.0	08/26/24 13:10	
EPA 6020B	Barium	0.012	mg/L	0.0050	08/26/24 18:46	
SM 2540C-2015	Total Dissolved Solids	75.0	mg/L	25.0	08/22/24 13:24	
EPA 300.0 Rev 2.1 1993	Chloride	3.0	mg/L	1.0	08/23/24 03:32	
92748851009	**YAT-YGWA-47**					
EPA 6010D	Calcium	10	mg/L	5.0	08/27/24 20:20	
EPA 6020B	Barium	0.031	mg/L	0.0050	08/26/24 18:49	
EPA 6020B	Cobalt	0.00034J	mg/L	0.0050	08/26/24 18:49	
EPA 6020B	Lithium	0.0036J	mg/L	0.030	08/26/24 18:49	
SM 2540C-2015	Total Dissolved Solids	155	mg/L	25.0	08/22/24 13:25	
EPA 300.0 Rev 2.1 1993	Chloride	3.6	mg/L	1.0	08/23/24 03:46	
EPA 300.0 Rev 2.1 1993	Sulfate	53.9	mg/L	1.0	08/23/24 03:46	
92748851010	**YAT-YGWA-1I**					
EPA 6010D	Calcium	1.9	mg/L	1.0	08/26/24 13:18	
EPA 6020B	Barium	0.0072	mg/L	0.0050	08/27/24 13:52	
EPA 6020B	Cobalt	0.00033J	mg/L	0.0050	08/27/24 13:52	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	08/27/24 13:52	
EPA 6020B	Molybdenum	0.0039J	mg/L	0.010	08/27/24 13:52	
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	25.0	08/22/24 13:25	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	08/23/24 04:01	
EPA 300.0 Rev 2.1 1993	Sulfate	4.9	mg/L	1.0	08/23/24 04:01	
92748851011	**YAT-YGWA-1D**					
EPA 6010D	Calcium	17.7	mg/L	1.0	08/26/24 13:22	
EPA 6020B	Antimony	0.00088J	mg/L	0.0030	08/27/24 14:07	
EPA 6020B	Arsenic	0.00099J	mg/L	0.0050	08/27/24 14:07	
EPA 6020B	Barium	0.0061	mg/L	0.0050	08/27/24 14:07	
EPA 6020B	Lithium	0.0037J	mg/L	0.030	08/27/24 14:07	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	08/27/24 14:07	
SM 2540C-2015	Total Dissolved Solids	140	mg/L	25.0	08/22/24 13:29	
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	08/23/24 04:15	

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748851011	**YAT-YGWA-1D**					
EPA 300.0 Rev 2.1 1993	Fluoride	0.066J	mg/L	0.10	08/23/24 04:15	
EPA 300.0 Rev 2.1 1993	Sulfate	12.2	mg/L	1.0	08/23/24 04:15	
92748851012	**YAT-YGWA-2I**					
EPA 6010D	Calcium	30.4	mg/L	1.0	08/26/24 13:25	
EPA 6020B	Barium	0.0033J	mg/L	0.0050	08/27/24 14:11	
EPA 6020B	Molybdenum	0.011	mg/L	0.010	08/27/24 14:11	
SM 2540C-2015	Total Dissolved Solids	184	mg/L	25.0	08/22/24 13:29	
EPA 300.0 Rev 2.1 1993	Chloride	0.91J	mg/L	1.0	08/23/24 04:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.085J	mg/L	0.10	08/23/24 04:29	
EPA 300.0 Rev 2.1 1993	Sulfate	21.3	mg/L	1.0	08/23/24 04:29	
92748851014	**YAT-UGRD-FD-1**					
EPA 6010D	Calcium	1.9	mg/L	1.0	08/26/24 13:33	
EPA 6020B	Barium	0.0073	mg/L	0.0050	08/27/24 14:18	
EPA 6020B	Cobalt	0.00036J	mg/L	0.0050	08/27/24 14:18	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	08/27/24 14:18	
EPA 6020B	Molybdenum	0.0038J	mg/L	0.010	08/27/24 14:18	
SM 2540C-2015	Total Dissolved Solids	59.0	mg/L	25.0	08/22/24 13:29	
EPA 300.0 Rev 2.1 1993	Chloride	1.3	mg/L	1.0	08/23/24 06:01	
EPA 300.0 Rev 2.1 1993	Sulfate	4.8	mg/L	1.0	08/23/24 06:01	
92748851015	**YAT-YGWA-5D**					
EPA 6010D	Calcium	29.1	mg/L	1.0	08/26/24 13:44	
EPA 6020B	Arsenic	0.0012J	mg/L	0.0050	08/27/24 14:51	
EPA 6020B	Barium	0.0066	mg/L	0.0050	08/27/24 14:51	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	08/27/24 14:51	
EPA 6020B	Molybdenum	0.00074J	mg/L	0.010	08/27/24 14:51	
SM 2540C-2015	Total Dissolved Solids	212	mg/L	25.0	08/22/24 13:29	
EPA 300.0 Rev 2.1 1993	Chloride	3.4	mg/L	1.0	08/23/24 06:15	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	08/23/24 06:15	
EPA 300.0 Rev 2.1 1993	Sulfate	4.3	mg/L	1.0	08/23/24 06:15	
92748851016	**YAT-YGWA-17S**					
EPA 6010D	Calcium	3.5	mg/L	1.0	08/26/24 13:47	
EPA 6020B	Barium	0.016	mg/L	0.0050	08/27/24 14:54	
EPA 6020B	Beryllium	0.00010J	mg/L	0.00050	08/27/24 14:54	
SM 2540C-2015	Total Dissolved Solids	86.0	mg/L	25.0	08/22/24 13:30	
EPA 300.0 Rev 2.1 1993	Chloride	12.7	mg/L	1.0	08/23/24 06:30	
EPA 300.0 Rev 2.1 1993	Sulfate	4.6	mg/L	1.0	08/23/24 06:30	
92748851017	**YAT-YGWA-18I**					
EPA 6010D	Calcium	5.9	mg/L	1.0	08/26/24 13:51	
EPA 6020B	Barium	0.019	mg/L	0.0050	08/27/24 14:58	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	08/27/24 14:58	
SM 2540C-2015	Total Dissolved Solids	128	mg/L	25.0	08/22/24 13:30	
EPA 300.0 Rev 2.1 1993	Chloride	7.8	mg/L	1.0	08/23/24 06:44	
EPA 300.0 Rev 2.1 1993	Sulfate	0.74J	mg/L	1.0	08/23/24 06:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748851020	**YAT-UGRD-EB-2**					
SM 2540C-2015	Total Dissolved Solids	25.0	mg/L	25.0	08/22/24 13:30	
92748851021	**YAT-UGRD-FB-2**					
SM 2540C-2015	Total Dissolved Solids	29.0	mg/L	25.0	08/23/24 13:38	
92748851022	**YAT-YGWA-39**					
EPA 6010D	Calcium	19.7	mg/L	1.0	08/26/24 14:39	M1
EPA 6020B	Arsenic	0.0027J	mg/L	0.0050	08/30/24 17:21	B
EPA 6020B	Barium	0.030	mg/L	0.0050	08/30/24 17:21	
EPA 6020B	Boron	0.13	mg/L	0.040	08/30/24 17:21	
EPA 6020B	Cobalt	0.00048J	mg/L	0.0050	08/30/24 17:21	
EPA 6020B	Lithium	0.0055J	mg/L	0.030	08/30/24 17:21	
EPA 6020B	Molybdenum	0.0068J	mg/L	0.010	08/30/24 17:21	
SM 2540C-2015	Total Dissolved Solids	235	mg/L	25.0	08/27/24 16:42	
EPA 300.0 Rev 2.1 1993	Chloride	4.0	mg/L	1.0	08/23/24 02:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.083J	mg/L	0.10	08/23/24 02:55	
EPA 300.0 Rev 2.1 1993	Sulfate	6.6	mg/L	1.0	08/23/24 02:55	
92748851023	**YAT-YGWA-40**					
EPA 6010D	Calcium	6.0	mg/L	1.0	08/26/24 14:52	
EPA 6020B	Arsenic	0.0014J	mg/L	0.0050	08/30/24 17:25	B
EPA 6020B	Barium	0.033	mg/L	0.0050	08/30/24 17:25	
EPA 6020B	Beryllium	0.00023J	mg/L	0.00050	08/30/24 17:25	
EPA 6020B	Boron	0.061	mg/L	0.040	08/30/24 17:25	
EPA 7470A	Mercury	0.00033	mg/L	0.00020	09/05/24 14:09	
SM 2540C-2015	Total Dissolved Solids	94.0	mg/L	25.0	08/27/24 16:44	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	08/23/24 03:09	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	08/23/24 03:09	
EPA 300.0 Rev 2.1 1993	Sulfate	18.2	mg/L	1.0	08/23/24 03:09	
92748851024	**YAT-YGWA-18S**					
EPA 6010D	Calcium	0.96J	mg/L	1.0	08/26/24 14:56	
EPA 6020B	Barium	0.015	mg/L	0.0050	08/30/24 17:29	
EPA 6020B	Lithium	0.0032J	mg/L	0.030	08/30/24 17:29	
SM 2540C-2015	Total Dissolved Solids	79.0	mg/L	25.0	08/27/24 16:44	
EPA 300.0 Rev 2.1 1993	Chloride	7.4	mg/L	1.0	08/23/24 03:24	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	08/23/24 03:24	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	08/23/24 03:24	
92748851026	**YAT-UGRD-FD-2**					
EPA 6010D	Calcium	0.96J	mg/L	1.0	08/26/24 15:11	
EPA 6020B	Barium	0.015	mg/L	0.0050	08/30/24 17:37	
EPA 6020B	Lithium	0.0030J	mg/L	0.030	08/30/24 17:37	
SM 2540C-2015	Total Dissolved Solids	67.0	mg/L	25.0	08/27/24 16:45	
EPA 300.0 Rev 2.1 1993	Chloride	7.3	mg/L	1.0	08/23/24 03:38	
EPA 300.0 Rev 2.1 1993	Fluoride	0.052J	mg/L	0.10	08/23/24 03:38	
EPA 300.0 Rev 2.1 1993	Sulfate	1.1	mg/L	1.0	08/23/24 03:38	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-30I **Lab ID: 92748851001** Collected: 08/20/24 17:37 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.4**	mg/L	1.0	0.12	1	08/24/24 10:30	08/25/24 21:31	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:12	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:12	7440-38-2	
Barium	**0.0067**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:12	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:12	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:12	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:12	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:12	7440-47-3	
Cobalt	**0.0023J**	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:12	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:12	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:12	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:12	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:12	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**69.0**	mg/L	25.0	25.0	1		08/22/24 13:21		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.4**	mg/L	1.0	0.60	1		08/23/24 04:47	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 04:47	16984-48-8	
Sulfate	**0.74J**	mg/L	1.0	0.50	1		08/23/24 04:47	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-14S **Lab ID: 92748851002** Collected: 08/20/24 16:18 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.3**	mg/L	1.0	0.12	1	08/24/24 10:30	08/25/24 21:34	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:16	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:16	7440-38-2	
Barium	**0.0075**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:16	7440-39-3	
Beryllium	**0.00021J**	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:16	7440-41-7	
Boron	**0.014J**	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:16	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:16	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:16	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:16	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:16	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:16	7439-98-7	
Selenium	**0.0012J**	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:16	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:16	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**81.0**	mg/L	25.0	25.0	1		08/22/24 13:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.5**	mg/L	1.0	0.60	1		08/23/24 00:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 00:48	16984-48-8	
Sulfate	**7.6**	mg/L	1.0	0.50	1		08/23/24 00:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-3I **Lab ID: 92748851003** Collected: 08/20/24 14:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**23.4**	mg/L	1.0	0.12	1	08/24/24 10:30	08/25/24 21:39	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:20	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:20	7440-38-2	
Barium	**0.0027J**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:20	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:20	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:20	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:20	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:20	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:20	7439-92-1	
Lithium	**0.017J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:20	7439-93-2	
Molybdenum	**0.0058J**	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:20	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:19	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**179**	mg/L	25.0	25.0	1		08/22/24 13:23		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.0**	mg/L	1.0	0.60	1		08/23/24 01:32	16887-00-6	
Fluoride	**0.12**	mg/L	0.10	0.050	1		08/23/24 01:32	16984-48-8	
Sulfate	**13.7**	mg/L	1.0	0.50	1		08/23/24 01:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-3D **Lab ID: 92748851004** Collected: 08/20/24 13:02 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.0**	mg/L	1.0	0.12	1	08/24/24 10:30	08/25/24 21:42	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:24	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:24	7440-38-2	
Barium	**0.0044J**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:24	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:24	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:24	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:24	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:24	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:24	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:24	7439-92-1	
Lithium	**0.021J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:24	7439-93-2	
Molybdenum	**0.012**	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:24	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:24	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:24	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:22	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**164**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.1**	mg/L	1.0	0.60	1		08/23/24 02:34	16887-00-6	
Fluoride	**0.45**	mg/L	0.10	0.050	1		08/23/24 02:34	16984-48-8	
Sulfate	**7.7**	mg/L	1.0	0.50	1		08/23/24 02:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-21I **Lab ID: 92748851005** Collected: 08/20/24 16:40 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**6.9**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 12:43	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:35	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:35	7440-38-2	
Barium	**0.0083**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:35	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:35	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:35	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:35	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:35	7440-47-3	
Cobalt	**0.020**	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:35	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:35	7439-92-1	
Lithium	**0.0057J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:35	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:35	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:35	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:24	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**143**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**2.3**	mg/L	1.0	0.60	1		08/23/24 02:49	16887-00-6	
Fluoride	**0.062J**	mg/L	0.10	0.050	1		08/23/24 02:49	16984-48-8	
Sulfate	**4.0**	mg/L	1.0	0.50	1		08/23/24 02:49	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-4I **Lab ID: 92748851006** Collected: 08/20/24 12:00 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**9.1**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:03	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:38	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:38	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:38	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:38	7440-42-8	
Cadmium	**0.00019J**	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:38	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:38	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:38	7439-92-1	
Lithium	**0.011J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:38	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:38	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:38	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:32	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**128**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.2**	mg/L	1.0	0.60	1		08/23/24 03:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 03:03	16984-48-8	
Sulfate	**8.7**	mg/L	1.0	0.50	1		08/23/24 03:03	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-5I **Lab ID: 92748851007** Collected: 08/20/24 09:59 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**3.2**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:07	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:42	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:42	7440-38-2	
Barium	**0.018**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:42	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:42	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:42	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:42	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:42	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:42	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:42	7439-92-1	
Lithium	**0.0031J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:42	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:42	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:42	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:42	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:35	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**108**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.8**	mg/L	1.0	0.60	1		08/23/24 03:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 03:17	16984-48-8	
Sulfate	**2.6**	mg/L	1.0	0.50	1		08/23/24 03:17	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-20S **Lab ID: 92748851008** Collected: 08/20/24 14:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**2.8**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:10	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:46	7440-38-2	
Barium	**0.012**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:46	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:46	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:46	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:46	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:46	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:46	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:46	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:37	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**75.0**	mg/L	25.0	25.0	1		08/22/24 13:24		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.0**	mg/L	1.0	0.60	1		08/23/24 03:32	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 03:32	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/23/24 03:32	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-47 **Lab ID: 92748851009** Collected: 08/20/24 17:35 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**10**	mg/L	5.0	0.61	5	08/24/24 10:30	08/27/24 20:20	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 14:28	08/26/24 18:49	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 14:28	08/26/24 18:49	7440-38-2	
Barium	**0.031**	mg/L	0.0050	0.00047	1	08/23/24 14:28	08/26/24 18:49	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 14:28	08/26/24 18:49	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 14:28	08/26/24 18:49	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 14:28	08/26/24 18:49	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 14:28	08/26/24 18:49	7440-47-3	
Cobalt	**0.00034J**	mg/L	0.0050	0.00032	1	08/23/24 14:28	08/26/24 18:49	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 14:28	08/26/24 18:49	7439-92-1	
Lithium	**0.0036J**	mg/L	0.030	0.0016	1	08/23/24 14:28	08/26/24 18:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 14:28	08/26/24 18:49	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 14:28	08/26/24 18:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 14:28	08/26/24 18:49	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:40	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**155**	mg/L	25.0	25.0	1		08/22/24 13:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.6**	mg/L	1.0	0.60	1		08/23/24 03:46	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 03:46	16984-48-8	
Sulfate	**53.9**	mg/L	1.0	0.50	1		08/23/24 03:46	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-1I **Lab ID: 92748851010** Collected: 08/20/24 10:25 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.9**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:18	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 13:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 13:52	7440-38-2	
Barium	**0.0072**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 13:52	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 13:52	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 13:52	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 13:52	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 13:52	7440-47-3	
Cobalt	**0.00033J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 13:52	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 13:52	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 13:52	7439-93-2	
Molybdenum	**0.0039J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 13:52	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 13:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 13:52	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:43	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**67.0**	mg/L	25.0	25.0	1		08/22/24 13:25		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		08/23/24 04:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 04:01	16984-48-8	
Sulfate	**4.9**	mg/L	1.0	0.50	1		08/23/24 04:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-1D **Lab ID: 92748851011** Collected: 08/20/24 12:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**17.7**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:22	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	**0.00088J**	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:07	7440-36-0	
Arsenic	**0.00099J**	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:07	7440-38-2	
Barium	**0.0061**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:07	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:07	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:07	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:07	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:07	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:07	7439-92-1	
Lithium	**0.0037J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:07	7439-93-2	
Molybdenum	**0.010**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:07	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:07	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:45	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**140**	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.0**	mg/L	1.0	0.60	1		08/23/24 04:15	16887-00-6	
Fluoride	**0.066J**	mg/L	0.10	0.050	1		08/23/24 04:15	16984-48-8	
Sulfate	**12.2**	mg/L	1.0	0.50	1		08/23/24 04:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-2I **Lab ID: 92748851012** Collected: 08/20/24 15:15 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**30.4**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:25	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:11	7440-38-2	
Barium	**0.0033J**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:11	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:11	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:11	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:11	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:11	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:11	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:11	7439-93-2	
Molybdenum	**0.011**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:11	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:11	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:48	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**184**	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**0.91J**	mg/L	1.0	0.60	1		08/23/24 04:29	16887-00-6	
Fluoride	**0.085J**	mg/L	0.10	0.050	1		08/23/24 04:29	16984-48-8	
Sulfate	**21.3**	mg/L	1.0	0.50	1		08/23/24 04:29	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-FB-1 **Lab ID: 92748851013** Collected: 08/20/24 15:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:29	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:15	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:15	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:15	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:15	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:15	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:15	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:15	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:15	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/22/24 01:34	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/22/24 01:34	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/22/24 01:34	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-FD-1 **Lab ID: 92748851014** Collected: 08/20/24 00:00 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**1.9**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:33	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:18	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:18	7440-38-2	
Barium	**0.0073**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:18	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:18	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:18	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:18	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:18	7440-47-3	
Cobalt	**0.00036J**	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:18	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:18	7439-92-1	
Lithium	**0.0023J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:18	7439-93-2	
Molybdenum	**0.0038J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:18	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:18	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:53	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**59.0**	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**1.3**	mg/L	1.0	0.60	1		08/23/24 06:01	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 06:01	16984-48-8	
Sulfate	**4.8**	mg/L	1.0	0.50	1		08/23/24 06:01	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-5D **Lab ID: 92748851015** Collected: 08/20/24 09:57 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**29.1**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:44	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:51	7440-36-0	
Arsenic	**0.0012J**	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:51	7440-38-2	
Barium	**0.0066**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:51	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:51	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:51	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:51	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:51	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:51	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:51	7439-92-1	
Lithium	**0.0024J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:51	7439-93-2	
Molybdenum	**0.00074J**	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:51	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:51	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:51	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 12:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**212**	mg/L	25.0	25.0	1		08/22/24 13:29		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**3.4**	mg/L	1.0	0.60	1		08/23/24 06:15	16887-00-6	
Fluoride	**0.058J**	mg/L	0.10	0.050	1		08/23/24 06:15	16984-48-8	
Sulfate	**4.3**	mg/L	1.0	0.50	1		08/23/24 06:15	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-17S **Lab ID: 92748851016** Collected: 08/20/24 12:45 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**3.5**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:47	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:54	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:54	7440-38-2	
Barium	**0.016**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:54	7440-39-3	
Beryllium	**0.00010J**	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:54	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:54	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:54	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:54	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:54	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:54	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:54	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:54	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:54	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:04	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**86.0**	mg/L	25.0	25.0	1		08/22/24 13:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**12.7**	mg/L	1.0	0.60	1		08/23/24 06:30	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 06:30	16984-48-8	
Sulfate	**4.6**	mg/L	1.0	0.50	1		08/23/24 06:30	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-18I **Lab ID: 92748851017** Collected: 08/20/24 14:22 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**5.9**	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:51	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 14:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 14:58	7440-38-2	
Barium	**0.019**	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 14:58	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 14:58	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 14:58	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 14:58	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 14:58	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 14:58	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 14:58	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 14:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 14:58	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 14:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 14:58	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:06	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**128**	mg/L	25.0	25.0	1		08/22/24 13:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.8**	mg/L	1.0	0.60	1		08/23/24 06:44	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 06:44	16984-48-8	
Sulfate	**0.74J**	mg/L	1.0	0.50	1		08/23/24 06:44	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-EB-2 **Lab ID: 92748851020** Collected: 08/20/24 18:57 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:55	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 15:02	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 15:02	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 15:02	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 15:02	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 15:02	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 15:02	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 15:02	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 15:02	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 15:02	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 15:02	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 15:02	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 15:02	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 15:02	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**25.0**	mg/L	25.0	25.0	1		08/22/24 13:30		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/22/24 01:48	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/22/24 01:48	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/22/24 01:48	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-FB-2 **Lab ID: 92748851021** Collected: 08/20/24 10:30 Received: 08/21/24 12:30 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 10:30	08/26/24 13:59	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/23/24 15:48	08/27/24 15:05	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/23/24 15:48	08/27/24 15:05	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/23/24 15:48	08/27/24 15:05	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/23/24 15:48	08/27/24 15:05	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/23/24 15:48	08/27/24 15:05	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/23/24 15:48	08/27/24 15:05	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/23/24 15:48	08/27/24 15:05	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/23/24 15:48	08/27/24 15:05	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/23/24 15:48	08/27/24 15:05	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/23/24 15:48	08/27/24 15:05	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/23/24 15:48	08/27/24 15:05	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/23/24 15:48	08/27/24 15:05	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/23/24 15:48	08/27/24 15:05	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:12	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**29.0**	mg/L	25.0	25.0	1		08/23/24 13:38		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/21/24 22:58	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/21/24 22:58	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/21/24 22:58	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-39 **Lab ID: 92748851022** Collected: 08/21/24 12:40 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**19.7**	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 14:39	7440-70-2	M1
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:21	7440-36-0	
Arsenic	**0.0027J**	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:21	7440-38-2	B
Barium	**0.030**	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:21	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:21	7440-41-7	
Boron	**0.13**	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:21	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:21	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:21	7440-47-3	
Cobalt	**0.00048J**	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:21	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:21	7439-92-1	
Lithium	**0.0055J**	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:21	7439-93-2	
Molybdenum	**0.0068J**	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:21	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:21	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:21	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 09:00	09/05/24 13:14	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**235**	mg/L	25.0	25.0	1		08/27/24 16:42		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**4.0**	mg/L	1.0	0.60	1		08/23/24 02:55	16887-00-6	
Fluoride	**0.083J**	mg/L	0.10	0.050	1		08/23/24 02:55	16984-48-8	
Sulfate	**6.6**	mg/L	1.0	0.50	1		08/23/24 02:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-40 **Lab ID: 92748851023** Collected: 08/21/24 15:15 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**6.0**	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 14:52	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:25	7440-36-0	
Arsenic	**0.0014J**	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:25	7440-38-2	B
Barium	**0.033**	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:25	7440-39-3	
Beryllium	**0.00023J**	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:25	7440-41-7	
Boron	**0.061**	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:25	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:25	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:25	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:25	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:25	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:25	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:25	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:25	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:25	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	**0.00033**	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:09	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**94.0**	mg/L	25.0	25.0	1		08/27/24 16:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**5.4**	mg/L	1.0	0.60	1		08/23/24 03:09	16887-00-6	
Fluoride	**0.060J**	mg/L	0.10	0.050	1		08/23/24 03:09	16984-48-8	
Sulfate	**18.2**	mg/L	1.0	0.50	1		08/23/24 03:09	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-YGWA-18S **Lab ID: 92748851024** Collected: 08/21/24 09:45 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.96J**	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 14:56	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:29	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:29	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:29	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:29	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:29	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:29	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:29	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:29	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:29	7439-92-1	
Lithium	**0.0032J**	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:29	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:29	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:29	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:29	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:51	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**79.0**	mg/L	25.0	25.0	1		08/27/24 16:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.4**	mg/L	1.0	0.60	1		08/23/24 03:24	16887-00-6	
Fluoride	**0.051J**	mg/L	0.10	0.050	1		08/23/24 03:24	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.50	1		08/23/24 03:24	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-EB-1 **Lab ID: 92748851025** Collected: 08/21/24 15:25 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	ND	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 15:07	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:33	7440-38-2	
Barium	ND	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:33	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:33	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:33	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:33	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:33	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:33	7439-92-1	
Lithium	ND	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:33	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:33	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:54	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	25.0	25.0	1		08/27/24 16:44		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		08/23/24 00:55	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		08/23/24 00:55	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		08/23/24 00:55	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Sample: YAT-UGRD-FD-2 **Lab ID: 92748851026** Collected: 08/21/24 00:00 Received: 08/22/24 09:25 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D ATL ICP	Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA								
Calcium	**0.96J**	mg/L	1.0	0.12	1	08/24/24 12:34	08/26/24 15:11	7440-70-2	
6020 MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00054	1	08/24/24 14:33	08/30/24 17:37	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00084	1	08/24/24 14:33	08/30/24 17:37	7440-38-2	
Barium	**0.015**	mg/L	0.0050	0.00047	1	08/24/24 14:33	08/30/24 17:37	7440-39-3	
Beryllium	ND	mg/L	0.00050	0.000094	1	08/24/24 14:33	08/30/24 17:37	7440-41-7	
Boron	ND	mg/L	0.040	0.012	1	08/24/24 14:33	08/30/24 17:37	7440-42-8	
Cadmium	ND	mg/L	0.00050	0.00010	1	08/24/24 14:33	08/30/24 17:37	7440-43-9	
Chromium	ND	mg/L	0.0050	0.0019	1	08/24/24 14:33	08/30/24 17:37	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00032	1	08/24/24 14:33	08/30/24 17:37	7440-48-4	
Lead	ND	mg/L	0.0010	0.00016	1	08/24/24 14:33	08/30/24 17:37	7439-92-1	
Lithium	**0.0030J**	mg/L	0.030	0.0016	1	08/24/24 14:33	08/30/24 17:37	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00062	1	08/24/24 14:33	08/30/24 17:37	7439-98-7	
Selenium	ND	mg/L	0.0050	0.00096	1	08/24/24 14:33	08/30/24 17:37	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00038	1	08/24/24 14:33	08/30/24 17:37	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A Pace Analytical Services - Peachtree Corners, GA								
Mercury	ND	mg/L	0.00020	0.00013	1	09/05/24 10:30	09/05/24 14:56	7439-97-6	
2540C Total Dissolved Solids	Analytical Method: SM 2540C-2015 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	**67.0**	mg/L	25.0	25.0	1		08/27/24 16:45		
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	**7.3**	mg/L	1.0	0.60	1		08/23/24 03:38	16887-00-6	
Fluoride	**0.052J**	mg/L	0.10	0.050	1		08/23/24 03:38	16984-48-8	
Sulfate	**1.1**	mg/L	1.0	0.50	1		08/23/24 03:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878060 | Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A | Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004

METHOD BLANK: 4522967 Matrix: Water
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/25/24 20:03	

LABORATORY CONTROL SAMPLE: 4522968

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	109	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522969 4522970

Parameter	Units	92748202015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	96.0	1	1	98.9	101	285	536	75-125	3	20	M1

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878061 — Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A — Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021

METHOD BLANK: 4522971 — Matrix: Water
Associated Lab Samples: 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 12:36	

LABORATORY CONTROL SAMPLE: 4522972

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	113	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522973 4522974

Parameter	Units	92748851005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	6.9	1	1	7.9	8.2	101	133	75-125	4	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878071
QC Batch Method: EPA 3010A
Analysis Method: EPA 6010D
Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4523026 Matrix: Water
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.12	08/26/24 14:29	

LABORATORY CONTROL SAMPLE: 4523027

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	111	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523028 4523029

Parameter	Units	92748851022 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	19.7	1	1	21.1	20.6	149	99	75-125	2	20	M1

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877885
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009

METHOD BLANK: 4521933 Matrix: Water
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/26/24 17:02	
Arsenic	mg/L	ND	0.0050	0.00084	08/26/24 17:02	
Barium	mg/L	ND	0.0050	0.00047	08/26/24 17:02	
Beryllium	mg/L	ND	0.00050	0.000094	08/26/24 17:02	
Boron	mg/L	ND	0.040	0.012	08/26/24 17:02	
Cadmium	mg/L	ND	0.00050	0.00010	08/26/24 17:02	
Chromium	mg/L	ND	0.0050	0.0019	08/26/24 17:02	
Cobalt	mg/L	ND	0.0050	0.00032	08/26/24 17:02	
Lead	mg/L	ND	0.0010	0.00016	08/26/24 17:02	
Lithium	mg/L	ND	0.030	0.0016	08/26/24 17:02	
Molybdenum	mg/L	ND	0.010	0.00062	08/26/24 17:02	
Selenium	mg/L	ND	0.0050	0.00096	08/26/24 17:02	
Thallium	mg/L	ND	0.0010	0.00038	08/26/24 17:02	

LABORATORY CONTROL SAMPLE: 4521934

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	102	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.096	96	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521935 4521936

Parameter	Units	92749202001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.097	0.098	97	97	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521935 4521936

Parameter	Units	92749202001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.11	96	98	75-125	2	20	
Barium	mg/L	163 ug/L	0.1	0.1	0.25	0.25	87	91	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20	
Boron	mg/L	165 ug/L	1	1	1.1	1.1	90	93	75-125	3	20	
Cadmium	mg/L	ND	0.1	0.1	0.095	0.096	95	96	75-125	1	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.099	97	99	75-125	2	20	
Cobalt	mg/L	ND	0.1	0.1	0.096	0.096	94	95	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Lithium	mg/L	ND	0.1	0.1	0.094	0.098	93	97	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.11	100	100	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.095	94	95	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877936
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021

METHOD BLANK: 4522328 Matrix: Water
Associated Lab Samples: 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/27/24 13:45	
Arsenic	mg/L	ND	0.0050	0.00084	08/27/24 13:45	
Barium	mg/L	ND	0.0050	0.00047	08/27/24 13:45	
Beryllium	mg/L	ND	0.00050	0.000094	08/27/24 13:45	
Boron	mg/L	ND	0.040	0.012	08/27/24 13:45	
Cadmium	mg/L	ND	0.00050	0.00010	08/27/24 13:45	
Chromium	mg/L	ND	0.0050	0.0019	08/27/24 13:45	
Cobalt	mg/L	ND	0.0050	0.00032	08/27/24 13:45	
Lead	mg/L	ND	0.0010	0.00016	08/27/24 13:45	
Lithium	mg/L	ND	0.030	0.0016	08/27/24 13:45	
Molybdenum	mg/L	ND	0.010	0.00062	08/27/24 13:45	
Selenium	mg/L	ND	0.0050	0.00096	08/27/24 13:45	
Thallium	mg/L	ND	0.0010	0.00038	08/27/24 13:45	

LABORATORY CONTROL SAMPLE: 4522329

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.096	96	80-120	
Arsenic	mg/L	0.1	0.091	91	80-120	
Barium	mg/L	0.1	0.092	92	80-120	
Beryllium	mg/L	0.1	0.095	95	80-120	
Boron	mg/L	1	0.95	95	80-120	
Cadmium	mg/L	0.1	0.093	93	80-120	
Chromium	mg/L	0.1	0.093	93	80-120	
Cobalt	mg/L	0.1	0.093	93	80-120	
Lead	mg/L	0.1	0.093	93	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.092	92	80-120	
Thallium	mg/L	0.1	0.090	90	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522330 4522331

Parameter	Units	92748851010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	

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Huntersville, NC 28078
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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4522330 4522331

Parameter	Units	92748851010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Barium	mg/L	0.0072	0.1	0.1	0.10	0.099	93	92	75-125	0	20	
Beryllium	mg/L	ND	0.1	0.1	0.088	0.090	88	90	75-125	2	20	
Boron	mg/L	ND	1	1	0.88	0.88	87	87	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.092	0.093	92	93	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.091	0.093	91	93	75-125	2	20	
Cobalt	mg/L	0.00033J	0.1	0.1	0.090	0.091	89	90	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.091	0.091	91	90	75-125	0	20	
Lithium	mg/L	0.0023J	0.1	0.1	0.090	0.091	88	89	75-125	2	20	
Molybdenum	mg/L	0.0039J	0.1	0.1	0.097	0.098	93	94	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.091	0.092	91	92	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.089	0.088	88	88	75-125	0	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878080
QC Batch Method: EPA 3005A
Analysis Method: EPA 6020B
Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4523058 Matrix: Water
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00054	08/30/24 17:08	
Arsenic	mg/L	0.0019J	0.0050	0.00084	08/30/24 17:08	
Barium	mg/L	ND	0.0050	0.00047	08/30/24 17:08	
Beryllium	mg/L	ND	0.00050	0.000094	08/30/24 17:08	
Boron	mg/L	ND	0.040	0.012	08/30/24 17:08	
Cadmium	mg/L	ND	0.00050	0.00010	08/30/24 17:08	
Chromium	mg/L	ND	0.0050	0.0019	08/30/24 17:08	
Cobalt	mg/L	ND	0.0050	0.00032	08/30/24 17:08	
Lead	mg/L	ND	0.0010	0.00016	08/30/24 17:08	
Lithium	mg/L	ND	0.030	0.0016	08/30/24 17:08	
Molybdenum	mg/L	ND	0.010	0.00062	08/30/24 17:08	
Selenium	mg/L	ND	0.0050	0.00096	08/30/24 17:08	
Thallium	mg/L	ND	0.0010	0.00038	08/30/24 17:08	

LABORATORY CONTROL SAMPLE: 4523059

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	103	80-120	
Arsenic	mg/L	0.1	0.11	105	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	111	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.10	102	80-120	
Lithium	mg/L	0.1	0.11	105	80-120	
Molybdenum	mg/L	0.1	0.10	102	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523068 4523069

Parameter	Units	92749319006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Antimony	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.10	99	104	75-125	5	20	

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4523068 4523069

Parameter	Units	92749319006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Barium	mg/L	28.8 ug/L	0.1	0.1	0.13	0.14	99	113	75-125	10	20	
Beryllium	mg/L	ND	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Boron	mg/L	ND	1	1	0.99	0.98	99	98	75-125	1	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	103	105	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	99	98	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.10	98	102	75-125	4	20	
Lithium	mg/L	ND	0.1	0.1	0.095	0.099	94	98	75-125	4	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.11	104	105	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20	
Thallium	mg/L	ND	0.1	0.1	0.090	0.094	90	94	75-125	4	20	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 879197
QC Batch Method: EPA 7470A
Analysis Method: EPA 7470A
Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021, 92748851022

METHOD BLANK: 4528105 Matrix: Water
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020, 92748851021, 92748851022

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/05/24 12:01	

LABORATORY CONTROL SAMPLE: 4528106

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4528107 4528108

Parameter	Units	92748851001 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	0.0026	0.0029	104	116	75-125	11	20	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 880405 | Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A | Analysis Description: 7470 Mercury
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4534210 Matrix: Water
Associated Lab Samples: 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00020	0.00013	09/05/24 13:17	

LABORATORY CONTROL SAMPLE: 4534211

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4534212 4534213

Parameter	Units	92748851023 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.00033	0.0025	0.0025	0.0028	0.0031	99	111	75-125	10	20	

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877500 | 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: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020

METHOD BLANK: 4519927 Matrix: Water
Associated Lab Samples: 92748851001, 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851013, 92748851014, 92748851015, 92748851016, 92748851017, 92748851020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/22/24 13:19	

LABORATORY CONTROL SAMPLE: 4519928

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	414	104	80-120	

SAMPLE DUPLICATE: 4519929

Parameter	Units	92748650029 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	107	108	1	10	

SAMPLE DUPLICATE: 4519930

Parameter	Units	92748851009 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	155	153	1	10	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877828
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851021

METHOD BLANK: 4521675 Matrix: Water
Associated Lab Samples: 92748851021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/23/24 13:37	

LABORATORY CONTROL SAMPLE: 4521676

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	391	98	80-120	

SAMPLE DUPLICATE: 4521677

Parameter	Units	92748851021 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	29.0	29.0	0	10	

SAMPLE DUPLICATE: 4521678

Parameter	Units	92748837001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	146	145	1	10	

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REPORT OF LABORATORY ANALYSIS

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(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 878526
QC Batch Method: SM 2540C-2015
Analysis Method: SM 2540C-2015
Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4524815 Matrix: Water
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	25.0	25.0	08/27/24 16:40	

LABORATORY CONTROL SAMPLE: 4524816

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	404	101	80-120	

SAMPLE DUPLICATE: 4524817

Parameter	Units	92749074006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	126	122	3	10	

SAMPLE DUPLICATE: 4524818

Parameter	Units	92748851022 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	235	234	0	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877309
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851021

METHOD BLANK: 4518928 Matrix: Water
Associated Lab Samples: 92748851021

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/21/24 21:46	
Fluoride	mg/L	ND	0.10	0.050	08/21/24 21:46	
Sulfate	mg/L	ND	1.0	0.50	08/21/24 21:46	

LABORATORY CONTROL SAMPLE: 4518929

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.2	102	90-110	
Fluoride	mg/L	2.5	2.6	104	90-110	
Sulfate	mg/L	50	51.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518930 4518931

Parameter	Units	92748851021 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	ND	50	50	49.1	52.6	98	105	90-110	7	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	100	103	90-110	3	10	
Sulfate	mg/L	ND	50	50	49.1	52.6	98	105	90-110	7	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518932 4518933

Parameter	Units	92748744026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	14.1	50	50	63.7	67.3	99	106	90-110	5	10	
Fluoride	mg/L	0.056J	2.5	2.5	2.5	2.7	96	104	90-110	8	10	
Sulfate	mg/L	0.85J	50	50	50.2	53.8	99	106	90-110	7	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877312
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851013, 92748851020

METHOD BLANK: 4518972 Matrix: Water
Associated Lab Samples: 92748851013, 92748851020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/24 00:36	
Fluoride	mg/L	ND	0.10	0.050	08/22/24 00:36	
Sulfate	mg/L	ND	1.0	0.50	08/22/24 00:36	

LABORATORY CONTROL SAMPLE: 4518973

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.0	104	90-110	
Fluoride	mg/L	2.5	2.6	106	90-110	
Sulfate	mg/L	50	52.9	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518974 4518975

Parameter	Units	92748876001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	13.3	50	50	64.1	64.0	102	101	90-110	0	10	
Fluoride	mg/L	0.23	2.5	2.5	2.8	2.8	103	103	90-110	1	10	
Sulfate	mg/L	4.0	50	50	56.4	56.2	105	104	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4518976 4518977

Parameter	Units	92748776005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	37.7	50	50	88.6	88.6	102	102	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	104	104	90-110	0	10	
Sulfate	mg/L	3.8	50	50	57.7	57.6	108	108	90-110	0	10	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877646
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851001

METHOD BLANK: 4521073 Matrix: Water
Associated Lab Samples: 92748851001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/24 22:10	
Fluoride	mg/L	ND	0.10	0.050	08/22/24 22:10	
Sulfate	mg/L	ND	1.0	0.50	08/22/24 22:10	

LABORATORY CONTROL SAMPLE: 4521074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.7	101	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	50.8	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521075 4521076

Parameter	Units	92749002001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	49.6	50	50	96.7	99.9	94	101	90-110	3	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.7	103	109	90-110	6	10	
Sulfate	mg/L	9.0	50	50	58.1	61.0	98	104	90-110	5	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521077 4521078

Parameter	Units	92748775002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	17.8	50	50	67.6	69.1	100	103	90-110	2	10	
Fluoride	mg/L	2.6	2.5	2.5	4.9	5.0	93	95	90-110	1	10	
Sulfate	mg/L	76.2	50	50	116	117	80	82	90-110	1	10	M1

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877651
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851014, 92748851015, 92748851016, 92748851017

METHOD BLANK: 4521093 Matrix: Water
Associated Lab Samples: 92748851002, 92748851003, 92748851004, 92748851005, 92748851006, 92748851007, 92748851008, 92748851009, 92748851010, 92748851011, 92748851012, 92748851014, 92748851015, 92748851016, 92748851017

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/24 23:36	
Fluoride	mg/L	ND	0.10	0.050	08/22/24 23:36	
Sulfate	mg/L	ND	1.0	0.50	08/22/24 23:36	

LABORATORY CONTROL SAMPLE: 4521094

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	52.0	104	90-110	
Fluoride	mg/L	2.5	2.6	103	90-110	
Sulfate	mg/L	50	52.4	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521095 4521096

Parameter	Units	92748851002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	4.5	50	50	55.1	55.8	101	103	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	99	90-110	1	10	
Sulfate	mg/L	7.6	50	50	58.3	59.0	101	103	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521097 4521098

Parameter	Units	92748851012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	0.91J	50	50	50.6	53.9	99	106	90-110	6	10	
Fluoride	mg/L	0.085J	2.5	2.5	2.6	2.7	99	106	90-110	6	10	
Sulfate	mg/L	21.3	50	50	70.6	73.8	99	105	90-110	5	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

QC Batch: 877665
QC Batch Method: EPA 300.0 Rev 2.1 1993
Analysis Method: EPA 300.0 Rev 2.1 1993
Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

METHOD BLANK: 4521170 Matrix: Water
Associated Lab Samples: 92748851022, 92748851023, 92748851024, 92748851025, 92748851026

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	08/22/24 23:58	
Fluoride	mg/L	ND	0.10	0.050	08/22/24 23:58	
Sulfate	mg/L	ND	1.0	0.50	08/22/24 23:58	

LABORATORY CONTROL SAMPLE: 4521171

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	51.4	103	90-110	
Fluoride	mg/L	2.5	2.5	102	90-110	
Sulfate	mg/L	50	51.6	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521172 4521173

Parameter	Units	92749199002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	15.8	50	50	65.9	67.2	100	103	90-110	2	10	
Fluoride	mg/L	0.098J	2.5	2.5	2.7	2.8	105	108	90-110	3	10	
Sulfate	mg/L	83.5	50	50	114	117	61	67	90-110	2	10	M1

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4521174 4521175

Parameter	Units	92749078002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	3.5	50	50	53.6	54.6	100	102	90-110	2	10	
Fluoride	mg/L	0.081J	2.5	2.5	2.5	2.6	97	99	90-110	3	10	
Sulfate	mg/L	37.3	50	50	87.2	88.2	100	102	90-110	1	10	

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REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

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

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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748851001	**YAT-YGWA-30I**	EPA 3010A	878060	EPA 6010D	878093
92748851002	**YAT-YGWA-14S**	EPA 3010A	878060	EPA 6010D	878093
92748851003	**YAT-YGWA-3I**	EPA 3010A	878060	EPA 6010D	878093
92748851004	**YAT-YGWA-3D**	EPA 3010A	878060	EPA 6010D	878093
92748851005	**YAT-YGWA-21I**	EPA 3010A	878061	EPA 6010D	878094
92748851006	**YAT-YGWA-4I**	EPA 3010A	878061	EPA 6010D	878094
92748851007	**YAT-YGWA-5I**	EPA 3010A	878061	EPA 6010D	878094
92748851008	**YAT-YGWA-20S**	EPA 3010A	878061	EPA 6010D	878094
92748851009	**YAT-YGWA-47**	EPA 3010A	878061	EPA 6010D	878094
92748851010	**YAT-YGWA-1I**	EPA 3010A	878061	EPA 6010D	878094
92748851011	**YAT-YGWA-1D**	EPA 3010A	878061	EPA 6010D	878094
92748851012	**YAT-YGWA-2I**	EPA 3010A	878061	EPA 6010D	878094
92748851013	**YAT-UGRD-FB-1**	EPA 3010A	878061	EPA 6010D	878094
92748851014	**YAT-UGRD-FD-1**	EPA 3010A	878061	EPA 6010D	878094
92748851015	**YAT-YGWA-5D**	EPA 3010A	878061	EPA 6010D	878094
92748851016	**YAT-YGWA-17S**	EPA 3010A	878061	EPA 6010D	878094
92748851017	**YAT-YGWA-18I**	EPA 3010A	878061	EPA 6010D	878094
92748851020	**YAT-UGRD-EB-2**	EPA 3010A	878061	EPA 6010D	878094
92748851021	**YAT-UGRD-FB-2**	EPA 3010A	878061	EPA 6010D	878094
92748851022	**YAT-YGWA-39**	EPA 3010A	878071	EPA 6010D	878097
92748851023	**YAT-YGWA-40**	EPA 3010A	878071	EPA 6010D	878097
92748851024	**YAT-YGWA-18S**	EPA 3010A	878071	EPA 6010D	878097
92748851025	**YAT-UGRD-EB-1**	EPA 3010A	878071	EPA 6010D	878097
92748851026	**YAT-UGRD-FD-2**	EPA 3010A	878071	EPA 6010D	878097
92748851001	**YAT-YGWA-30I**	EPA 3005A	877885	EPA 6020B	877993
92748851002	**YAT-YGWA-14S**	EPA 3005A	877885	EPA 6020B	877993
92748851003	**YAT-YGWA-3I**	EPA 3005A	877885	EPA 6020B	877993
92748851004	**YAT-YGWA-3D**	EPA 3005A	877885	EPA 6020B	877993
92748851005	**YAT-YGWA-21I**	EPA 3005A	877885	EPA 6020B	877993
92748851006	**YAT-YGWA-4I**	EPA 3005A	877885	EPA 6020B	877993
92748851007	**YAT-YGWA-5I**	EPA 3005A	877885	EPA 6020B	877993
92748851008	**YAT-YGWA-20S**	EPA 3005A	877885	EPA 6020B	877993
92748851009	**YAT-YGWA-47**	EPA 3005A	877885	EPA 6020B	877993
92748851010	**YAT-YGWA-1I**	EPA 3005A	877936	EPA 6020B	878012
92748851011	**YAT-YGWA-1D**	EPA 3005A	877936	EPA 6020B	878012
92748851012	**YAT-YGWA-2I**	EPA 3005A	877936	EPA 6020B	878012
92748851013	**YAT-UGRD-FB-1**	EPA 3005A	877936	EPA 6020B	878012
92748851014	**YAT-UGRD-FD-1**	EPA 3005A	877936	EPA 6020B	878012
92748851015	**YAT-YGWA-5D**	EPA 3005A	877936	EPA 6020B	878012
92748851016	**YAT-YGWA-17S**	EPA 3005A	877936	EPA 6020B	878012
92748851017	**YAT-YGWA-18I**	EPA 3005A	877936	EPA 6020B	878012
92748851020	**YAT-UGRD-EB-2**	EPA 3005A	877936	EPA 6020B	878012
92748851021	**YAT-UGRD-FB-2**	EPA 3005A	877936	EPA 6020B	878012
92748851022	**YAT-YGWA-39**	EPA 3005A	878080	EPA 6020B	878102
92748851023	**YAT-YGWA-40**	EPA 3005A	878080	EPA 6020B	878102
92748851024	**YAT-YGWA-18S**	EPA 3005A	878080	EPA 6020B	878102

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748851025	**YAT-UGRD-EB-1**	EPA 3005A	878080	EPA 6020B	878102
92748851026	**YAT-UGRD-FD-2**	EPA 3005A	878080	EPA 6020B	878102
92748851001	**YAT-YGWA-30I**	EPA 7470A	879197	EPA 7470A	880489
92748851002	**YAT-YGWA-14S**	EPA 7470A	879197	EPA 7470A	880489
92748851003	**YAT-YGWA-3I**	EPA 7470A	879197	EPA 7470A	880489
92748851004	**YAT-YGWA-3D**	EPA 7470A	879197	EPA 7470A	880489
92748851005	**YAT-YGWA-21I**	EPA 7470A	879197	EPA 7470A	880489
92748851006	**YAT-YGWA-4I**	EPA 7470A	879197	EPA 7470A	880489
92748851007	**YAT-YGWA-5I**	EPA 7470A	879197	EPA 7470A	880489
92748851008	**YAT-YGWA-20S**	EPA 7470A	879197	EPA 7470A	880489
92748851009	**YAT-YGWA-47**	EPA 7470A	879197	EPA 7470A	880489
92748851010	**YAT-YGWA-1I**	EPA 7470A	879197	EPA 7470A	880489
92748851011	**YAT-YGWA-1D**	EPA 7470A	879197	EPA 7470A	880489
92748851012	**YAT-YGWA-2I**	EPA 7470A	879197	EPA 7470A	880489
92748851013	**YAT-UGRD-FB-1**	EPA 7470A	879197	EPA 7470A	880489
92748851014	**YAT-UGRD-FD-1**	EPA 7470A	879197	EPA 7470A	880489
92748851015	**YAT-YGWA-5D**	EPA 7470A	879197	EPA 7470A	880489
92748851016	**YAT-YGWA-17S**	EPA 7470A	879197	EPA 7470A	880489
92748851017	**YAT-YGWA-18I**	EPA 7470A	879197	EPA 7470A	880489
92748851020	**YAT-UGRD-EB-2**	EPA 7470A	879197	EPA 7470A	880489
92748851021	**YAT-UGRD-FB-2**	EPA 7470A	879197	EPA 7470A	880489
92748851022	**YAT-YGWA-39**	EPA 7470A	879197	EPA 7470A	880489
92748851023	**YAT-YGWA-40**	EPA 7470A	880405	EPA 7470A	880509
92748851024	**YAT-YGWA-18S**	EPA 7470A	880405	EPA 7470A	880509
92748851025	**YAT-UGRD-EB-1**	EPA 7470A	880405	EPA 7470A	880509
92748851026	**YAT-UGRD-FD-2**	EPA 7470A	880405	EPA 7470A	880509
92748851001	**YAT-YGWA-30I**	SM 2540C-2015	877500		
92748851002	**YAT-YGWA-14S**	SM 2540C-2015	877500		
92748851003	**YAT-YGWA-3I**	SM 2540C-2015	877500		
92748851004	**YAT-YGWA-3D**	SM 2540C-2015	877500		
92748851005	**YAT-YGWA-21I**	SM 2540C-2015	877500		
92748851006	**YAT-YGWA-4I**	SM 2540C-2015	877500		
92748851007	**YAT-YGWA-5I**	SM 2540C-2015	877500		
92748851008	**YAT-YGWA-20S**	SM 2540C-2015	877500		
92748851009	**YAT-YGWA-47**	SM 2540C-2015	877500		
92748851010	**YAT-YGWA-1I**	SM 2540C-2015	877500		
92748851011	**YAT-YGWA-1D**	SM 2540C-2015	877500		
92748851012	**YAT-YGWA-2I**	SM 2540C-2015	877500		
92748851013	**YAT-UGRD-FB-1**	SM 2540C-2015	877500		
92748851014	**YAT-UGRD-FD-1**	SM 2540C-2015	877500		
92748851015	**YAT-YGWA-5D**	SM 2540C-2015	877500		
92748851016	**YAT-YGWA-17S**	SM 2540C-2015	877500		
92748851017	**YAT-YGWA-18I**	SM 2540C-2015	877500		
92748851020	**YAT-UGRD-EB-2**	SM 2540C-2015	877500		
92748851021	**YAT-UGRD-FB-2**	SM 2540C-2015	877828		
92748851022	**YAT-YGWA-39**	SM 2540C-2015	878526		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient
Pace Project No.: 92748851

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748851023	**YAT-YGWA-40**	SM 2540C-2015	878526		
92748851024	**YAT-YGWA-18S**	SM 2540C-2015	878526		
92748851025	**YAT-UGRD-EB-1**	SM 2540C-2015	878526		
92748851026	**YAT-UGRD-FD-2**	SM 2540C-2015	878526		
92748851001	**YAT-YGWA-30I**	EPA 300.0 Rev 2.1 1993	877646		
92748851002	**YAT-YGWA-14S**	EPA 300.0 Rev 2.1 1993	877651		
92748851003	**YAT-YGWA-3I**	EPA 300.0 Rev 2.1 1993	877651		
92748851004	**YAT-YGWA-3D**	EPA 300.0 Rev 2.1 1993	877651		
92748851005	**YAT-YGWA-21I**	EPA 300.0 Rev 2.1 1993	877651		
92748851006	**YAT-YGWA-4I**	EPA 300.0 Rev 2.1 1993	877651		
92748851007	**YAT-YGWA-5I**	EPA 300.0 Rev 2.1 1993	877651		
92748851008	**YAT-YGWA-20S**	EPA 300.0 Rev 2.1 1993	877651		
92748851009	**YAT-YGWA-47**	EPA 300.0 Rev 2.1 1993	877651		
92748851010	**YAT-YGWA-1I**	EPA 300.0 Rev 2.1 1993	877651		
92748851011	**YAT-YGWA-1D**	EPA 300.0 Rev 2.1 1993	877651		
92748851012	**YAT-YGWA-2I**	EPA 300.0 Rev 2.1 1993	877651		
92748851013	**YAT-UGRD-FB-1**	EPA 300.0 Rev 2.1 1993	877312		
92748851014	**YAT-UGRD-FD-1**	EPA 300.0 Rev 2.1 1993	877651		
92748851015	**YAT-YGWA-5D**	EPA 300.0 Rev 2.1 1993	877651		
92748851016	**YAT-YGWA-17S**	EPA 300.0 Rev 2.1 1993	877651		
92748851017	**YAT-YGWA-18I**	EPA 300.0 Rev 2.1 1993	877651		
92748851020	**YAT-UGRD-EB-2**	EPA 300.0 Rev 2.1 1993	877312		
92748851021	**YAT-UGRD-FB-2**	EPA 300.0 Rev 2.1 1993	877309		
92748851022	**YAT-YGWA-39**	EPA 300.0 Rev 2.1 1993	877665		
92748851023	**YAT-YGWA-40**	EPA 300.0 Rev 2.1 1993	877665		
92748851024	**YAT-YGWA-18S**	EPA 300.0 Rev 2.1 1993	877665		
92748851025	**YAT-UGRD-EB-1**	EPA 300.0 Rev 2.1 1993	877665		
92748851026	**YAT-UGRD-FD-2**	EPA 300.0 Rev 2.1 1993	877665		

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92748851

92748851

Company Name:	Southern Company	Contact/Report To:	Trey Singletor
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Analysis Requested

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G	8/20/24	1737	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G	8/20/24	1618	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G	8/20/24	1302	—	—		5		X	X	X	X	See Remarks

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non conformances identified for sample:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) KIM LAPSZYNSKI
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished By/Company: (Signature)	Date/Time: 8/21/24 0820	Received by/Company: (Signature)	Date/Time: 8/21/24 0820	Tracking Number:
Relinquished by/Company: (Signature)	Date/Time: 8/21/24 1020	Received by/Company: (Signature)	Date/Time: 8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature)	Date/Time: 8/21/24 1250	Received by/Company: (Signature)	Date/Time: 8/21/24 1230	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORO-0019_v01_082123 ©

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain of Custody is a LEGAL DOCUMENT. Complete all relevant fields.

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No: YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Solid Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 60mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only:
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (for Composite Start) Date	Collected (for Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers: Plastic	Number & Type of Containers: Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non conformance identified for sample
YAT-YGWA-47	WG	G			—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G	8/20/24	1640	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G	8/20/24	1200	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G	8/20/24	0959	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-1BI	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B, 6010D: Ca
App IV Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) Perry Sindebaker
Signature: (Arcadis) Perry Sindebaker

Additional Instructions from Pace*:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Tracking Number:
Perry Sindebaker / Arcadis	8/21/24 0800	Rebecca Dare / Arcadis	8/21/24 0800	
Rebecca Dare / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Ryan Williams / Pace	8/21/24 1230	MAW / Pace	8/21/24 1230	
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time	Page: of

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ENV-FRM-CORO-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		CC E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size:** 3 3 2 1

Identify Container Preservative Type:** 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSUM, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonaie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW) Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-47	WG	G	8/20/24	1735	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks
														See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl, 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Sparks
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/20/24 1830	(Arcadis)	8/20/24 1830	
Relinquished by/Company: (Signature) (Arcadis)	8/21/24 1020	Ryan W. Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Ryan W. Williams / Pace	8/21/24 1230	Received by/Company: (Signature) Pace	8/21/24 1230	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ®

Pace® Location Requested (City/State): Pace Analytical Charlotte, 9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To: Trey Singleton
Phone #: 205.346.8317
E-Mail: rosingle@southernco.com
Cc E-Mail: Arcadis contacts
Customer Project #: Task No. YAT-CCR-ASSMT-202452
Project Name: Georgia Power Yates
Invoice To:
Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient
Purchase Order # (if applicable): GPC82474-0002
Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s): Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other
Regulatory Program (DW, RCRA, etc.) as applicable:
Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other
Date Results Requested:
DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Specify Container Size **: 3 | 3 | 2 | 1
Identify Container Preservative Type***: 2 | 1 | 1 | 2

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID: ; Table #: ; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected Date	Collected Time	Composite End Date	Composite End Time	Res. Cl2	Plastic	Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G	8/20/24	1025	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G	8/20/24	1230	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G	8/20/24	1515	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Pruett
Signature: (Arcadis) [signature]

Additional Instructions from Pace®:
Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time
[signature]	8/20/24 1830	[signature] / Arcadis	8/20/24 1830
[signature] / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020
Ryan Williams / Pace	8/21/24 1230	MTW / Pace	8/21/24

Tracking Number:
Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields.

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	tesingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No: YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC62474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State Origin of Sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQuIS
[ ] Other:

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other:
Date Results Requested:

Dw PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (O); Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
Acct.Num / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl, 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Trusty
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/20/24 1830	Arcadis	8/20/24 1830	
Relinquished by/Company: (Signature) Arcadis	8/21/24 1020	Tyan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Tyan Williams / Pace	8/21/24 1230	Received by/Company: (Signature) Pace	8/21/24 1230	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. Complete all relevant fields.

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	tsingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Date Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program: (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	
		Date Results Requested:	
		DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [X] No	
		Analysis:	

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only

Proj. Mgr: Bonnie Vang

Acct/Num / Client ID:

Table #:

Profile / Template: 16561

Prelog / Bottle Ord. ID:

Preservation non conformance identified for sample:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/6320	Sample Comment	Preservation non conformance identified for sample
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G	8/20/24	0957	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G	8/20/24	1245	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G	8/20/24	1422	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/21/24 1020	Tracking Number:
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/21/24 1230	Received by/Company: (Signature) Mary / Pace	Date/Time: 8/21/24 1230	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at: https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Comp

Project #:

WO#: 92748851

PM: BV Due Date: 09/05/24
CLIENT: 92-GP-Yates

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☒ Pace ☐ Other:____

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents: KJ

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: 2.4 Correction Factor: Add/Subtract (°C) 0

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

Cooler Temp Corrected (°C): 2.4

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: ____________ Date/Time: ____________

Project Manager SCURF Review: ____________ Date: ____________

Project Manager SRF Review: ____________ Date: ____________

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO# : 92748851

*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 #

PM: BV Due Date: 09/05/24

CLIENT: 92-GP-Yates

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client Southern Comp Profile/EZ (Circle one) 16561 Notes

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)	BP1N2	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)	AG2U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
cc																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

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

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

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*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 #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client: Southern Comp Pronto/EZ (Circle one) 16561 Notes:

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)	BP1N	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)	DG9-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation Vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
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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.

Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave., Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace*:

Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/20/24 1830	Arcadis	8/20/24 1830
Arcadis	8/21/24 1020	Pace	8/21/24 1020
Pace	8/21/24 1230		8/21/24 1230

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

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ENV-FRM-CORO-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [ ] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G	8/20/24					5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G	8/20/24	1857				5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	8/20/24	1030	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Jessica Ware / Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1620	
Ryan Williams / Pace	8/21/24 1230	Mow / Pace	8/21/24 1230	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace

DC#_Title: ENV-FRM-HUNT-0008 v00_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company

Project #:

Courier: ☐ Commercial ☒ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) 0

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

Cooler Temp Corrected (°C): 1.8

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client Southern Comp Profile/EZ (Circle one) 16561 Notes

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5																														
6																														
7																														
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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.

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92748851

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable)	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G	8/21/24	1240	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G	8/21/24	1515	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis): David Prouty
Signature: (Arcadis): David Prouty

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty/Arcadis	8/22/24 0925	Ryan Williams/Pace	8/22/24 0925	
Ryan Williams/Pace	8/22/24 1215	Chase Hunt 8/22/24	1215	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G	8/21/24	0945	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925
Ryan Williams / Pace	8/22/24 1215	Pamela Hunter	8/23/24 1245
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other

Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L (2) 500mL (3) 250mL (4) 125mL, (5) 100mL, (6) 40ml vial (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	8/21/24	1525	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G	8/21/24	—	—	—		5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:
Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C): Corrected Temp. (°C):

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
Arcadis	8/22/24 0925	Ryan W. Williams / Pace	8/22/24 0925	
Ryan W. Williams / Pace	8/22/24 1215		8/22/24 1215	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

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Pace

DC#_Title: ENV-FRM-[illegible]_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ Fed Ex ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☐ N/A

Date/Initials Person Examining Contents: 8/22/24 CM

Packing Material: ☐ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☐ N/A

Thermometer: ☑ IR Gun ID: 230

Type of Ice: ☑ Wet ☐ Blue ☐ None

Cooler Temp: 2.2 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): 2.2

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

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

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

*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 #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	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)	DG9H-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AGDU-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

September 23, 2024

Trey Singleton
Southern Company
241 Ralp McGill Blvd NE
Bin 10160
Atlanta, GA 30308

RE: Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Dear Trey Singleton:

Enclosed are the analytical results for sample(s) received by the laboratory between August 21, 2024 and August 22, 2024. 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

Revision 1: Project name corrected.

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

Sincerely,

Bonnie Vang

Bonnie Vang
bonnie.vang@pacelabs.com
704-977-0968
Project Manager

Enclosures

cc: Geoffrey Gay, Arcadis-ATL
Laura Midkiff, Southern Company
Alex Simpson, Arcadis
Becky Steever, Arcadis
Jessica Ware, Arcadis
Albert Zumbuhl, Arcadis

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

CERTIFICATIONS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Pace Analytical Services Pennsylvania
1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
ANABISO/IEC 17025:2017 Rad Cert#: L24170
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 2950
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA010
Louisiana DEQ/TNI Certification #: 04086
Maine Certification #: 2023021
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 #: PA014572023-03
New Hampshire/TNI Certification #: 297622
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 #: PA200002-015
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: TN02867
Texas/TNI Certification #: T104704188-22-18
Utah/TNI Certification #: PA014572223-14
USDA Soil Permit #: 525-23-67-77263
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

Pace Analytical Services, LLC
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SAMPLE SUMMARY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92748880001	**YAT-YGWA-30I**	Water	08/20/24 17:37	08/21/24 10:20
92748880002	**YAT-YGWA-14S**	Water	08/20/24 16:18	08/21/24 10:20
92748880003	**YAT-YGWA-3I**	Water	08/20/24 14:30	08/21/24 10:20
92748880004	**YAT-YGWA-3D**	Water	08/20/24 13:02	08/21/24 10:20
92748880005	**YAT-YGWA-21I**	Water	08/20/24 16:40	08/21/24 10:20
92748880006	**YAT-YGWA-4I**	Water	08/20/24 12:00	08/21/24 10:20
92748880007	**YAT-YGWA-5I**	Water	08/20/24 09:59	08/21/24 10:20
92748880008	**YAT-YGWA-20S**	Water	08/20/24 14:30	08/21/24 10:20
92748880009	**YAT-YGWA-47**	Water	08/20/24 17:35	08/21/24 10:20
92748880010	**YAT-YGWA-1I**	Water	08/20/24 10:25	08/21/24 10:20
92748880011	**YAT-YGWA-1D**	Water	08/20/24 12:30	08/21/24 10:20
92748880012	**YAT-YGWA-2I**	Water	08/20/24 15:15	08/21/24 10:20
92748880013	**YAT-UGRD-FB-1**	Water	08/20/24 15:30	08/21/24 10:20
92748880015	**YAT-YGWA-5D**	Water	08/20/24 09:57	08/21/24 10:20
92748880016	**YAT-YGWA-17S**	Water	08/20/24 12:45	08/21/24 10:20
92748880017	**YAT-YGWA-18I**	Water	08/20/24 14:22	08/21/24 10:20
92748880019	**YAT-UGRD-FD-1**	Water	08/20/24 00:00	08/21/24 10:20
92748880020	**YAT-UGRD-EB-2**	Water	08/20/24 18:57	08/21/24 10:20
92748880021	**YAT-UGRD-FB-2**	Water	08/20/24 10:30	08/21/24 10:20
92748880022	**YAT-YGWA-39**	Water	08/21/24 12:40	08/22/24 09:25
92748880023	**YAT-YGWA-40**	Water	08/21/24 15:15	08/22/24 09:25
92748880024	**YAT-YGWA-18S**	Water	08/21/24 09:45	08/22/24 09:25
92748880025	**YAT-UGRD-EB-1**	Water	08/21/24 15:25	08/22/24 09:25
92748880026	**YAT-UGRD-FD-2**	Water	08/21/24 00:00	08/22/24 09:25

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92748880001	**YAT-YGWA-30I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880002	**YAT-YGWA-14S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880003	**YAT-YGWA-3I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880004	**YAT-YGWA-3D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880005	**YAT-YGWA-21I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880006	**YAT-YGWA-4I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880007	**YAT-YGWA-5I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880008	**YAT-YGWA-20S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880009	**YAT-YGWA-47**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880010	**YAT-YGWA-1I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880011	**YAT-YGWA-1D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880012	**YAT-YGWA-2I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880013	**YAT-UGRD-FB-1**	EPA 9315	SLC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

SAMPLE ANALYTE COUNT

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880015	**YAT-YGWA-5D**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880016	**YAT-YGWA-17S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880017	**YAT-YGWA-18I**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	JJS1	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880019	**YAT-UGRD-FD-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880020	**YAT-UGRD-EB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880021	**YAT-UGRD-FB-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880022	**YAT-YGWA-39**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880023	**YAT-YGWA-40**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880024	**YAT-YGWA-18S**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880025	**YAT-UGRD-EB-1**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92748880026	**YAT-UGRD-FD-2**	EPA 9315	SLC	1	PASI-PA
		EPA 9320	ZPC	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880001	**YAT-YGWA-30I**					
EPA 9315	Radium-226	0.115U ± 0.117 (0.232) C:88% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	0.633U ± 0.367 (0.666) C:81% T:86%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	0.748U ± 0.484 (0.898)	pCi/L		09/16/24 16:08	
92748880002	**YAT-YGWA-14S**					
EPA 9315	Radium-226	-0.00239U ± 0.0816 (0.223) C:92% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	0.667U ± 0.382 (0.696) C:82% T:88%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	0.667U ± 0.464 (0.919)	pCi/L		09/16/24 16:08	
92748880003	**YAT-YGWA-3I**					
EPA 9315	Radium-226	0.663 ± 0.237 (0.229) C:73% T:NA	pCi/L		09/16/24 09:33	
EPA 9320	Radium-228	0.258U ± 0.332 (0.706) C:86% T:83%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	0.921U ± 0.569 (0.935)	pCi/L		09/16/24 16:08	
92748880004	**YAT-YGWA-3D**					
EPA 9315	Radium-226	1.00 ± 0.279 (0.232) C:97% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	2.09 ± 0.576 (0.575) C:86% T:87%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	3.09 ± 0.855 (0.807)	pCi/L		09/16/24 16:08	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880005	**YAT-YGWA-21I**					
EPA 9315	Radium-226	0.170U ± 0.127 (0.225) C:93% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	0.375U ± 0.376 (0.772) C:83% T:89%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	0.545U ± 0.503 (0.997)	pCi/L		09/16/24 16:08	
92748880006	**YAT-YGWA-4I**					
EPA 9315	Radium-226	1.02 ± 0.302 (0.256) C:98% T:NA	pCi/L		09/16/24 08:39	
EPA 9320	Radium-228	0.156U ± 0.315 (0.694) C:84% T:91%	pCi/L		09/11/24 14:01	
Total Radium Calculation	Total Radium	1.18 ± 0.617 (0.950)	pCi/L		09/16/24 16:08	
92748880007	**YAT-YGWA-5I**					
EPA 9315	Radium-226	0.170U ± 0.121 (0.208) C:102% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.525U ± 0.364 (0.697) C:82% T:85%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.695U ± 0.485 (0.905)	pCi/L		09/16/24 16:08	
92748880008	**YAT-YGWA-20S**					
EPA 9315	Radium-226	0.0893U ± 0.111 (0.234) C:96% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.282U ± 0.317 (0.663) C:86% T:84%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.371U ± 0.428 (0.897)	pCi/L		09/16/24 16:08	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880009	**YAT-YGWA-47**					
EPA 9315	Radium-226	0.243U ± 0.165 (0.297) C:83% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.630U ± 0.371 (0.667) C:86% T:82%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.873U ± 0.536 (0.964)	pCi/L		09/16/24 16:08	
92748880010	**YAT-YGWA-1I**					
EPA 9315	Radium-226	0.0860U ± 0.0997 (0.203) C:89% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.564U ± 0.350 (0.650) C:81% T:91%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.650U ± 0.450 (0.853)	pCi/L		09/16/24 16:08	
92748880011	**YAT-YGWA-1D**					
EPA 9315	Radium-226	0.225U ± 0.144 (0.246) C:91% T:NA	pCi/L		09/16/24 08:41	
EPA 9320	Radium-228	0.235U ± 0.345 (0.743) C:84% T:87%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.460U ± 0.489 (0.989)	pCi/L		09/16/24 16:08	
92748880012	**YAT-YGWA-2I**					
EPA 9315	Radium-226	0.0451U ± 0.0938 (0.218) C:96% T:NA	pCi/L		09/16/24 08:41	
EPA 9320	Radium-228	0.0461U ± 0.317 (0.730) C:82% T:90%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.0912U ± 0.411 (0.948)	pCi/L		09/16/24 16:08	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880013	**YAT-UGRD-FB-1**					
EPA 9315	Radium-226	-0.0392U ± 0.0876 (0.254) C:94% T:NA	pCi/L		09/16/24 08:41	
EPA 9320	Radium-228	0.488U ± 0.355 (0.692) C:82% T:90%	pCi/L		09/11/24 14:04	
Total Radium Calculation	Total Radium	0.488U ± 0.443 (0.946)	pCi/L		09/16/24 16:08	
92748880015	**YAT-YGWA-5D**					
EPA 9315	Radium-226	2.29 ± 0.484 (0.250) C:90% T:NA	pCi/L		09/16/24 08:40	
EPA 9320	Radium-228	0.732 ± 0.360 (0.612) C:85% T:91%	pCi/L		09/11/24 14:05	
Total Radium Calculation	Total Radium	3.02 ± 0.844 (0.862)	pCi/L		09/16/24 16:08	
92748880016	**YAT-YGWA-17S**					
EPA 9315	Radium-226	0.0243U ± 0.117 (0.295) C:79% T:NA	pCi/L		09/16/24 07:59	
EPA 9320	Radium-228	0.530U ± 0.341 (0.637) C:82% T:91%	pCi/L		09/11/24 14:05	
Total Radium Calculation	Total Radium	0.554U ± 0.458 (0.932)	pCi/L		09/16/24 15:34	
92748880017	**YAT-YGWA-18I**					
EPA 9315	Radium-226	0.0117U ± 0.0900 (0.240) C:79% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.211U ± 0.322 (0.696) C:84% T:84%	pCi/L		09/11/24 14:05	
Total Radium Calculation	Total Radium	0.223U ± 0.412 (0.936)	pCi/L		09/16/24 15:34	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880019	**YAT-UGRD-FD-1**					
EPA 9315	Radium-226	0.0784U ± 0.127 (0.285) C:79% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.477U ± 0.302 (0.553) C:87% T:90%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.555U ± 0.429 (0.838)	pCi/L		09/16/24 15:34	
92748880020	**YAT-UGRD-EB-2**					
EPA 9315	Radium-226	0.108U ± 0.130 (0.269) C:79% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.393U ± 0.311 (0.610) C:81% T:92%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.501U ± 0.441 (0.879)	pCi/L		09/16/24 15:34	
92748880021	**YAT-UGRD-FB-2**					
EPA 9315	Radium-226	0.0687U ± 0.0992 (0.213) C:84% T:NA	pCi/L		09/16/24 08:00	
EPA 9320	Radium-228	0.625U ± 0.399 (0.749) C:78% T:84%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.694U ± 0.498 (0.962)	pCi/L		09/16/24 15:34	
92748880022	**YAT-YGWA-39**					
EPA 9315	Radium-226	0.575 ± 0.294 (0.450) C:97% T:NA	pCi/L		09/13/24 15:20	
EPA 9320	Radium-228	0.943 ± 0.504 (0.918) C:75% T:88%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	1.52 ± 0.798 (1.37)	pCi/L		09/16/24 16:11	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

SUMMARY OF DETECTION

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab Sample ID / Method	Client Sample ID / Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92748880023	**YAT-YGWA-40**					
EPA 9315	Radium-226	0.146U ± 0.157 (0.308) C:95% T:NA	pCi/L		09/13/24 15:20	
EPA 9320	Radium-228	0.119U ± 0.368 (0.827) C:82% T:86%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.265U ± 0.525 (1.14)	pCi/L		09/16/24 16:11	
92748880024	**YAT-YGWA-18S**					
EPA 9315	Radium-226	0.0674U ± 0.156 (0.371) C:93% T:NA	pCi/L		09/13/24 15:21	
EPA 9320	Radium-228	0.617U ± 0.458 (0.912) C:80% T:91%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.684U ± 0.614 (1.28)	pCi/L		09/16/24 16:11	
92748880025	**YAT-UGRD-EB-1**					
EPA 9315	Radium-226	0.000U ± 0.140 (0.380) C:94% T:NA	pCi/L		09/13/24 15:21	
EPA 9320	Radium-228	0.462U ± 0.397 (0.800) C:76% T:85%	pCi/L		09/11/24 14:23	
Total Radium Calculation	Total Radium	0.462U ± 0.537 (1.18)	pCi/L		09/16/24 16:11	
92748880026	**YAT-UGRD-FD-2**					
EPA 9315	Radium-226	0.239U ± 0.201 (0.360) C:80% T:NA	pCi/L		09/13/24 15:35	
EPA 9320	Radium-228	0.304U ± 0.323 (0.669) C:81% T:85%	pCi/L		09/11/24 14:24	
Total Radium Calculation	Total Radium	0.543U ± 0.524 (1.03)	pCi/L		09/16/24 16:11	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-30I **Lab ID: 92748880001** Collected: 08/20/24 17:37 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.115U ± 0.117 (0.232) C:88% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.633U ± 0.367 (0.666) C:81% T:86%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.748U ± 0.484 (0.898)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-14S **Lab ID: 92748880002** Collected: 08/20/24 16:18 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.00239U ± 0.0816 (0.223) C:92% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.667U ± 0.382 (0.696) C:82% T:88%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.667U ± 0.464 (0.919)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-3I **Lab ID: 92748880003** Collected: 08/20/24 14:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.663 ± 0.237 (0.229) C:73% T:NA**	pCi/L	09/16/24 09:33	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.258U ± 0.332 (0.706) C:86% T:83%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.921U ± 0.569 (0.935)**	pCi/L	09/16/24 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-3D **Lab ID: 92748880004** Collected: 08/20/24 13:02 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.00 ± 0.279 (0.232) C:97% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**2.09 ± 0.576 (0.575) C:86% T:87%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.09 ± 0.855 (0.807)**	pCi/L	09/16/24 16:08	7440-14-4	

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-21I **Lab ID: 92748880005** Collected: 08/20/24 16:40 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.170U ± 0.127 (0.225) C:93% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.375U ± 0.376 (0.772) C:83% T:89%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.545U ± 0.503 (0.997)**	pCi/L	09/16/24 16:08	7440-14-4	

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-4I **Lab ID: 92748880006** Collected: 08/20/24 12:00 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**1.02 ± 0.302 (0.256) C:98% T:NA**	pCi/L	09/16/24 08:39	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.156U ± 0.315 (0.694) C:84% T:91%**	pCi/L	09/11/24 14:01	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.18 ± 0.617 (0.950)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-5I **Lab ID: 92748880007** Collected: 08/20/24 09:59 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.170U ± 0.121 (0.208) C:102% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.525U ± 0.364 (0.697) C:82% T:85%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.695U ± 0.485 (0.905)**	pCi/L	09/16/24 16:08	7440-14-4	

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-20S **Lab ID: 92748880008** Collected: 08/20/24 14:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0893U ± 0.111 (0.234) C:96% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.282U ± 0.317 (0.663) C:86% T:84%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.371U ± 0.428 (0.897)**	pCi/L	09/16/24 16:08	7440-14-4	

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-47 **Lab ID: 92748880009** Collected: 08/20/24 17:35 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.243U ± 0.165 (0.297) C:83% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.630U ± 0.371 (0.667) C:86% T:82%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.873U ± 0.536 (0.964)**	pCi/L	09/16/24 16:08	7440-14-4	

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-1I **Lab ID: 92748880010** Collected: 08/20/24 10:25 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0860U ± 0.0997 (0.203) C:89% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.564U ± 0.350 (0.650) C:81% T:91%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.650U ± 0.450 (0.853)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-1D **Lab ID: 92748880011** Collected: 08/20/24 12:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.225U ± 0.144 (0.246) C:91% T:NA**	pCi/L	09/16/24 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.235U ± 0.345 (0.743) C:84% T:87%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.460U ± 0.489 (0.989)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-2I **Lab ID: 92748880012** Collected: 08/20/24 15:15 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0451U ± 0.0938 (0.218) C:96% T:NA**	pCi/L	09/16/24 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.0461U ± 0.317 (0.730) C:82% T:90%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.0912U ± 0.411 (0.948)**	pCi/L	09/16/24 16:08	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-FB-1 **Lab ID: 92748880013** Collected: 08/20/24 15:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**-0.0392U ± 0.0876 (0.254) C:94% T:NA**	pCi/L	09/16/24 08:41	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.488U ± 0.355 (0.692) C:82% T:90%**	pCi/L	09/11/24 14:04	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.488U ± 0.443 (0.946)**	pCi/L	09/16/24 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-5D **Lab ID: 92748880015** Collected: 08/20/24 09:57 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**2.29 ± 0.484 (0.250) C:90% T:NA**	pCi/L	09/16/24 08:40	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.732 ± 0.360 (0.612) C:85% T:91%**	pCi/L	09/11/24 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**3.02 ± 0.844 (0.862)**	pCi/L	09/16/24 16:08	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-17S **Lab ID: 92748880016** Collected: 08/20/24 12:45 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0243U ± 0.117 (0.295) C:79% T:NA**	pCi/L	09/16/24 07:59	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.530U ± 0.341 (0.637) C:82% T:91%**	pCi/L	09/11/24 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.554U ± 0.458 (0.932)**	pCi/L	09/16/24 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-18I **Lab ID: 92748880017** Collected: 08/20/24 14:22 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0117U ± 0.0900 (0.240) C:79% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.211U ± 0.322 (0.696) C:84% T:84%**	pCi/L	09/11/24 14:05	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.223U ± 0.412 (0.936)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-FD-1 **Lab ID: 92748880019** Collected: 08/20/24 00:00 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0784U ± 0.127 (0.285) C:79% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.477U ± 0.302 (0.553) C:87% T:90%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.555U ± 0.429 (0.838)**	pCi/L	09/16/24 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-EB-2 **Lab ID: 92748880020** Collected: 08/20/24 18:57 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.108U ± 0.130 (0.269) C:79% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.393U ± 0.311 (0.610) C:81% T:92%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.501U ± 0.441 (0.879)**	pCi/L	09/16/24 15:34	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-FB-2 **Lab ID: 92748880021** Collected: 08/20/24 10:30 Received: 08/21/24 10:20 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0687U ± 0.0992 (0.213) C:84% T:NA**	pCi/L	09/16/24 08:00	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.625U ± 0.399 (0.749) C:78% T:84%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.694U ± 0.498 (0.962)**	pCi/L	09/16/24 15:34	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-39 **Lab ID: 92748880022** Collected: 08/21/24 12:40 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.575 ± 0.294 (0.450) C:97% T:NA**	pCi/L	09/13/24 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.943 ± 0.504 (0.918) C:75% T:88%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**1.52 ± 0.798 (1.37)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-40 **Lab ID: 92748880023** Collected: 08/21/24 15:15 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.146U ± 0.157 (0.308) C:95% T:NA**	pCi/L	09/13/24 15:20	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.119U ± 0.368 (0.827) C:82% T:86%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.265U ± 0.525 (1.14)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-YGWA-18S **Lab ID: 92748880024** Collected: 08/21/24 09:45 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.0674U ± 0.156 (0.371) C:93% T:NA**	pCi/L	09/13/24 15:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.617U ± 0.458 (0.912) C:80% T:91%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.684U ± 0.614 (1.28)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-EB-1 **Lab ID: 92748880025** Collected: 08/21/24 15:25 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.000U ± 0.140 (0.380) C:94% T:NA**	pCi/L	09/13/24 15:21	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.462U ± 0.397 (0.800) C:76% T:85%**	pCi/L	09/11/24 14:23	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.462U ± 0.537 (1.18)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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(704)875-9092

ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Sample: YAT-UGRD-FD-2 **Lab ID: 92748880026** Collected: 08/21/24 00:00 Received: 08/22/24 09:25 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	**0.239U ± 0.201 (0.360) C:80% T:NA**	pCi/L	09/13/24 15:35	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	**0.304U ± 0.323 (0.669) C:81% T:85%**	pCi/L	09/11/24 14:24	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	**0.543U ± 0.524 (1.03)**	pCi/L	09/16/24 16:11	7440-14-4	

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 693372 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880022, 92748880023, 92748880024, 92748880025, 92748880026

METHOD BLANK: 3376218 Matrix: Water
Associated Lab Samples: 92748880022, 92748880023, 92748880024, 92748880025, 92748880026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0491 ± 0.141 (0.426) C:82% T:NA	pCi/L	09/13/24 15:20	

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

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 692082
QC Batch Method: EPA 9315
Analysis Method: EPA 9315
Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880016, 92748880017, 92748880019, 92748880020, 92748880021

METHOD BLANK: 3370048 Matrix: Water
Associated Lab Samples: 92748880016, 92748880017, 92748880019, 92748880020, 92748880021

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0815 ± 0.144 (0.327) C:92% T:NA	pCi/L	09/16/24 08:41	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 691960
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880001, 92748880002, 92748880003, 92748880004, 92748880005, 92748880006, 92748880007, 92748880008, 92748880009, 92748880010, 92748880011, 92748880012, 92748880013, 92748880015, 92748880016, 92748880017

METHOD BLANK: 3369428
Matrix: Water
Associated Lab Samples: 92748880001, 92748880002, 92748880003, 92748880004, 92748880005, 92748880006, 92748880007, 92748880008, 92748880009, 92748880010, 92748880011, 92748880012, 92748880013, 92748880015, 92748880016, 92748880017

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.161 ± 0.318 (0.699) C:84% T:86%	pCi/L	09/11/24 14:00	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 691962
QC Batch Method: EPA 9320
Analysis Method: EPA 9320
Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880019, 92748880020, 92748880021, 92748880022, 92748880023, 92748880024, 92748880025, 92748880026

METHOD BLANK: 3369429 Matrix: Water
Associated Lab Samples: 92748880019, 92748880020, 92748880021, 92748880022, 92748880023, 92748880024, 92748880025, 92748880026

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.325 ± 0.297 (0.601) C:85% T:93%	pCi/L	09/11/24 14:23	

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: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

QC Batch: 692081 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92748880001, 92748880002, 92748880003, 92748880004, 92748880005, 92748880006, 92748880007, 92748880008, 92748880009, 92748880010, 92748880011, 92748880012, 92748880013, 92748880015

METHOD BLANK: 3370042 Matrix: Water
Associated Lab Samples: 92748880001, 92748880002, 92748880003, 92748880004, 92748880005, 92748880006, 92748880007, 92748880008, 92748880009, 92748880010, 92748880011, 92748880012, 92748880013, 92748880015

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	-0.0188 ± 0.0803 (0.237) C:93% T:NA	pCi/L	09/13/24 15:25	

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REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
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Huntersville, NC 28078
(704)875-9092

QUALIFIERS

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

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.

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748880001	**YAT-YGWA-30I**	EPA 9315	692081		
92748880002	**YAT-YGWA-14S**	EPA 9315	692081		
92748880003	**YAT-YGWA-3I**	EPA 9315	692081		
92748880004	**YAT-YGWA-3D**	EPA 9315	692081		
92748880005	**YAT-YGWA-21I**	EPA 9315	692081		
92748880006	**YAT-YGWA-4I**	EPA 9315	692081		
92748880007	**YAT-YGWA-5I**	EPA 9315	692081		
92748880008	**YAT-YGWA-20S**	EPA 9315	692081		
92748880009	**YAT-YGWA-47**	EPA 9315	692081		
92748880010	**YAT-YGWA-1I**	EPA 9315	692081		
92748880011	**YAT-YGWA-1D**	EPA 9315	692081		
92748880012	**YAT-YGWA-2I**	EPA 9315	692081		
92748880013	**YAT-UGRD-FB-1**	EPA 9315	692081		
92748880015	**YAT-YGWA-5D**	EPA 9315	692081		
92748880016	**YAT-YGWA-17S**	EPA 9315	692082		
92748880017	**YAT-YGWA-18I**	EPA 9315	692082		
92748880019	**YAT-UGRD-FD-1**	EPA 9315	692082		
92748880020	**YAT-UGRD-EB-2**	EPA 9315	692082		
92748880021	**YAT-UGRD-FB-2**	EPA 9315	692082		
92748880022	**YAT-YGWA-39**	EPA 9315	693372		
92748880023	**YAT-YGWA-40**	EPA 9315	693372		
92748880024	**YAT-YGWA-18S**	EPA 9315	693372		
92748880025	**YAT-UGRD-EB-1**	EPA 9315	693372		
92748880026	**YAT-UGRD-FD-2**	EPA 9315	693372		
92748880001	**YAT-YGWA-30I**	EPA 9320	691960		
92748880002	**YAT-YGWA-14S**	EPA 9320	691960		
92748880003	**YAT-YGWA-3I**	EPA 9320	691960		
92748880004	**YAT-YGWA-3D**	EPA 9320	691960		
92748880005	**YAT-YGWA-21I**	EPA 9320	691960		
92748880006	**YAT-YGWA-4I**	EPA 9320	691960		
92748880007	**YAT-YGWA-5I**	EPA 9320	691960		
92748880008	**YAT-YGWA-20S**	EPA 9320	691960		
92748880009	**YAT-YGWA-47**	EPA 9320	691960		
92748880010	**YAT-YGWA-1I**	EPA 9320	691960		
92748880011	**YAT-YGWA-1D**	EPA 9320	691960		
92748880012	**YAT-YGWA-2I**	EPA 9320	691960		
92748880013	**YAT-UGRD-FB-1**	EPA 9320	691960		
92748880015	**YAT-YGWA-5D**	EPA 9320	691960		
92748880016	**YAT-YGWA-17S**	EPA 9320	691960		
92748880017	**YAT-YGWA-18I**	EPA 9320	691960		
92748880019	**YAT-UGRD-FD-1**	EPA 9320	691962		
92748880020	**YAT-UGRD-EB-2**	EPA 9320	691962		
92748880021	**YAT-UGRD-FB-2**	EPA 9320	691962		
92748880022	**YAT-YGWA-39**	EPA 9320	691962		
92748880023	**YAT-YGWA-40**	EPA 9320	691962		
92748880024	**YAT-YGWA-18S**	EPA 9320	691962		
92748880025	**YAT-UGRD-EB-1**	EPA 9320	691962		

REPORT OF LABORATORY ANALYSIS

Pace Analytical Services, LLC
9800 Kincey Ave. Suite 100
Huntersville, NC 28078
(704)875-9092

QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YAT Pooled Upgradient-RADs
Pace Project No.: 92748880

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92748880026	**YAT-UGRD-FD-2**	EPA 9320	691962		
92748880001	**YAT-YGWA-30I**	Total Radium Calculation	696375		
92748880002	**YAT-YGWA-14S**	Total Radium Calculation	696375		
92748880003	**YAT-YGWA-3I**	Total Radium Calculation	696375		
92748880004	**YAT-YGWA-3D**	Total Radium Calculation	696375		
92748880005	**YAT-YGWA-21I**	Total Radium Calculation	696375		
92748880006	**YAT-YGWA-4I**	Total Radium Calculation	696375		
92748880007	**YAT-YGWA-5I**	Total Radium Calculation	696375		
92748880008	**YAT-YGWA-20S**	Total Radium Calculation	696375		
92748880009	**YAT-YGWA-47**	Total Radium Calculation	696375		
92748880010	**YAT-YGWA-1I**	Total Radium Calculation	696375		
92748880011	**YAT-YGWA-1D**	Total Radium Calculation	696375		
92748880012	**YAT-YGWA-2I**	Total Radium Calculation	696375		
92748880013	**YAT-UGRD-FB-1**	Total Radium Calculation	696375		
92748880015	**YAT-YGWA-5D**	Total Radium Calculation	696375		
92748880016	**YAT-YGWA-17S**	Total Radium Calculation	696366		
92748880017	**YAT-YGWA-18I**	Total Radium Calculation	696366		
92748880019	**YAT-UGRD-FD-1**	Total Radium Calculation	696366		
92748880020	**YAT-UGRD-EB-2**	Total Radium Calculation	696366		
92748880021	**YAT-UGRD-FB-2**	Total Radium Calculation	696366		
92748880022	**YAT-YGWA-39**	Total Radium Calculation	696376		
92748880023	**YAT-YGWA-40**	Total Radium Calculation	696376		
92748880024	**YAT-YGWA-18S**	Total Radium Calculation	696376		
92748880025	**YAT-UGRD-EB-1**	Total Radium Calculation	696376		
92748880026	**YAT-UGRD-FD-2**	Total Radium Calculation	696376		

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

WO# : 92748880

92748880

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (for Composite Start) Date	Collected (for Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-30I	WG	G	8/20/24	1737	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-14S	WG	G	8/20/24	1618	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-3I	WG	G	8/20/24	1430	—	—		5		X	X	X	X	See Remarks
* YAT-YGWA-30	WG	G	8/20/24	1302	—	—		5		X	X	X	X	See Remarks

Lab Use Only:
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) - KIM LAPSZYNSKI
Signature: (Arcadis) -

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time		Date/Time
Relinquished By/Company: (Signature)	8/21/24 0820	Received by/Company: (Signature)	8/21/24 0820
Relinquished by/Company: (Signature)	8/21/24 1020	Received by/Company: (Signature)	8/21/24 1020
Relinquished by/Company: (Signature)	8/21/24 1250	Received by/Company: (Signature)	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346 3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV; [X] EQUIS; [ ] Other________

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other________

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 | 3 | 2 | 1

Identify Container Preservative Type***: 2 | 1 | 1 | 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: **Bonnie Vang**; AcctNum / Client ID: ; Table #: ; Profile / Template: **16561**; Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320							Sample Comment	Preservation non conformance identified for sample
YAT-YGWA-47	WG	G						5		X	X	X	X							See Remarks	
YAT-YGWA-21I	WG	G	8/20/24	1640	—	—		5		X	X	X	X							See Remarks	
YAT-YGWA-4I	WG	G	8/20/24	1200	—	—		5		X	X	X	X							See Remarks	
YAT-YGWA-5I	WG	G	8/20/24	0959	—	—		5		X	X	X	X							See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X							See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X							See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X							See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X							See Remarks	
YAT-YGWA-20S	WG	G	8/20/24	1430	—	—		5		X	X	X	X							See Remarks	
																				See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - Perry Studebaker
Signature: (Arcadis) - Perry Studebaker

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
[signature] / Arcadis	8/21/24 0800	[signature] / Arcadis	8/21/24 0800	Tracking Number:
[signature] / Arcadis	8/21/24 1020	Ryan William / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Ryan William / Pace	8/21/24 1230	[signature] / Pace	~~8/21/24~~ 8/21/24 1230	[ ] FedEX [ ] UPS [ ] Other
				Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.846.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; Acct.Num / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-47	WG	G	8/20/24	1735	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Spoutz
Signature: (Arcadis)

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
	8/20/24 1830	Arcadis	8/20/24 1830
Relinquished by/Company: (Signature) Arcadis	8/21/24 1020	Received by/Company: (Signature) Pace	8/21/24 1020
Relinquished by/Company: (Signature) Pace	8/21/24 1230	Received by/Company: (Signature) Pace	8/21/24 1230
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

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ENV-FRM-CORO-0019_v01_082123 ®

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	tosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected:	[ ] AK [ ] PT [ ] MT [ ] CT [X] ET	County / State origin of sample(s):	Georgia
Data Deliverables:	[X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other	Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	DW PWSID # or WW Permit # as applicable:
		Date Results Requested:	Field Filtered (if applicable): [ ] Yes [X] No
			Analysis:

* Matrix Codes (insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD (SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G	8/20/24	1025	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G	8/20/24	1230	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G	8/20/24	1515	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks	

Lab Use Only:
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis): David Proud
Signature: (Arcadis):

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished By/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/20/24 1830		8/20/24 1830	
Relinquished By/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Delivered by: [ ] In-Person [ ] Courier
	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020	[ ] FedEX [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Ryan Williams / Pace	8/21/24 1230	MATW / PACE	8/21/24	Page: of
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	

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Pace* Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

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LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rsingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC62474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other:

Regulatory Program: (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other:
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non conformance identified for sample
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl, 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace*:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

	Date/Time		Date/Time	Tracking Number:
Relinquished by/Company: (Signature)	8/20/24 1830	Received by/Company: (Signature) Jessica Wood/Arcadis	8/20/24 1830	
Relinquished by/Company: (Signature) Jessica Wood/Arcadis	8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Relinquished by/Company: (Signature) Ryan Williams / Pace	8/21/24 1230	Received by/Company: (Signature) MW/Pace	8/21/24 1230	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT. Complete all relevant fields.

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for Instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.848.3817
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPCB2474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non conformance identified for sample:
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-5D	WG	G	8/20/24	0957	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-17S	WG	G	8/20/24	1245	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-18S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-18I	WG	G	8/20/24	1422	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks	
														See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/21/24 1020	Received by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/21/24 1020	Tracking Number:
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/21/24 1230	Received by/Company: (Signature) Mary Place	Date/Time: 8/21/24 1230	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123 ©

Pace ANALYTICAL SERVICES

DC#_Title: ENV-FRM-HUNT-0008 v08_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Comp

Project #: **WO#: 92748880**

PM: BV **Due Date: 09/12/24**

CLIENT: 92-GP-Yates

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Commercial ☐ ~~Pace~~ ☐ Other:

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ ~~N/A~~

Date/Initials Person Examining Contents: KM

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: 2.4 Correction Factor: Add/Subtract (°C) 0

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

Cooler Temp Corrected (°C): 2.4

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

Qualtrax ID: 69614

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

WO#: 92748880

*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 #

PM: BV Due Date: 09/12/24

CLIENT: 92-GP-Yates

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Client Southern Comp Profile/EZ (Circle one) 16561 Notes

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)	RP1Z	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG9A-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	RP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH4)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	header (Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

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

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

*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 #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client Southern Comp. Pro/Fle/EZ (Circle one) 16561 Notes

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit: (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
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pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G	8/20/24	1530	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G	8/20/24	—	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
	8/20/24 1830	Arcadis	8/20/24 1830	
Arcadis	8/21/24 1020	Ryan Williams / Pace	8/21/24 1020	Delivered by: [ ] In-Person [ ] Courier
Ryan Williams / Pace	8/21/24 1230	MRW/Pace	8/21/24 1230	[ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

Submitting a sample via this chain of custody constitutes acknowledgment and acceptance of the Pace® Terms and Conditions found at https://www.pacelabs.com/resource-library/resource/pace-terms-and-conditions/

ENV-FRM-CORO-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET		County / State origin of sample(s):	Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other		Regulatory Program (DW, RCRA, etc.) as applicable:	
		Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other	
		Date Results Requested:	
		DW PWSID # or WW Permit # as applicable:	
		Field Filtered (if applicable): [ ] Yes [ ] No	
		Analysis:	

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Biossay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment	Preservation non-conformance identified for sample
YAT-UGRD-EB-1	WG	G	8/20/24					5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G	8/20/24	1857				5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G	8/20/24	1030	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg.

Collected By:
Printed Name: (Arcadis) Jessica Ware
Signature: (Arcadis) Jessica Ware

Additional Instructions from Pace®:

Coolers: | Thermometer ID: | Correction Factor (°C): | Obs. Temp. (°C) | Corrected Temp. (°C)

Relinquished by/Company: (Signature) Jessica Ware / Arcadis	Date/Time: 8/21/24 1020	Received by/Company: (Signature) Ryan W.Illiams / Pace	Date/Time: 8/21/24 1020	Tracking Number:	
Relinquished by/Company: (Signature) Ryan Williams / Pace	Date/Time: 8/21/24 1230	Received by/Company: (Signature) Mony / Pace	Date/Time: 8/21/24 1230	Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:		
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of	

Pace

DC#_Title: ENV-FRM-HUNT-0008 v08_Sample Condition Upon Receipt

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☒ Kernersville ☐

Sample Condition Upon Receipt

Client Name: Southern Company

Project #:

Courier: ☐ Commercial ☒ Pace ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☐ Other:

Custody Seal Present? ☐ Yes ☐ No Seals Intact? ☐ Yes ☐ No ☒ N/A

Date/Initials Person Examining Contents:

Packing Material: ☒ Bubble Wrap ☐ Bubble Bags ☐ None ☐ Other

Biological Tissue Frozen? ☐ Yes ☐ No ☒ N/A

Thermometer: ☐ IR Gun ID: 214

Type of Ice: ☒ Wet ☐ Blue ☐ None

Cooler Temp: 1.8 Correction Factor: Add/Subtract (°C) 0

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

Cooler Temp Corrected (°C): 1.8

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

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

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

COMMENTS/SAMPLE DISCREPANCY

Field Data Required? ☐ Yes ☐ No

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Client Southern Comp Profile/EZ (Circle one) 16561 Notes

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)	BP1N	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)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG8V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	
CC																													
1		1	1		2		1																						
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pH Adjustment Log for Preserved Samples

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

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

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

92748EE0

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-A55MT-2024S2	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E-Mail:	
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient		Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____

Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1

Identify Container Preservative Type***: 2 1 1 2

Analysis Requested

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40ml vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample.
YAT-YGWA-30I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-14S	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-39	WG	G	8/21/24	1240	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-40	WG	G	8/21/24	1515	—	—		5		X	X	X	X	See Remarks	
YAT-YGWA-1I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-1D	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-2I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-3I	WG	G						5		X	X	X	X	See Remarks	
YAT-YGWA-3D	WG	G						5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis) David Prouty

Additional Instructions from Pace®:

# Coolers:	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Tracking Number:
David Prouty / Arcadis	8/22/24 0925	Ryan W. Ilm / Pace	8/22/24 0925	
Ryan W. Ilm / Pace	8/22/24 1215	Chase Hunter	8/22/24 1215	Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:	Page: of

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ENV-FRM-CORQ-0019_v01_082123

Pace® Location Requested (City/State):
Pace Analytical Charlotte
9800 Kincey Ave. Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name:	Southern Company	Contact/Report To:	Trey Singleton
Street Address:	241 Ralph McGill Blvd, Atlanta, GA 30308	Phone #:	205.346.3317
		E-Mail:	rosingle@southernco.com
		Cc E-Mail:	Arcadis contacts
Customer Project #:	Task No. YAT-CCR-ASSMT-202452	Invoice To:	
Project Name:	Georgia Power Yates	Invoice E Mail:	
Site Collection Info/Facility ID (as applicable):	YAT Pooled Upgradient	Purchase Order # (if applicable):	GPC82474-0002
		Quote #:	

Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET

County / State origin of sample(s): Georgia

Data Deliverables:
[X] Level II [ ] Level III [ ] Level IV
[X] EQUIS
[ ] Other_____

Regulatory Program (DW, RCRA, etc.) as applicable:

Rush (Pre-approval required):
[ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other_____
Date Results Requested:

DW PWSID # or WW Permit # as applicable:

Field Filtered (if applicable): [ ] Yes [X] No

Analysis:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW),Sediment (SED), Sludge (SL), Caulk

Specify Container Size **: 3 3 2 1
Identify Container Preservative Type***: 2 1 1 2
Analysis Requested

** Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other

*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only
Proj. Mgr: Bonnie Vang
AcctNum / Client ID:
Table #:
Profile / Template: 16561
Prelog / Bottle Ord. ID:

Preservation non-conformance identified for sample.

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Collected (or Composite Start) Time	Composite End Date	Composite End Time	Res. Cl2	Number & Type of Containers Plastic	Number & Type of Containers Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/8320	Sample Comment
YAT-YGWA-47	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-21I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-4I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-5D	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-17S	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-18S	WG	G	8/21/24	0945	—	—		5		X	X	X	X	See Remarks
YAT-YGWA-18I	WG	G						5		X	X	X	X	See Remarks
YAT-YGWA-20S	WG	G						5		X	X	X	X	See Remarks
														See Remarks

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb,Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) David Prouty
Signature: (Arcadis)

Additional Instructions from Pace®:

Coolers: Thermometer ID: Correction Factor (°C): Obs. Temp. (°C) Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Arcadis	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925
Ryan Williams / Pace	8/22/24 1215	Carla Hunter	8/22/24 1245
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:

Tracking Number:

Delivered by: [ ] In-Person [ ] Courier [ ] FedEx [ ] UPS [ ] Other

Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace

Pace® Location Requested (City/State): Pace Analytical Charlotte 9800 Kincey Ave, Suite 100, Huntersville, NC 28078

CHAIN-OF-CUSTODY Analytical Request Document

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

LAB USE ONLY- Affix Workorder/Login Label Here

Scan QR Code for instructions

Company Name: Southern Company
Street Address: 241 Ralph McGill Blvd, Atlanta, GA 30308
Contact/Report To: Trey Singleton
Phone #: 205.346.3317
E-Mail: rosingle@southernco.com
Cc E-Mail: Arcadis contacts
Customer Project #: Task No. YAT-CCR-ASSMT-202452
Project Name: Georgia Power Yates
Invoice To:
Invoice E-Mail:
Site Collection Info/Facility ID (as applicable): YAT Pooled Upgradient
Purchase Order # (if applicable): GPC82474-0002
Quote #:
Time Zone Collected: [ ] AK [ ] PT [ ] MT [ ] CT [X] ET
County / State origin of sample(s): Georgia
Data Deliverables: [X] Level II [ ] Level III [ ] Level IV [X] EQUIS [ ] Other
Regulatory Program (DW, RCRA, etc.) as applicable:
Rush (Pre-approval required): [ ] 2 Day [ ] 3 day [ ] 5 day [ ] Other
Date Results Requested:
DW PWSID # or WW Permit # as applicable:
Field Filtered (if applicable): [ ] Yes [X] No
Analysis:

Specify Container Size **: 3, 3, 2, 1
Identify Container Preservative Type***: 2, 1, 1, 2

**Container Size: (1) 1L, (2) 500mL, (3) 250mL, (4) 125mL, (5) 100mL, (6) 40mL vial, (7) EnCore, (8) TerraCore, (9) Other
*** Preservative Types: (1) None, (2) HNO3, (3) H2SO4, (4) HCl, (5) NaOH, (6) Zn Acetate, (7) NaHSO4, (8) Sod. Thiosulfate, (9) Ascorbic Acid, (10) MeOH, (11) Other

Lab Use Only: Proj. Mgr: Bonnie Vang; AcctNum / Client ID:; Table #:; Profile / Template: 16561; Prelog / Bottle Ord. ID:

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Waste Water (WW), Product (P), Soil/Solid (SS), Oil (OL), Wipe (WP), Tissue (TS), Bioassay (B), Vapor (V), Other (OT), Surface Water (SW), Sediment (SED), Sludge (SL), Caulk

Customer Sample ID	Matrix *	Comp / Grab	Collected (or Composite Start) Date	Time	Composite End Date	Time	Res. CL2	Plastic	Glass	App III/IV Metals	Cl, F, SO4 (EPA 300.0)	TDS (SM 2540C)	RAD SW846 9315/9320	Sample Comment	Preservation non-conformance identified for sample.
YAT-UGRD-EB-1	WG	G	8/21/24	1525	—	—		5		X	X	X	X	See Remarks	
YAT-UGRD-FB-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-EB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FB-2	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-1	WG	G						5		X	X	X	X	See Remarks	
YAT-UGRD-FD-2	WG	G	8/21/24	—	—	—		5		X	X	X	X	See Remarks	

Customer Remarks / Special Conditions / Possible Hazards:
App III Metals: 6020B: B; 6010D: Ca
App IV: Metals 6020B: Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Mo, Se, Tl; 7040A: Hg

Collected By:
Printed Name: (Arcadis) - David Prouty
Signature: (Arcadis) - [signature]

Additional Instructions from Pace®:

# Coolers	Thermometer ID:	Correction Factor (°C):	Obs. Temp. (°C)	Corrected Temp. (°C)

Relinquished by/Company: (Signature)	Date/Time:	Received by/Company: (Signature)	Date/Time:
[signature] / Arcadis	8/22/24 0925	Ryan Williams / Pace	8/22/24 0925
Ryan Williams / Pace	8/22/24 1215	[signature]	8/22/24 1215

Tracking Number:
Delivered by: [ ] In-Person [ ] Courier [ ] FedEX [ ] UPS [ ] Other
Page: of

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ENV-FRM-CORQ-0019_v01_082123 ©

Pace

DOC#_Title: ENV-FRM-[illegible]

Effective Date: 05/24/2024

Laboratory receiving samples:
Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☑ Kernersville ☐

Sample Condition Upon Receipt

Client Name: GA Power

Project #:

Courier: ☐ Commercial ☐ FedEx ☑ Pace ☐ UPS ☐ USPS ☐ Other:____ ☐ Client

Custody Seal Present? ☐ Yes ☑ No Seals Intact? ☐ Yes ☐ No ☑ N/A

Date/Initials Person Examining Contents: 8/22/24 COH

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: 2.2 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): 2.2

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

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

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

Field Data Required? ☐ Yes ☐ No

COMMENTS/SAMPLE DISCREPANCY

Lot ID of split containers:

CLIENT NOTIFICATION/RESOLUTION

Person contacted: Date/Time:

Project Manager SCURF Review: Date:

Project Manager SRF Review: Date:

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg
**Bottom half of box is to list number of bottles
***Check all unpreserved Nitrates for chlorine

Project #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client_____ Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG9V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
10		1	1		2		1																							
11		1	1		2		1																							
12		1	1		2		1																							

pH Adjustment Log for Preserved Samples

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

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

Pace

DC#_Title: ENV-FRM-HUN1-0083 v05_Sample Condition Upon Receipt

Effective Date: 05/24/2024

*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 #

Laboratory Receiving Location: Asheville ☐ Eden ☐ Greenwood ☐ Huntersville ☐ Raleigh ☐ Mechanicsville ☐ Atlanta ☐ Kernersville ☐

Client:_____ Profile/EZ (Circle one)_____ Notes_____

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)	BP1N	BP4S-125 mL Plastic H2SO4 (pH < 2) (Cl-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Aceiate & NaOH (>9)	BP4B-125 mL Plastic NaOH (pH > 12) (Cl-)	WGFU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (Cl-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (Cl-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	DG94-40 mL Amber NH4Cl (N/A)(Cl-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unpreserved (N/A)	DG8V-40 mL VOA H3PO4 (N/A)	KP7U-50 mL Plastic Unpreserved (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A – lab)	SP2T-250 mL Sterile Plastic (N/A – lab)		BP3R-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG0U-100 mL Amber Unpreserved (N/A) (Cl-)	VSGU-20 mL Scintillation vials (N/A)	DG9U-40 mL Amber Unpreserved vials (N/A)
CC																														
1		1	1		2		1																							
2		1	1		2		1																							
3		1	1		2		1																							
4		1	1		2		1																							
5		1	1		2		1																							
6		1	1		2		1																							
7		1	1		2		1																							
8		1	1		2		1																							
9		1	1		2		1																							
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.

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	JJS1
Date:	9/3/2024
Worklist:	80992
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3369428
MB concentration:	0.161
M/B 2 Sigma CSU:	0.318
MB MDC:	0.699
MB Numerical Performance Indicator:	0.99
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS80992	LCSD80992
Count Date:	9/11/2024	9/11/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.330	35.330
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.819	0.820
Target Conc. (pCi/L, g, F):	4.316	4.310
Uncertainty (Calculated):	0.211	0.211
Result (pCi/L, g, F):	2.660	3.947
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.667	0.892
Numerical Performance Indicator:	-4.64	-0.78
Percent Recovery:	61.62%	91.57%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS80992	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD80992	
Sample Result (pCi/L, g, F):	2.660	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.667	
Sample Duplicate Result (pCi/L, g, F):	3.947	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.892	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	-2.266	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	39.10%	
Duplicate Status vs Numerical Indicator:	Warning	
Duplicate Status vs RPD:	Fail***	
% RPD Limit:	36%	

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

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

Comments:

ZR 9·12·24

VAL 9/12/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-228
Analyst:	ZPC
Date:	9/5/2024
Worklist:	80993
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3369429
MB concentration:	0.325
M/B 2 Sigma CSU:	0.297
MB MDC:	0.601
MB Numerical Performance Indicator:	2.14
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS80993	**LCSD80993**
Count Date:	9/11/2024	9/11/2024
Spike I.D.:	23-043	23-043
Decay Corrected Spike Concentration (pCi/mL):	35.330	35.330
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.816	0.815
Target Conc. (pCi/L, g, F):	4.330	4.333
Uncertainty (Calculated):	0.212	0.212
Result (pCi/L, g, F):	4.124	3.468
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.955	0.836
Numerical Performance Indicator:	-0.41	-1.97
Percent Recovery:	95.23%	80.05%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	60%	60%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS80993	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.	LCSD80993	
Sample Result (pCi/L, g, F):	4.124	
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.955	
Sample Duplicate Result (pCi/L, g, F):	3.468	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.836	
Are sample and/or duplicate results below RL?	NO	
Duplicate Numerical Performance Indicator:	1.012	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	17.32%	
Duplicate Status vs Numerical Indicator:	Pass	
Duplicate Status vs RPD:	Pass	
% RPD Limit:	36%	

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

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

Comments:

ZPC 9.12.24

VAL 9/12/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/6/2024
Worklist:	81001
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3370042
MB concentration:	-0.019
M/B 2 Sigma CSU:	0.080
MB MDC:	0.237
MB Numerical Performance Indicator:	-0.46
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81001	**LCSD81001**
Count Date:	9/16/2024	9/16/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.504	0.508
Target Conc. (pCi/L, g, F):	4.969	4.929
Uncertainty (Calculated):	0.234	0.232
Result (pCi/L, g, F):	4.764	4.413
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.852	0.796
Numerical Performance Indicator:	-0.45	-1.22
Percent Recovery:	95.87%	89.54%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS81001	92748880015
Duplicate Sample I.D.	LCSD81001	92748880015DUP
Sample Result (pCi/L, g, F):	4.764	2.289
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.852	0.484
Sample Duplicate Result (pCi/L, g, F):	4.413	2.002
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.796	0.428
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.589	0.868
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	6.83%	13.34%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

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

Comments:

ET 9-16-24

LAM 9/16/24

Quality Control Sample Performance Assessment

Pace Analytical™
www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/9/2024
Worklist:	81002
Matrix:	WT

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3370048
MB concentration:	0.081
M/B 2 Sigma CSU:	0.144
MB MDC:	0.327
MB Numerical Performance Indicator:	1.11
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81002	**LCSD81002**
Count Date:	9/16/2024	9/16/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.506	0.503
Target Conc. (pCi/L, g, F):	4.943	4.974
Uncertainty (Calculated):	0.232	0.234
Result (pCi/L, g, F):	5.073	4.860
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.914	0.921
Numerical Performance Indicator:	0.27	-0.23
Percent Recovery:	102.61%	97.71%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS81002	92749185006
Duplicate Sample I.D.	LCSD81002	92749185006DUP
Sample Result (pCi/L, g, F):	5.073	0.163
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.914	0.129
Sample Duplicate Result (pCi/L, g, F):	4.860	0.126
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.921	0.130
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	0.321	0.399
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	4.89%	25.75%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

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

Comments:

ET 9-16-24

vAm 9/16/24

Quality Control Sample Performance Assessment

Pace Analytical™ www.pacelabs.com

Test:	Ra-226
Analyst:	SLC
Date:	9/11/2024
Worklist:	81119
Matrix:	W

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	3376218
MB concentration:	-0.049
M/B 2 Sigma CSU:	0.141
MB MDC:	0.426
MB Numerical Performance Indicator:	-0.68
MB Status vs Numerical Indicator:	Pass
MB Status vs. MDC:	N/A

Laboratory Control Sample Assessment	LCSD (Y or N)?	Y
	LCS81119	**LCSD81119**
Count Date:	9/13/2024	9/13/2024
Spike I.D.:	23-014	23-014
Decay Corrected Spike Concentration (pCi/mL):	25.020	25.020
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.508	0.502
Target Conc. (pCi/L, g, F):	4.928	4.983
Uncertainty (Calculated):	0.232	0.234
Result (pCi/L, g, F):	4.491	5.297
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.924	1.057
Numerical Performance Indicator:	-0.90	0.57
Percent Recovery:	91.14%	106.30%
Status vs Numerical Indicator:	Pass	Pass
Status vs Recovery:	N/A	N/A
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

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

Duplicate Sample Assessment		
Sample I.D.:	LCS81119	92748210041
Duplicate Sample I.D.	LCSD81119	92748210041DUP
Sample Result (pCi/L, g, F):	4.491	0.035
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.924	0.157
Sample Duplicate Result (pCi/L, g, F):	5.297	0.033
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.057	0.161
Are sample and/or duplicate results below RL?	NO	See Below ##
Duplicate Numerical Performance Indicator:	-1.125	0.010
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.36%	3.45%
Duplicate Status vs Numerical Indicator:	Pass	Pass
Duplicate Status vs RPD:	N/A	N/A
% RPD Limit:	25%	25%

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

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

Comments:

ET 9-16-24

LAM 9/16/24

Appendix D

Statistical Analysis (February and August 2024)

February 2024

GROUNDWATER STATS CONSULTING

August 30, 2024

Southern Company Services
Attn: Ms. Lauren Hartley
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)
February 2024 Statistical Analysis

Dear Ms. Hartley,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the February 2024 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-2. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47
  - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S, and YGWA-30I
  - **Gypsum Landfill:** GWA-2
  - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
- **Downgradient wells:** YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IB

Note that well YGWC-29IB was installed as a replacement well for YGWC-29IA and was first sampled in February 2024. Data from downgradient wells YGWC-29IA and YGWC-29IB were combined and are plotted under well YGWC-29IB. In the current analysis, reported observations from the February 2024 sample event for Appendix III constituents at all downgradient wells are compared to interwell prediction limits for Appendix III constituents.

When a minimum of 8 samples are collected from new well YGWC-29IB, the Mann-Whitney test of medians will be used to evaluate whether the medians are similar to those from previously installed well YGWC-29IA. When the medians are statistically different for Appendix IV constituents at the 99% confidence level, the historical record will be truncated so that only data from new well YGWC-29IB in order to be more representative of present-day groundwater quality, and will be evaluated with confidence intervals compared to respective Groundwater Protection Standards.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician of Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports. During this event, elevated reporting limits occurred for beryllium, boron, and lithium due to higher dilution factors at some wells; therefore, current reporting limits of 0.0005 mg/L, 0.04 mg/L, and 0.03 mg/L were substituted across all wells for each respective constituent.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the background screening performed in 2017 and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as

applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Update – Appendix III and IV Constituents - Conducted in March 2020

Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were

recommended. During the March 2020 1st semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at upgradient wells for Appendix III and all wells for Appendix IV parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, a couple outliers were identified. While this is not the case in the present data set, when the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values may be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit. A summary of outlier results follows this letter (Figure C).

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters to identify statistically significant increasing or decreasing. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – February 2024

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed for potential outliers during this analysis. During this analysis, the February 2024 reported measurement in upgradient well YGWA-5D was flagged for TDS in order to maintain a statistical limit that is more conservative from a regulatory perspective and representative of present-day groundwater quality conditions. Pooled upgradient well data for all Appendix III constituents did not follow a normal or transformed-normal distribution; therefore, nonparametric prediction limits were constructed. A summary of flagged outliers follows this report (Figure C).

Interwell Prediction Limits

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through February 2024 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an

individual constituent. The February 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IB
- Chloride: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, and YGWC-28S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

- Boron: YGWA-39 (upgradient) and YGWC-26S
- Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, YGWA-39, and YGWA-40 (all upgradient)

Decreasing:

- Boron: YGWA-40 (upgradient), YGWC-26I, and YGWC-27S
- Chloride: YGWA-3D, YGWA-47, YGWA-5D (all upgradient), YGWC-26I, YGWC-26S, YGWC-27S, and YGWC-28S

A complete list of trend test results and all statistically significant increasing and decreasing trends may be found following this letter in the Trend Test Summary Table.

Statistical Analysis of Appendix IV Parameters – February 2024

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. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were two orders of magnitude higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through February 2024 for Appendix IV constituents (Figure F). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, 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 constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

Groundwater Protection Standards

The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a). On July 30, 2018, US EPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Effective on February 22, 2022, Georgia EPD incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a). In accordance with the updated Rules, the GWPS is:

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, Federal and State CCR Rules specify levels for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

Following Georgia EPD Rule requirements and the Federal CCR requirements, GWPS were established for statistical comparison of Appendix IV constituents for this sample event (Figure G).

Confidence Intervals

To complete the statistical comparison to GWPS, confidence intervals using data through February 2024 were constructed for each of the Appendix IV constituents in each downgradient well with 4 or more samples (Figure H). As mentioned above, confidence intervals were not required for downgradient well/constituent pairs containing 100% non-detects since 2016.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

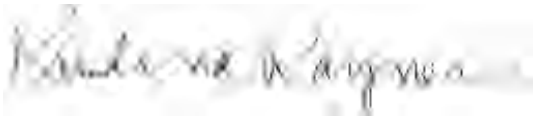
Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable. Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Since no exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager



Kristina L. Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 5/2/2024 10:06 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Antimony (mg/L)
YGWC-28S

Beryllium (mg/L)
YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29IB

Cadmium (mg/L)
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L)
YGWC-26I

Lead (mg/L)
YGWC-27I, YGWC-28I

Lithium (mg/L)
YGWC-26S

Molybdenum (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L)
YGWC-27I, YGWC-27S, YGWC-29IB

Thallium (mg/L)
YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:57 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/22/2024	0.77	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/22/2024	0.78	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/21/2024	1.8	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/21/2024	0.91	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/21/2024	1.6	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/21/2024	2.3	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-29IB	0.16	n/a	2/22/2024	1.1	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Chloride (mg/L)	YGWC-26I	12.2	n/a	2/22/2024	16	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12.2	n/a	2/22/2024	14.9	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12.2	n/a	2/21/2024	12.5	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12.2	n/a	2/21/2024	12.6	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12.2	n/a	2/21/2024	17.5	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:57 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**0.16**	**n/a**	**2/22/2024**	**0.77**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**2/22/2024**	**0.78**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**2/21/2024**	**1.8**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**2/21/2024**	**0.91**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**2/21/2024**	**1.6**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**2/21/2024**	**2.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**2/22/2024**	**1.1**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	2/22/2024	16.7	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/22/2024	11	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/21/2024	27.7	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/21/2024	20.4	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/21/2024	27.8	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/21/2024	31	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29IB	37	n/a	2/22/2024	11.5	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**12.2**	**n/a**	**2/22/2024**	**16**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.2**	**n/a**	**2/22/2024**	**14.9**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**12.2**	**n/a**	**2/21/2024**	**12.5**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**12.2**	**n/a**	**2/21/2024**	**12.6**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-28I	12.2	n/a	2/21/2024	10.4	No	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-28S**	**12.2**	**n/a**	**2/21/2024**	**17.5**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29IB	12.2	n/a	2/22/2024	10.5	No	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/22/2024	0.057J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/22/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/21/2024	0.082J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/21/2024	0.11	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/21/2024	0.096J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/21/2024	0.15	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29IB	0.68	n/a	2/22/2024	0.075J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/22/2024	5.92	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/22/2024	5.58	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/21/2024	6.43	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/21/2024	6.26	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/21/2024	6.43	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/21/2024	6.49	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29IB	8.39	4.4	2/22/2024	6.01	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/22/2024	80.7	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/22/2024	89.3	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/21/2024	3.8	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/21/2024	13	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/21/2024	8.5	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/21/2024	3.9	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29IB	160	n/a	2/22/2024	26.9	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	319	n/a	2/22/2024	215	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	319	n/a	2/22/2024	188	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	319	n/a	2/21/2024	194	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	319	n/a	2/21/2024	149	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	319	n/a	2/21/2024	213	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	319	n/a	2/21/2024	235	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29IB	319	n/a	2/22/2024	146	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:59 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWC-26I	-0.03677	-123	-92	Yes	22	0	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.01731	102	92	Yes	22	0	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.06015	-111	-92	Yes	22	0	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01889	102	74	Yes	19	5.263	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01292	-120	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0365	-113	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3595	-121	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.3619	-106	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.464	-179	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.2879	-93	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.3666	-125	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.7862	183	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.09154	113	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.09892	145	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6099	76	74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2696	101	74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.5923	-176	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:59 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0002056	-33	-92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001069	59	92	No	22	40.91	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-22	-92	No	22	68.18	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	6	92	No	22	81.82	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-10	-92	No	22	86.36	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	24	92	No	22	63.64	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-11	-92	No	22	90.91	n/a	0.01	NP
Boron (mg/L)	**YGWC-26I**	**-0.03677**	**-123**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01731**	**102**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-27I	0.03489	49	92	No	22	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-27S**	**-0.06015**	**-111**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-28I	-0.08449	-76	-92	No	22	0	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	-0.0293	-40	-92	No	22	0	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0003761	-34	-74	No	19	5.263	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0005659	73	92	No	22	18.18	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-10	-92	No	22	81.82	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0008073	63	92	No	22	27.27	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-3	-92	No	22	90.91	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-21	-92	No	22	59.09	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01889**	**102**	**74**	**Yes**	**19**	**5.263**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01292**	**-120**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	19	92	No	22	72.73	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.000669	82	92	No	22	22.73	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-4	-92	No	22	68.18	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWC-29IB	-0.01629	-63	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.09834	63	92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-38	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01344	-44	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.01682	-50	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.02485	-61	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.0365**	**-113**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-3I (bg)	-0.01926	-86	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWC-26I**	**-0.3595**	**-121**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.3619**	**-106**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-27I	-0.06268	-61	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWC-27S**	**-1.464**	**-179**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28S**	**-0.2879**	**-93**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3666**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.7862**	**183**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.09154**	**113**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.08677	60	92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.09892**	**145**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.06772	-59	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-39 (bg)**	**0.6099**	**76**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2696**	**101**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.06138	75	92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5923**	**-176**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.01601	22	92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits Summary Table

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:03 AM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	429	n/a	n/a	87.88	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	477	n/a	n/a	75.26	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	n/a	477	n/a	n/a	2.306	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	n/a	461	n/a	n/a	80.04	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	n/a	461	n/a	n/a	95.01	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	429	n/a	n/a	81.59	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	471	n/a	n/a	68.79	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	456	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	476	n/a	n/a	63.45	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	431	n/a	n/a	87.24	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	456	n/a	n/a	27.19	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	n/a	385	n/a	n/a	89.35	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	n/a	420	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	459	n/a	n/a	92.81	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	395	n/a	n/a	97.47	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 2 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	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 Summary Table - All Results (No Significant)

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	No	21	0.002672	0.0008276	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	21	0.002871	0.0004064	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.0014	0.006	No	21	0.002797	0.0006641	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	21	0.002871	0.0005892	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-28I	0.003	0.0023	0.006	No	21	0.002967	0.0001528	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29IB	0.003	0.0013	0.006	No	21	0.002919	0.000371	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	25	0.004808	0.000667	92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	25	0.004816	0.000653	92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0009	0.01	No	25	0.003578	0.002042	64	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	25	0.004876	0.00062	96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	25	0.004884	0.00058	96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00075	0.01	No	25	0.003588	0.002038	64	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29IB	0.005	0.0033	0.01	No	25	0.004932	0.00034	96	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06523	0.06157	2	No	25	0.0634	0.003673	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.0283	0.02609	2	No	25	0.0272	0.002211	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07395	0.0664	2	No	25	0.07018	0.007568	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27S	0.1001	0.08167	2	No	25	0.08901	0.02093	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08777	0.0788	2	No	25	0.08328	0.009001	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2199	0.1984	2	No	25	0.2052	0.03448	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29IB	0.0781	0.057	2	No	25	0.07435	0.03089	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0001278	0.00009104	0.004	No	23	0.0002001	0.0001474	17.39	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27I	0.0002007	0.0001403	0.004	No	23	0.0001705	0.00005775	13.04	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	23	0.0004642	0.0001189	91.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	23	0.0002774	0.0001781	21.74	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	23	0.0004991	0.00000417	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29IB	0.00028	0.00018	0.005	No	23	0.0003396	0.0003656	13.04	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.005	0.0008	0.1	No	23	0.003671	0.002046	65.22	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.005	0.0012	0.1	No	23	0.003	0.00182	34.78	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	23	0.005304	0.00146	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	No	23	0.004715	0.002727	73.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	23	0.004409	0.00156	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0034	0.1	No	23	0.004347	0.001548	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29IB	0.005	0.0005	0.1	No	23	0.004804	0.0009383	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002433	0.001813	0.035	No	25	0.002123	0.0006217	4	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01376	0.004019	0.035	No	25	0.01616	0.02373	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.002404	0.002041	0.035	No	25	0.002196	0.0003953	4	None	x^2	0.01	Param.
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	25	0.004817	0.000916	96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0011	0.00085	0.035	No	25	0.001077	0.0004546	8	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29IB	0.005	0.0027	0.035	No	25	0.004126	0.001906	68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	0.9944	0.5008	6.92	No	24	0.7476	0.4837	4.167	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8032	0.5276	6.92	No	25	0.6654	0.2765	4	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.746	2.625	6.92	No	25	3.186	1.125	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.9619	0.6006	6.92	No	25	0.7813	0.3624	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.7995	0.4593	6.92	No	25	0.6294	0.3413	4	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.8999	0.543	6.92	No	25	0.7214	0.358	4	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29IB	1.065	0.6817	6.92	No	25	0.8731	0.384	4	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	26	0.08269	0.01978	38.46	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	No	26	0.1219	0.08942	65.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.081	4	No	26	0.1829	0.1128	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.1594	0.09053	4	No	26	0.1505	0.09453	15.38	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.29	0.078	4	No	26	0.159	0.1012	19.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2349	0.1581	4	No	26	0.2023	0.08725	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-29IB	0.17	0.059	4	No	26	0.1384	0.1037	26.92	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	21	0.00091	0.0002843	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.0001	0.015	No	21	0.0007786	0.000406	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00072	0.015	No	21	0.0008284	0.0003329	71.43	None	No	0.01	NP (NDs)

Confidence Intervals Summary Table - All Results (No Significant)

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-28S	0.001	0.000075	0.015	No	21	0.0007769	0.0004091	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29IB	0.001	0.00016	0.015	No	21	0.0008724	0.0003206	85.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007374	0.006746	0.04	No	25	0.00706	0.0006305	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009528	0.007614	0.04	No	25	0.008648	0.002002	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	25	0.02768	0.008015	92	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007012	0.006532	0.04	No	25	0.006772	0.0004818	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	25	0.02901	0.00494	96	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29IB	0.0066	0.0053	0.04	No	25	0.00678	0.002629	4	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	19	0.0001843	0.00004698	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	19	0.000185	0.00004502	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	19	0.0001842	0.00004748	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	No	19	0.0001832	0.00004876	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	19	0.000192	0.00003487	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	19	0.0001922	0.00003395	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29IB	0.0002	0.000047	0.002	No	19	0.0001835	0.00004952	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	No	25	0.00502	0.004187	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	25	0.004408	0.004283	36	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00082	0.1	No	25	0.007039	0.004405	68	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29IB	0.01	0.00099	0.1	No	25	0.009273	0.002517	92	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.003234	0.002153	0.05	No	23	0.002843	0.001158	8.696	None	ln(x)	0.01	Param.
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	23	0.004317	0.001533	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	23	0.004835	0.0007924	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	23	0.004826	0.0008341	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	19	0.0009006	0.0002976	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.00011	0.002	No	19	0.0007174	0.0004274	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-29IB	0.001	0.00021	0.002	No	19	0.0009584	0.0001812	94.74	None	No	0.01	NP (NDs)

FIGURE A.

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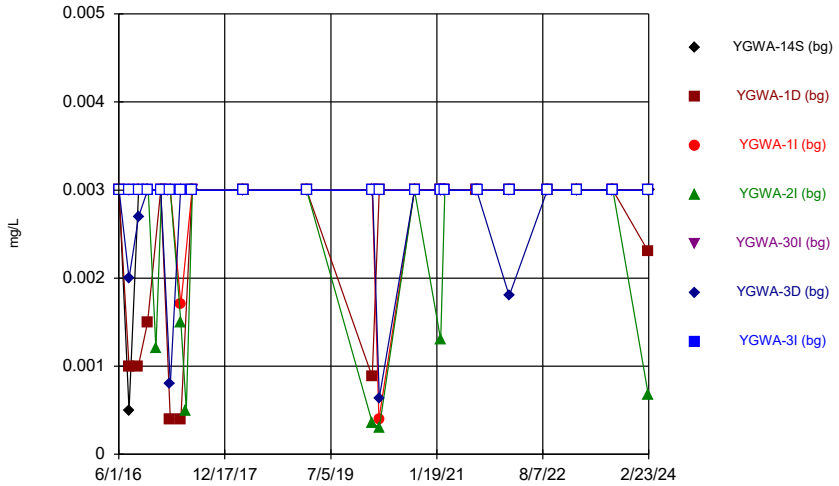
Time Series



Constituent: Antimony Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

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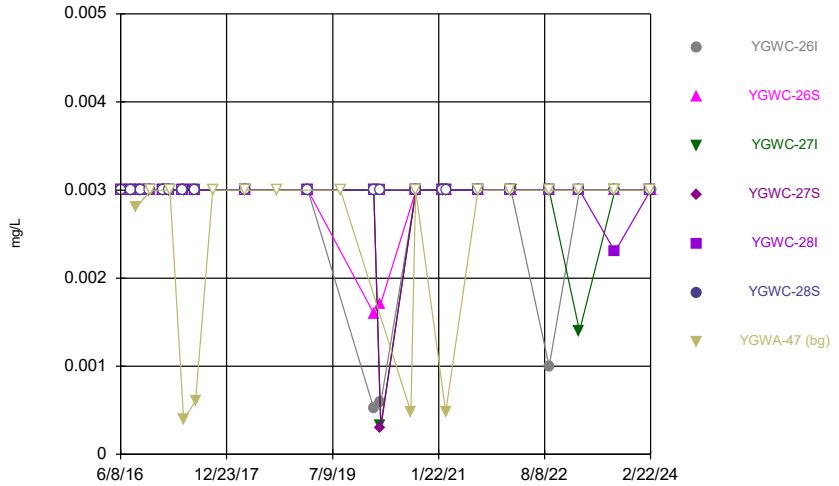

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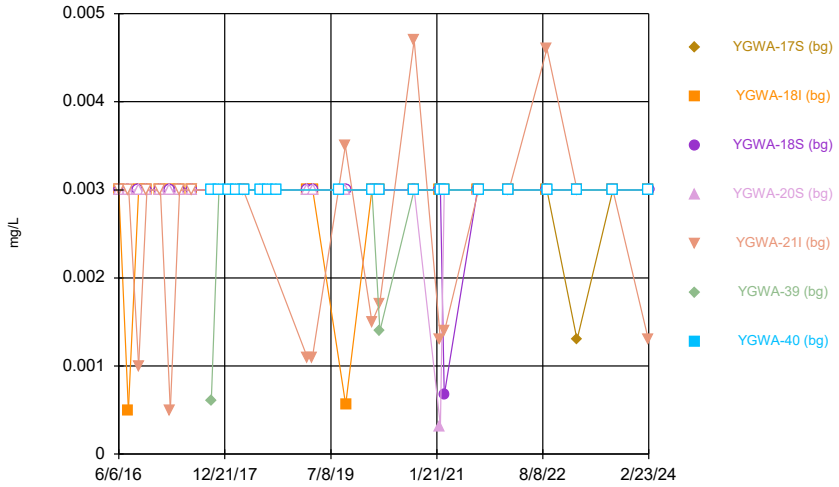

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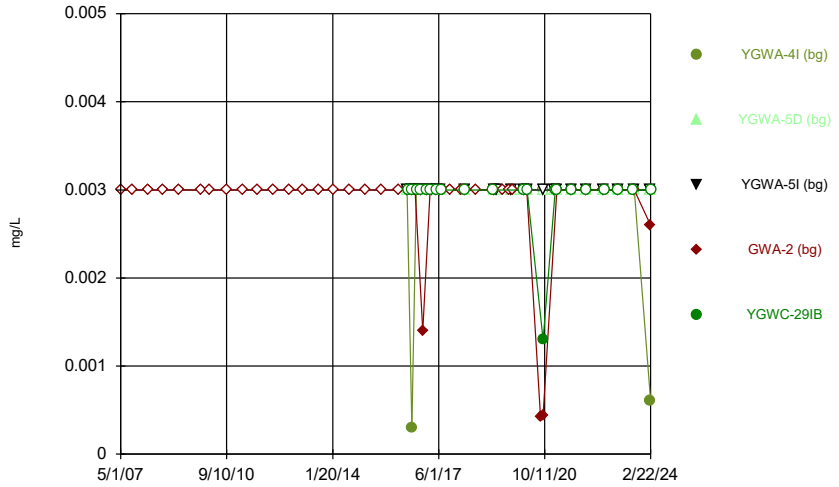

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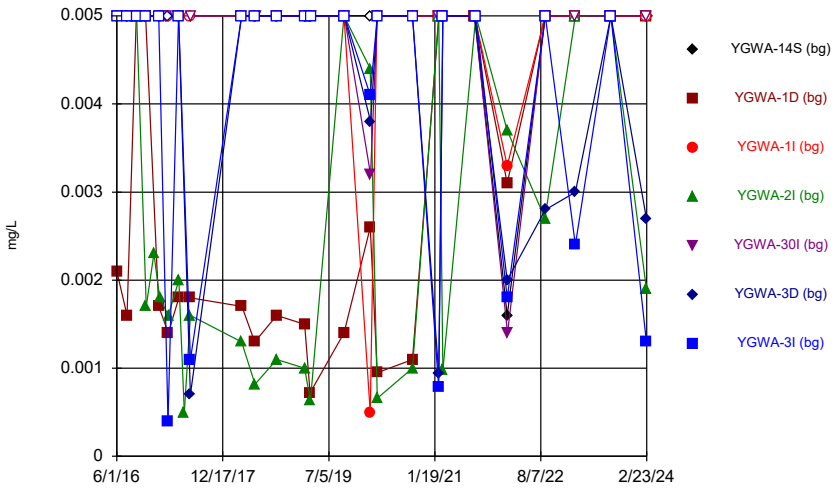

Constituent: Arsenic Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

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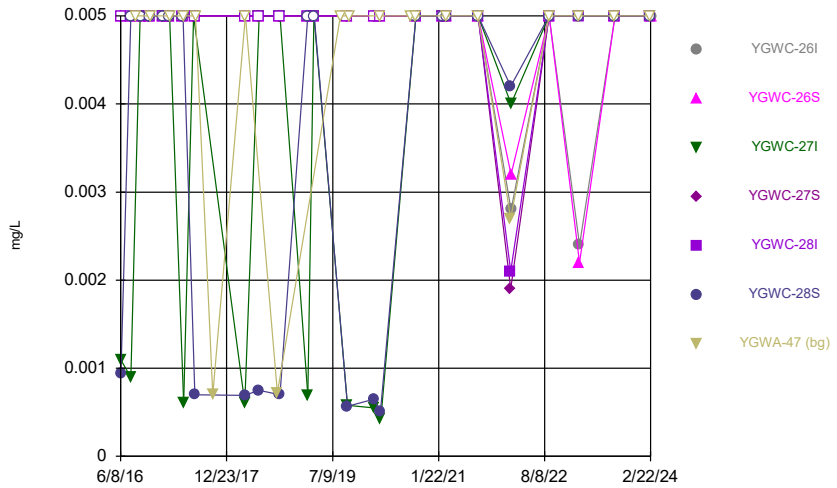
Time Series



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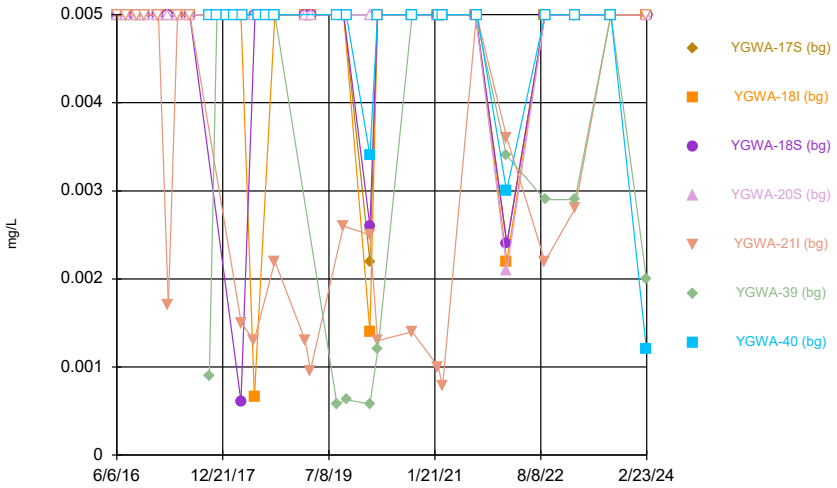

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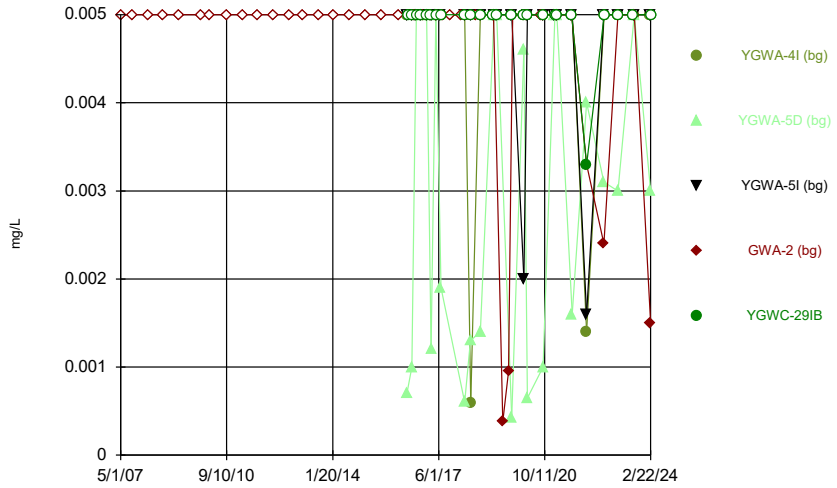

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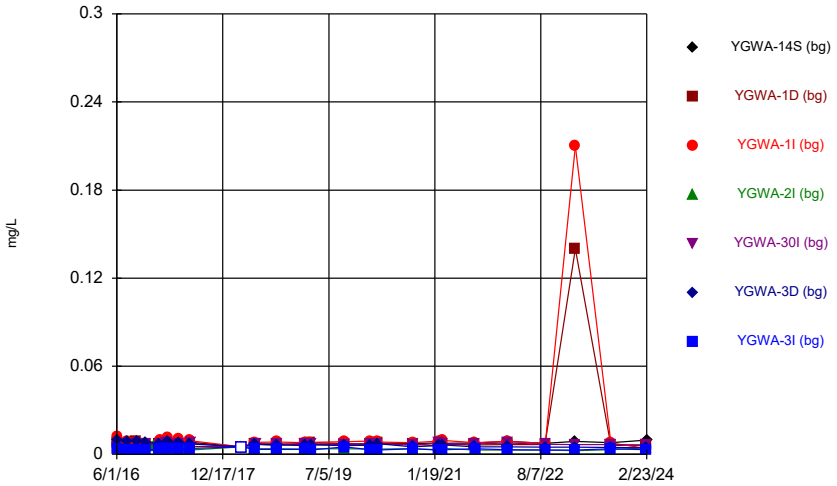

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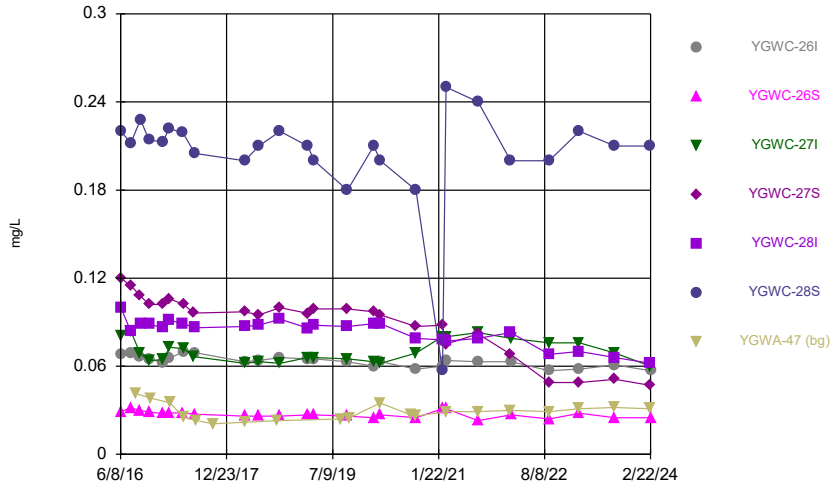
Time Series



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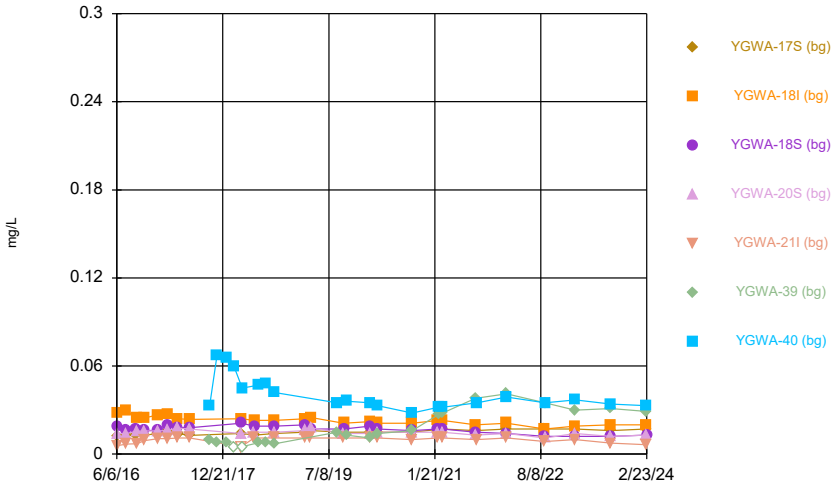

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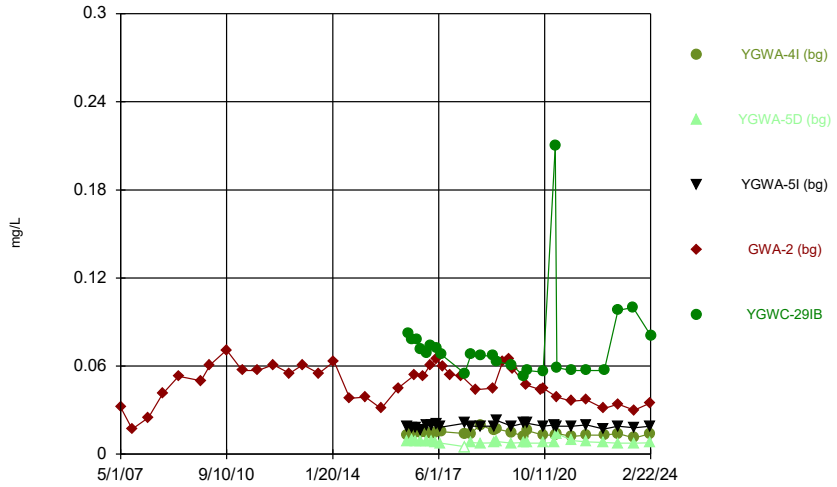

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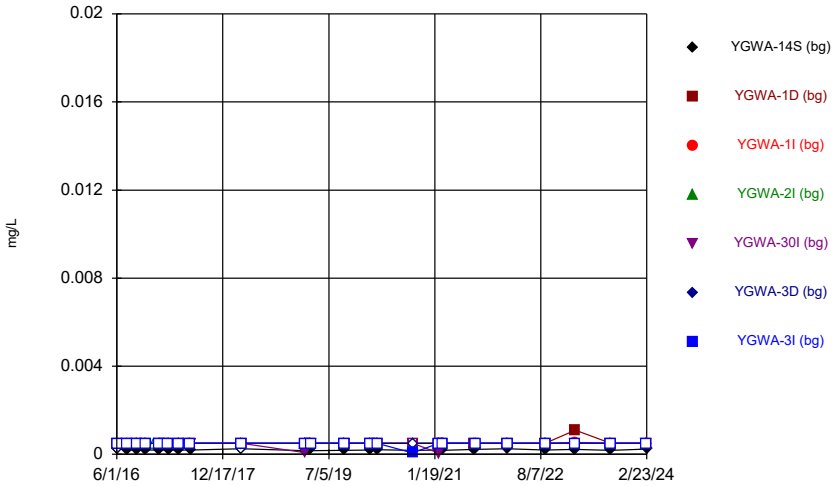

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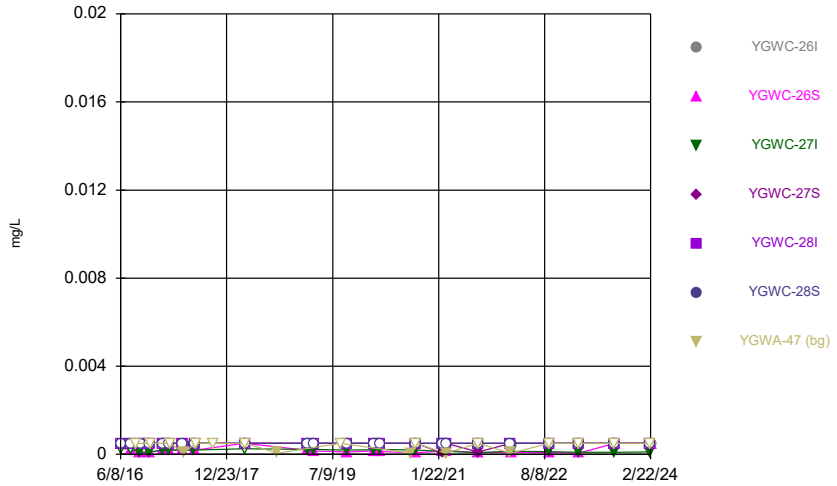

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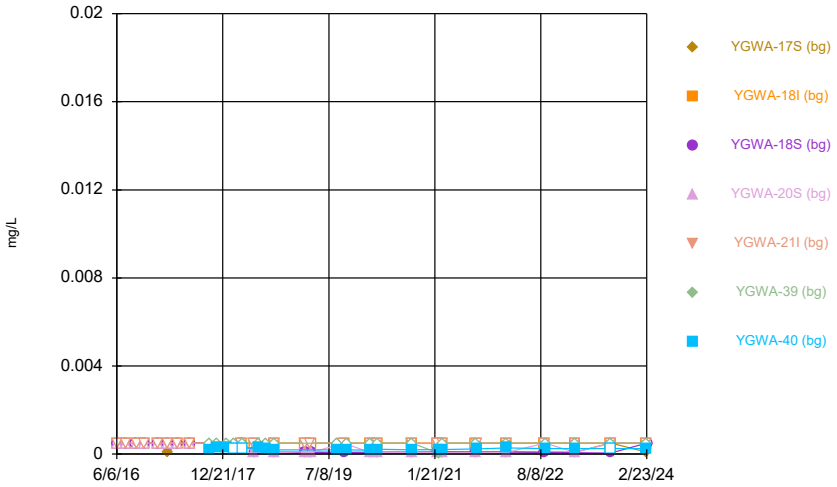

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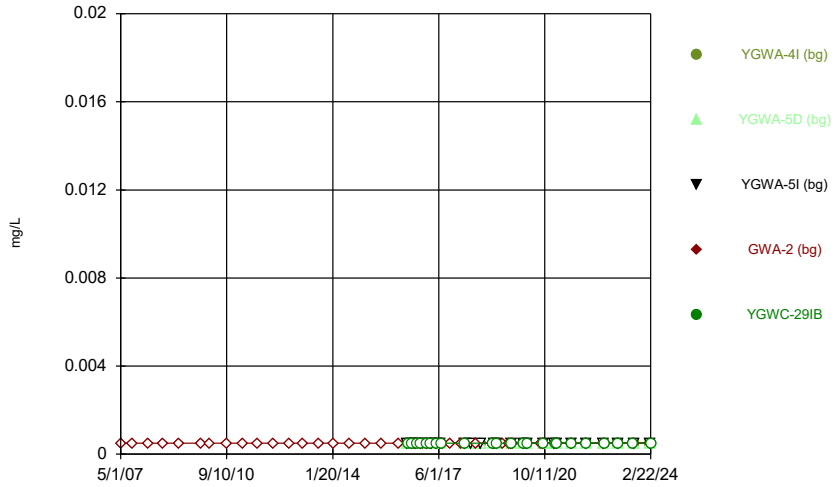

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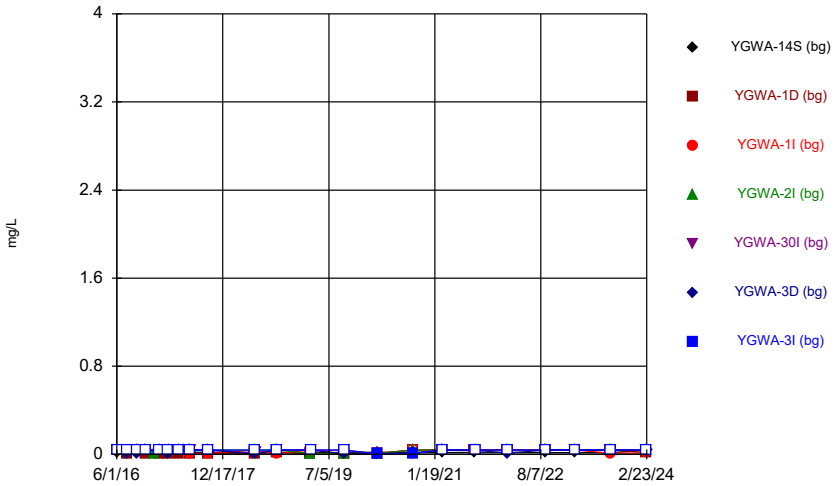

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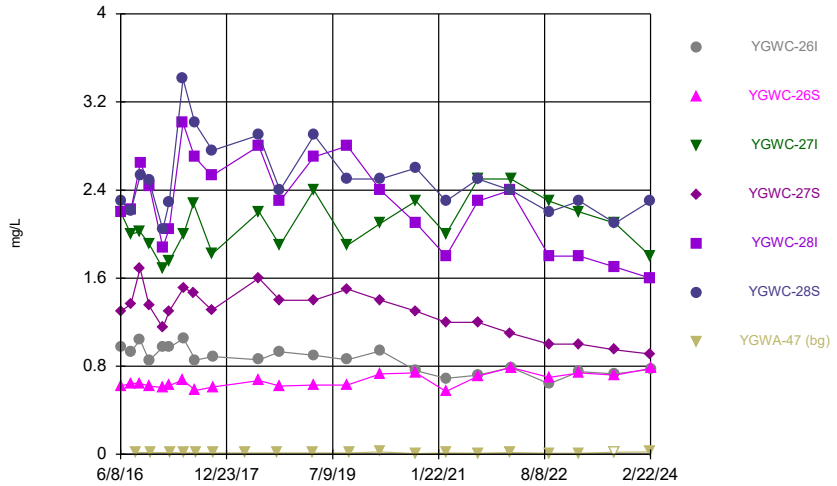

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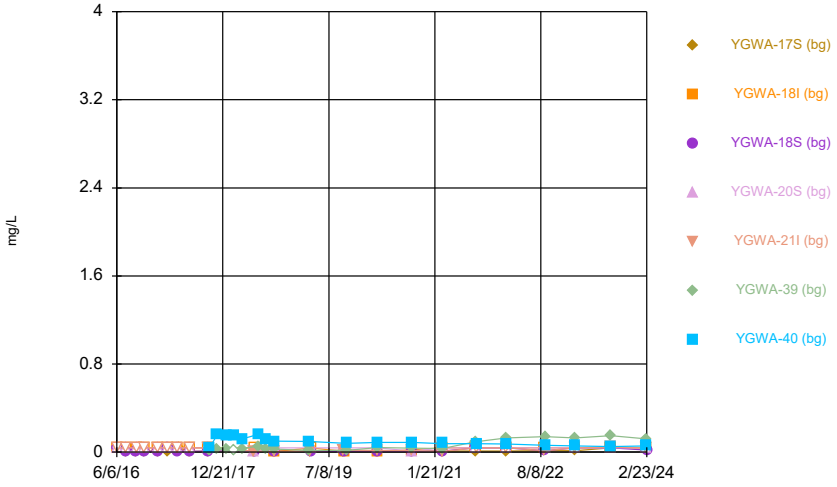

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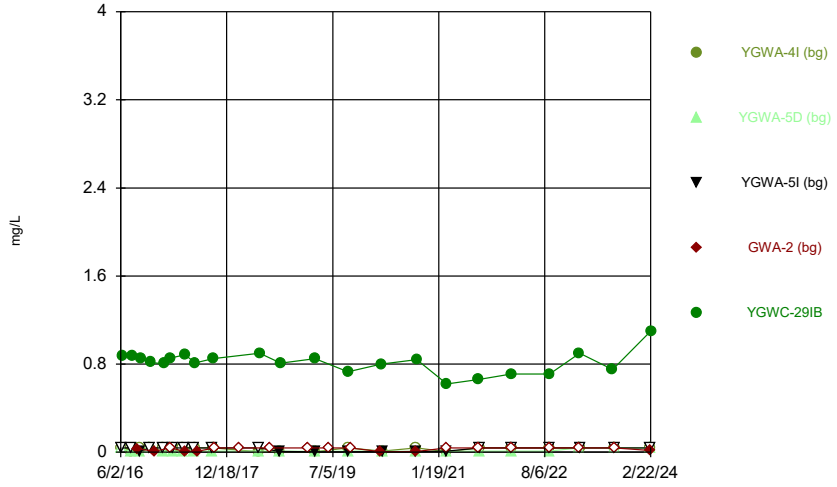

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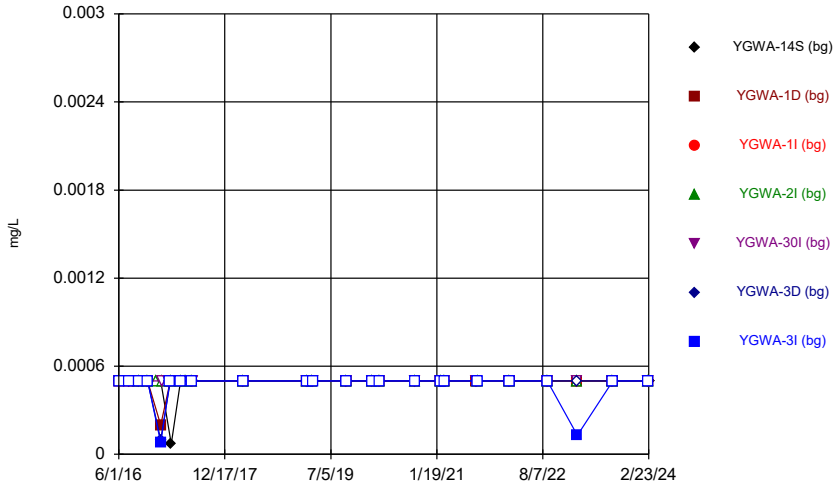

Constituent: Cadmium Analysis Run 5/2/2024 9:45 AM
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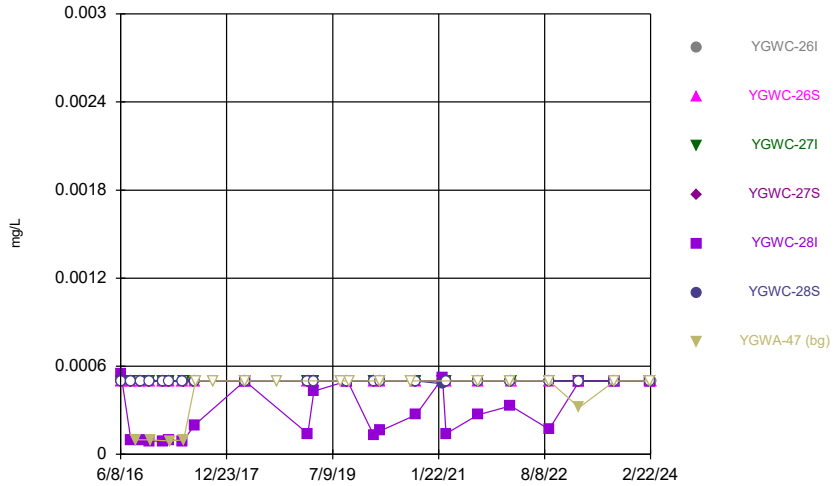

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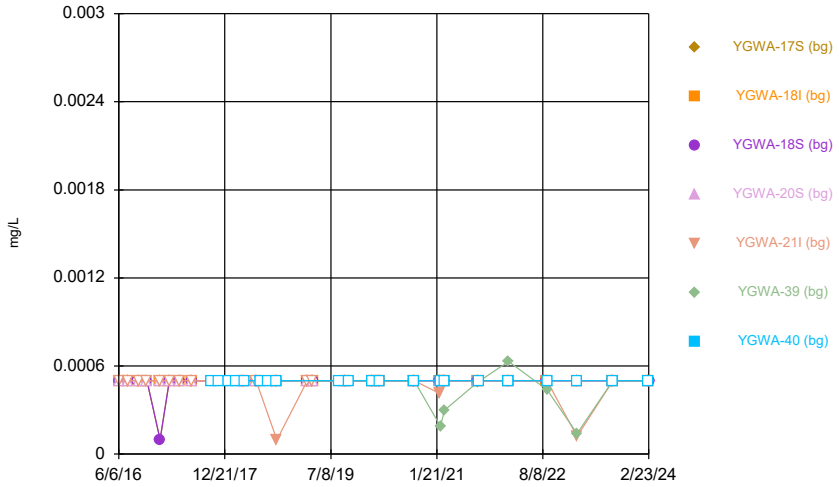

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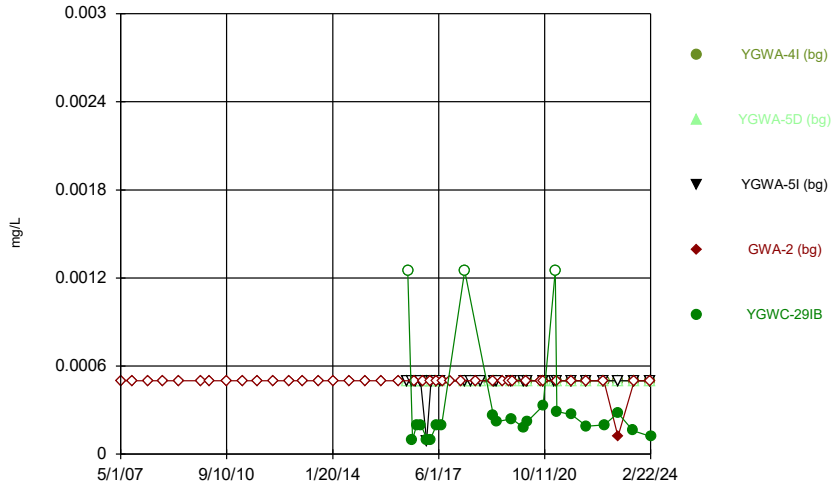

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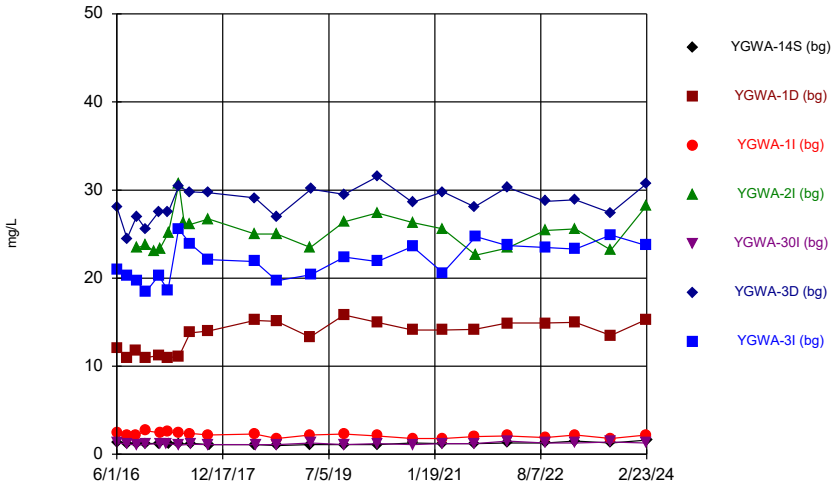
Time Series



Constituent: Calcium Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

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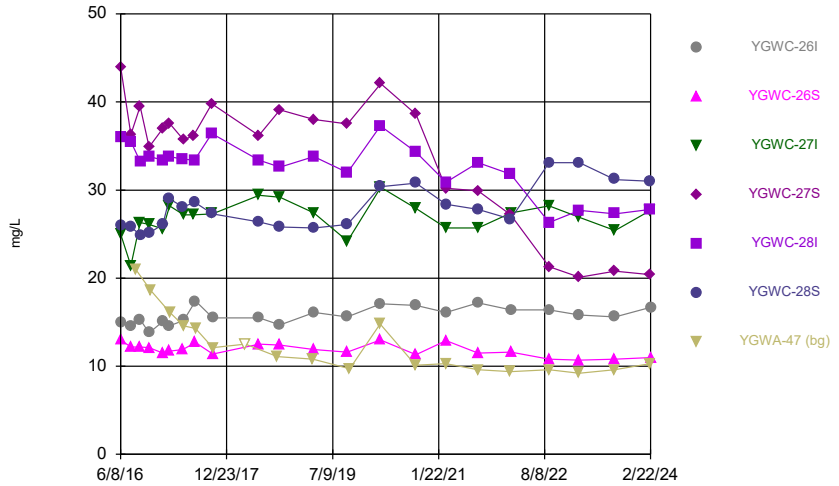
Time Series



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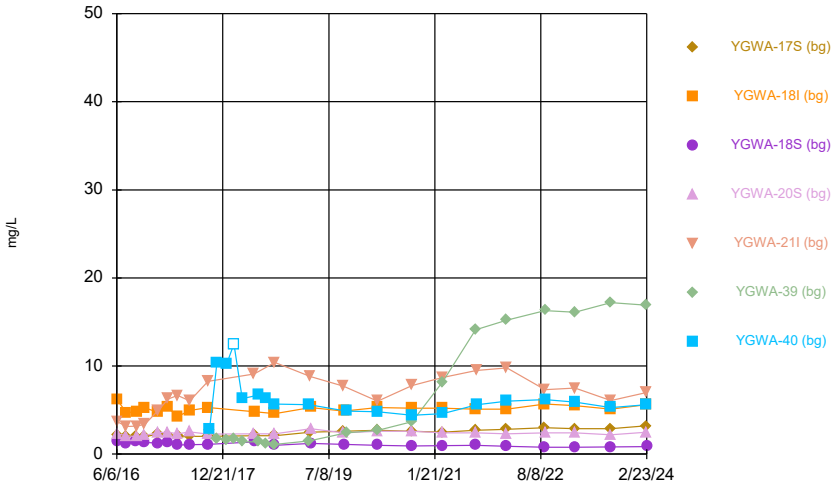

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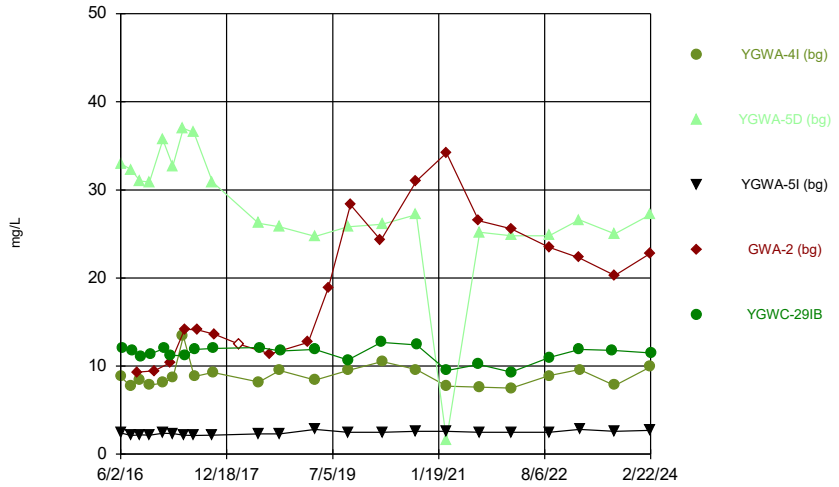

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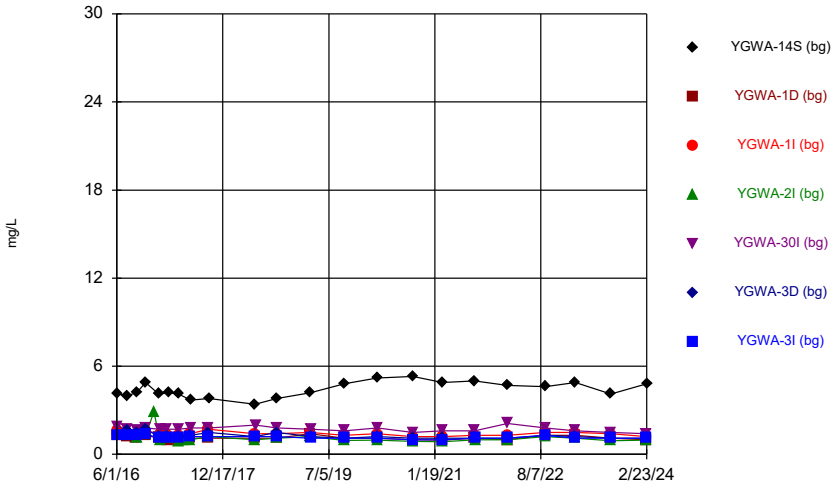
Sanitas™ v.10.0.16e Software licensed to . UG

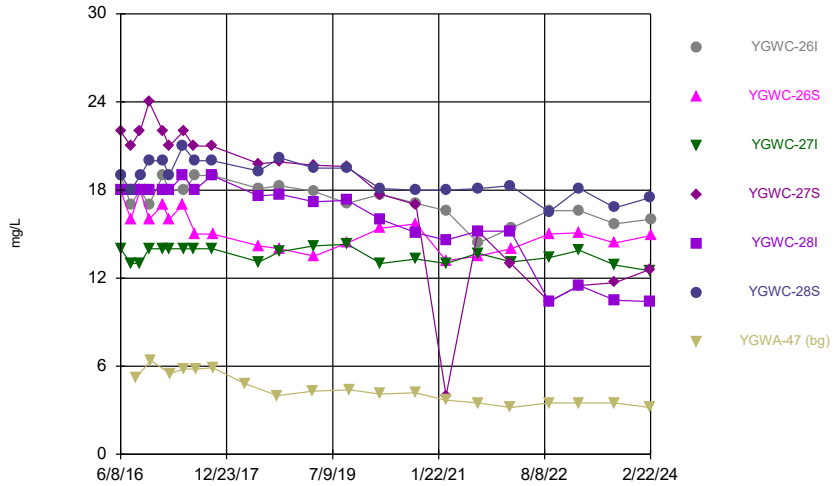
Time Series



Constituent: Chloride Analysis Run 5/2/2024 9:45 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

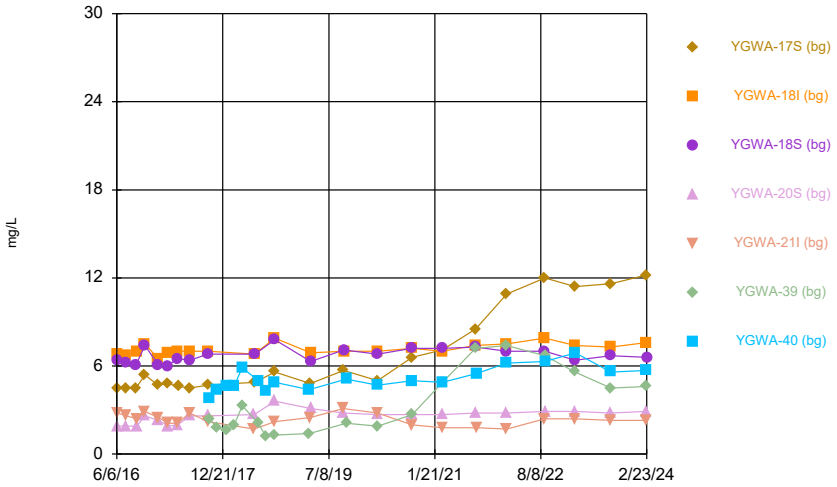
Time Series



Constituent: Chloride Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Time Series



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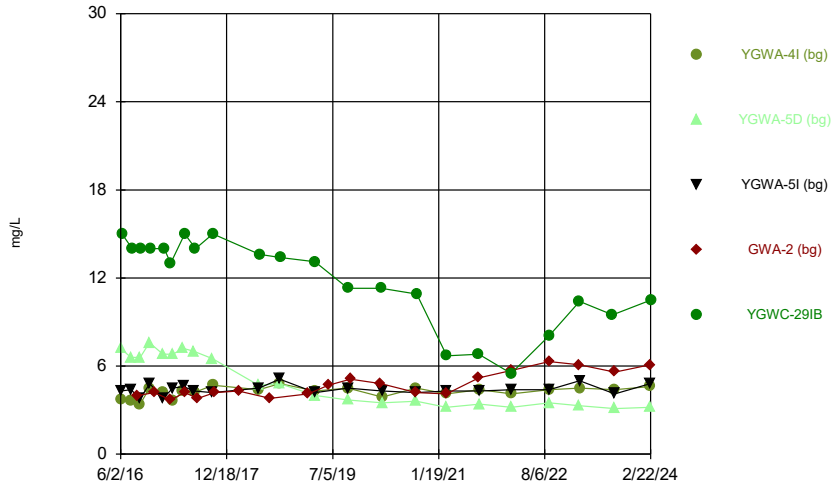
Time Series



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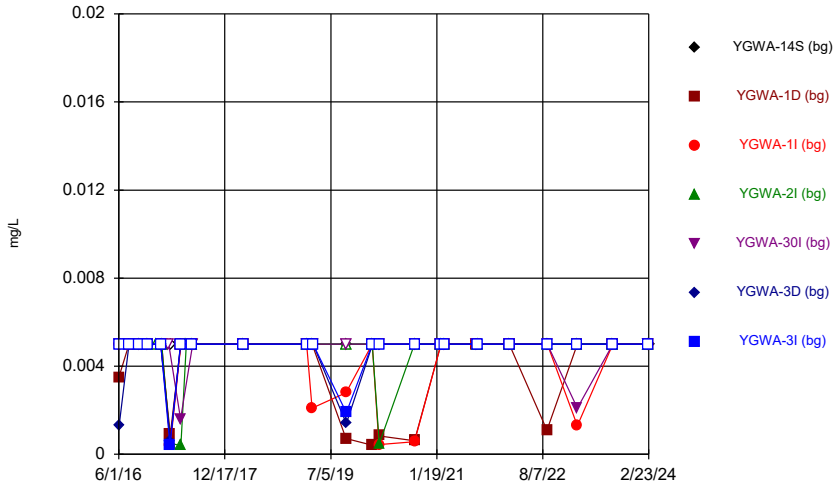

Constituent: Chromium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

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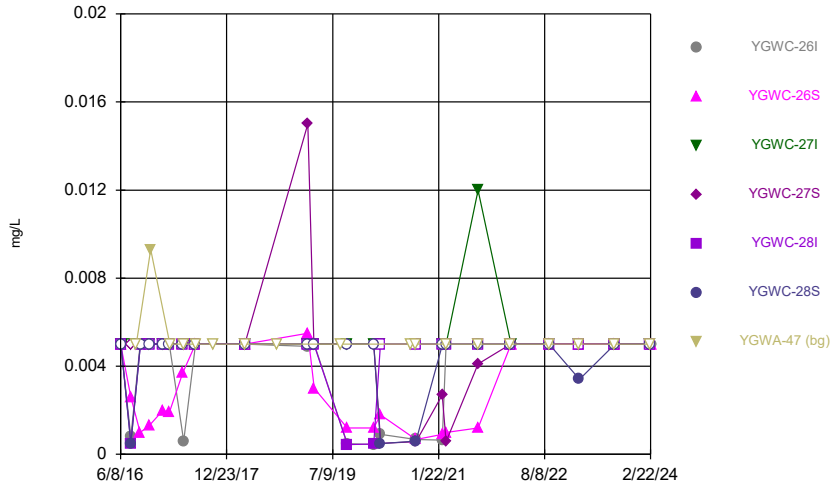
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

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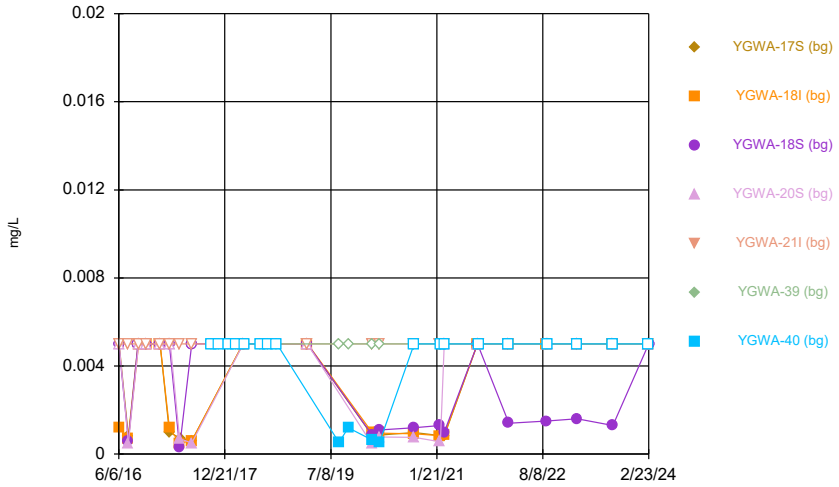
Hollow symbols indicate censored values.

Time Series



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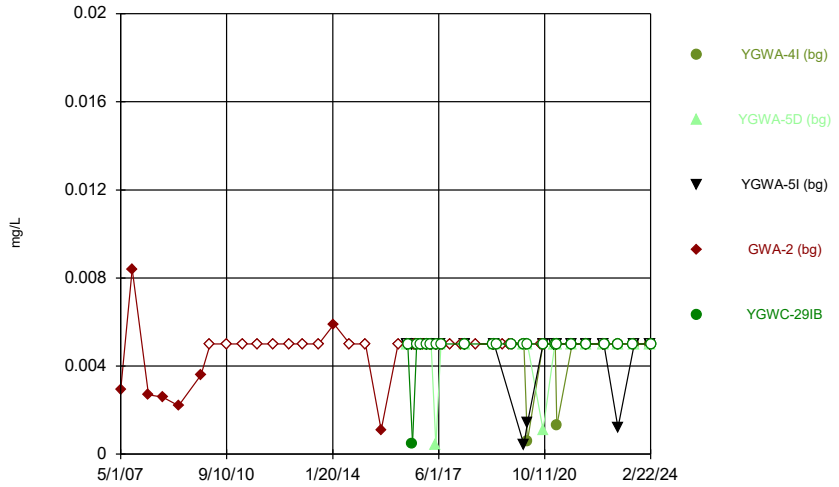
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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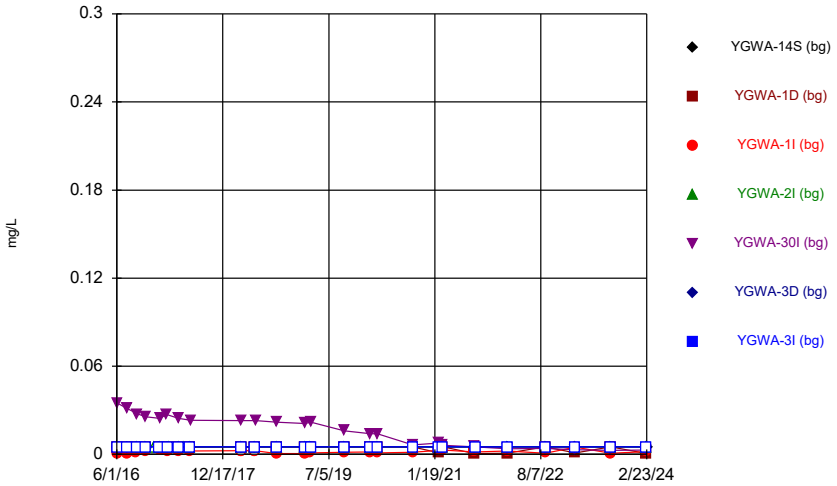
Time Series



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Plant Yates Data: Yates Ash Pond 2

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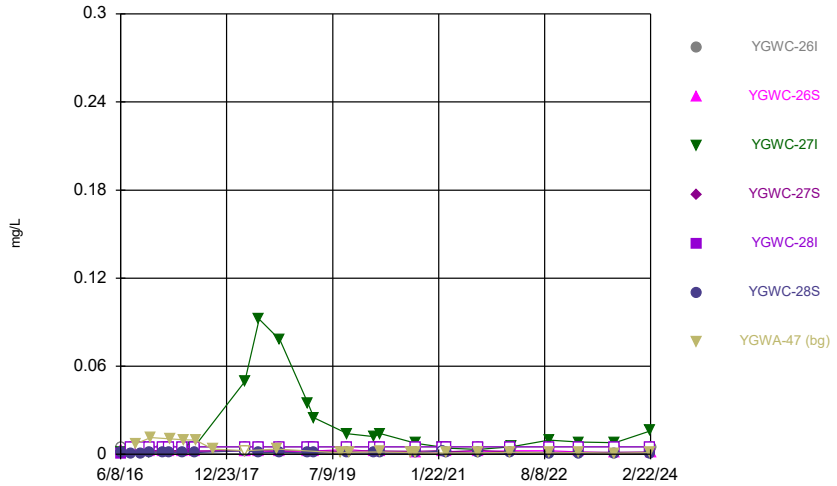

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Sanitas™ v.10.0.16e Software licensed to . UG
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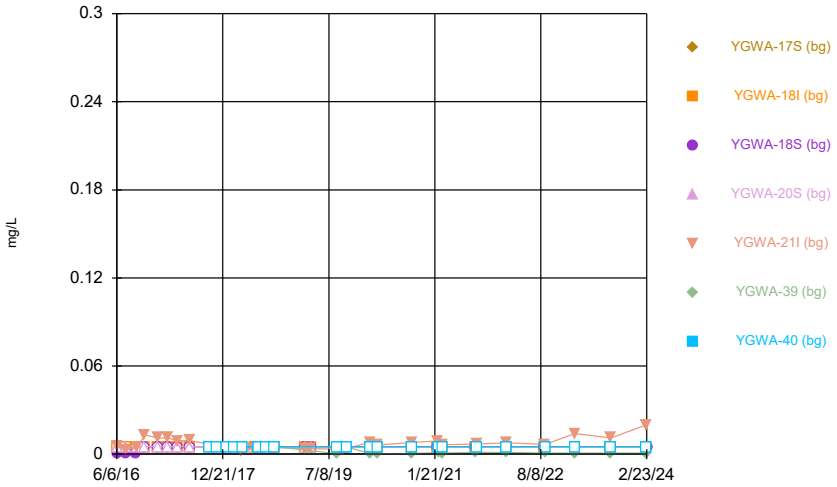
Time Series



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Sanitas™ v.10.0.16e Software licensed to . UG
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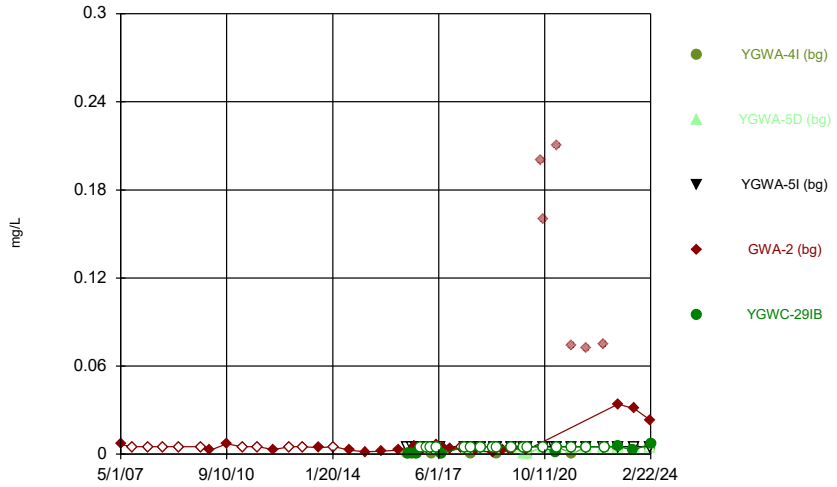
Time Series



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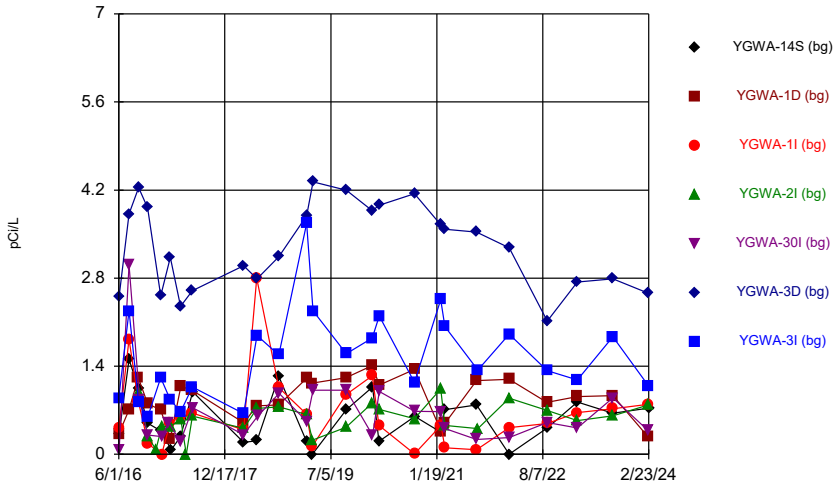
Sanitas™ v.10.0.16e Software licensed to . UG

Time Series



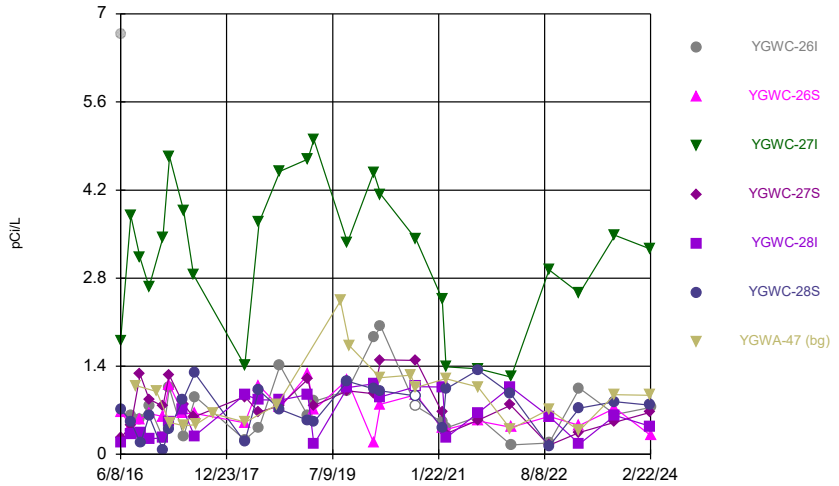
Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:46 AM

Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Hollow symbols indicate censored values.

Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:46 AM

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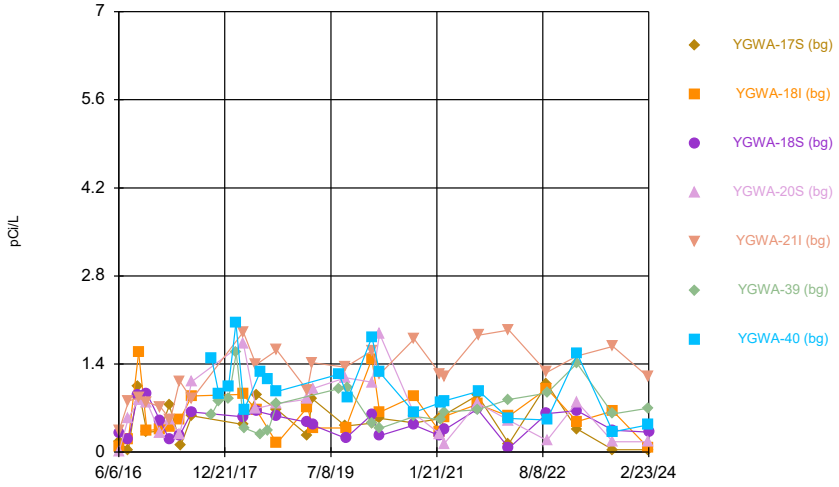
Sanitas™ v.10.0.16e Software licensed to . UG

Time Series



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Sanitas™ v.10.0.16e Software licensed to . UG

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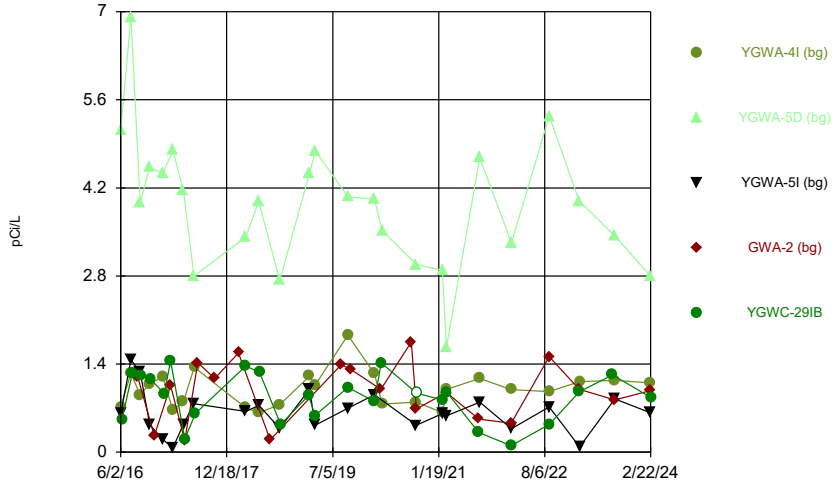

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Sanitas™ v.10.0.16e Software licensed to . UG
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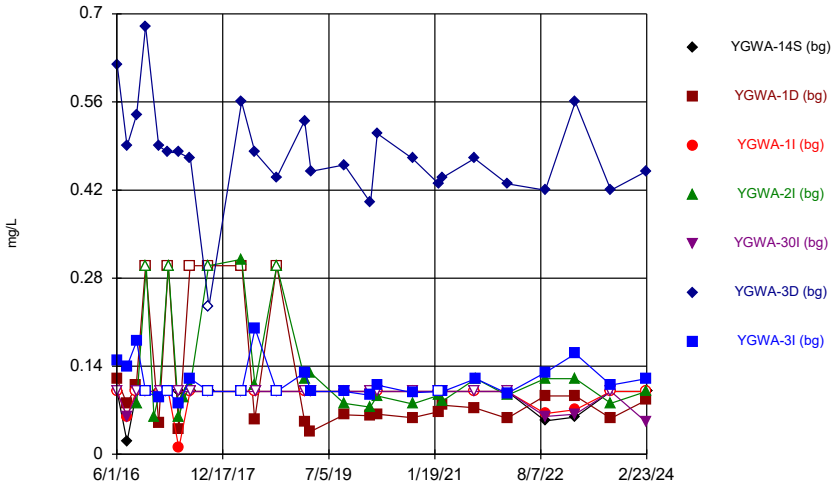
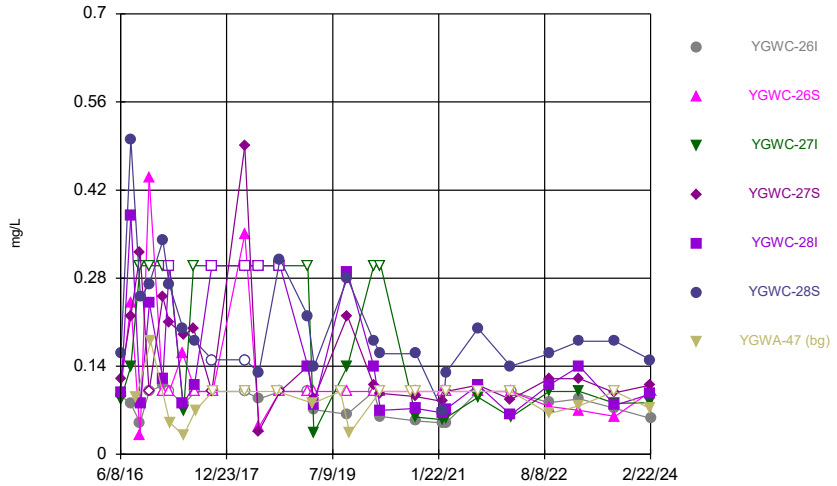
Time Series



Constituent: Fluoride Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 5/2/2024 9:46 AM
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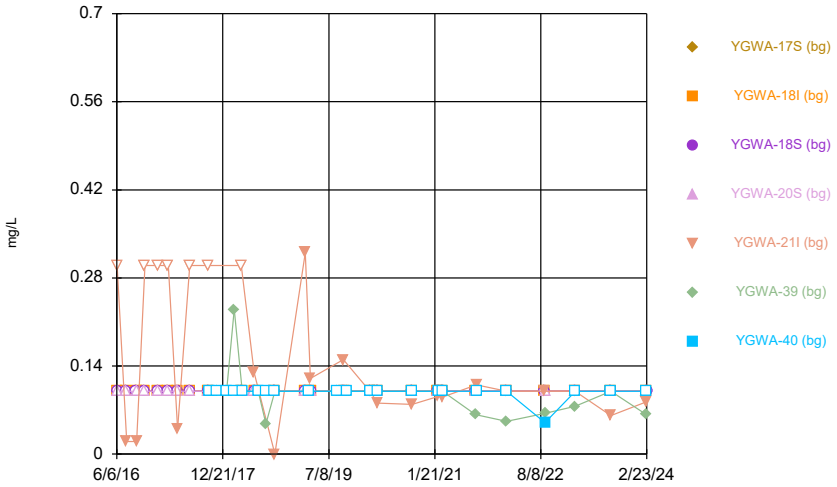
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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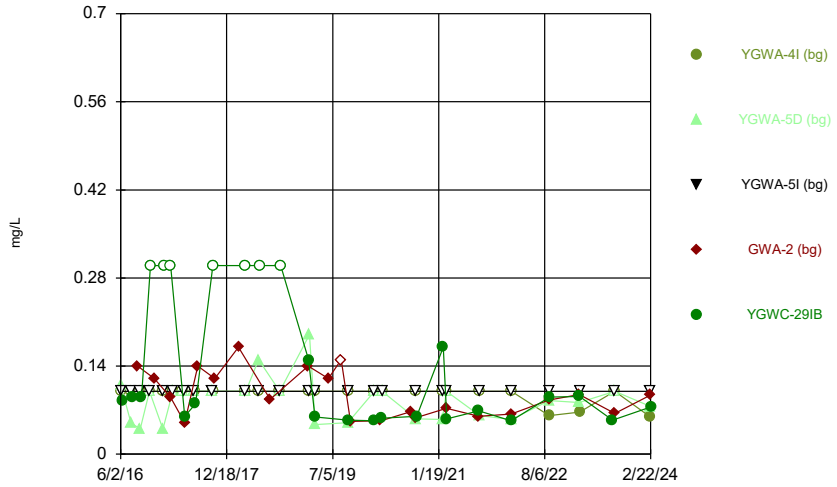
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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Hollow symbols indicate censored values.

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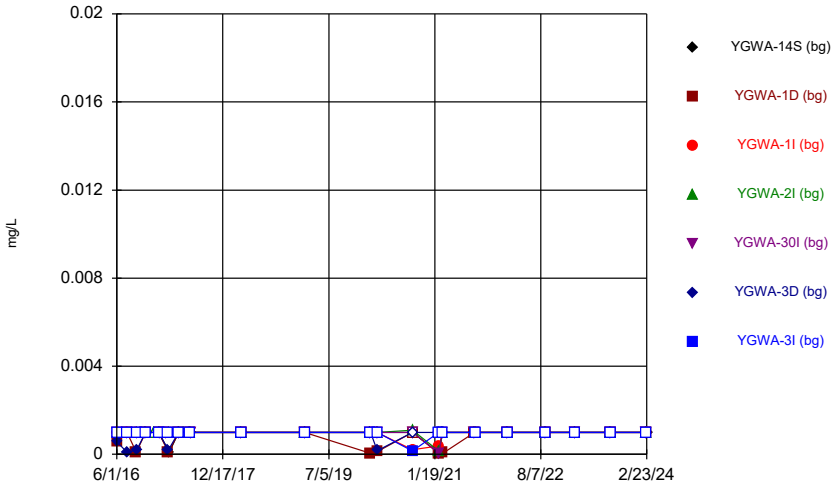

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Sanitas™ v.10.0.16e Software licensed to . UG
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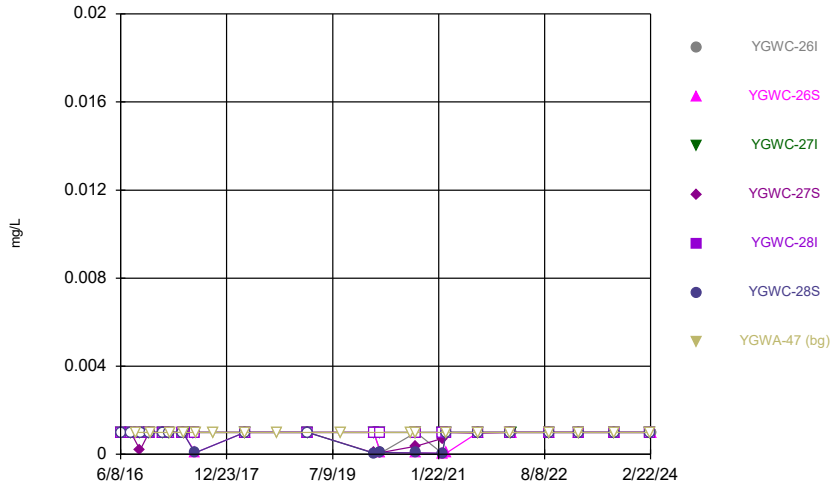
Time Series



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Sanitas™ v.10.0.16e Software licensed to . UG
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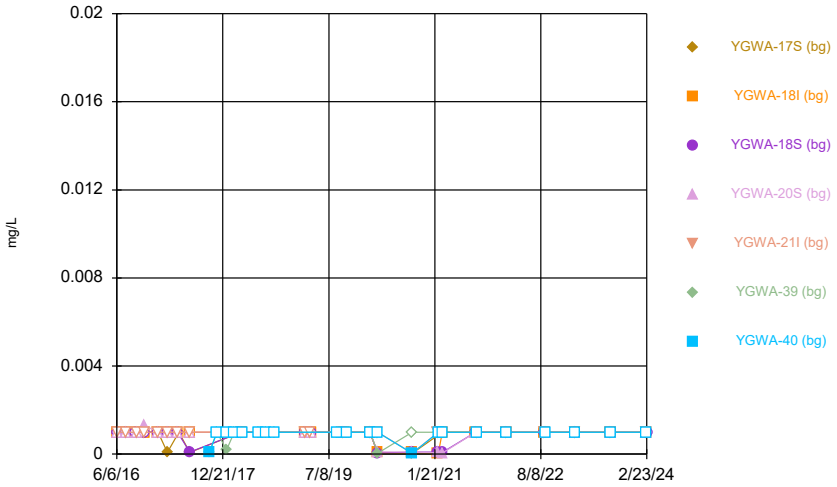
Time Series



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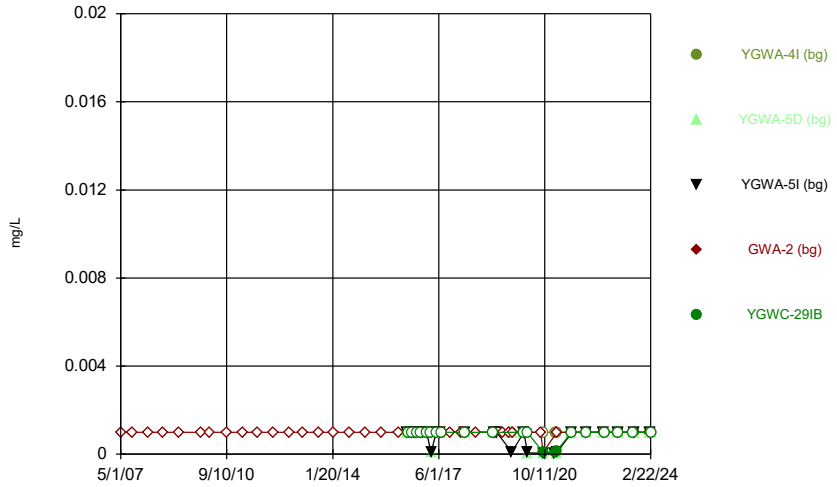
Time Series



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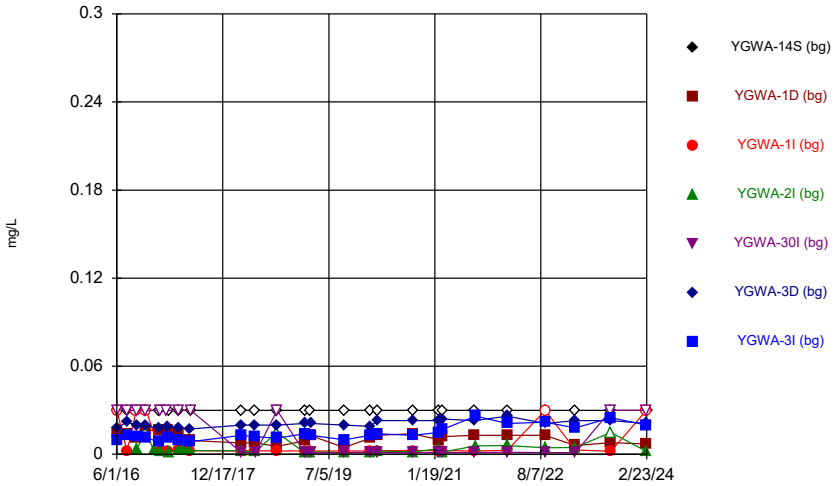
Time Series



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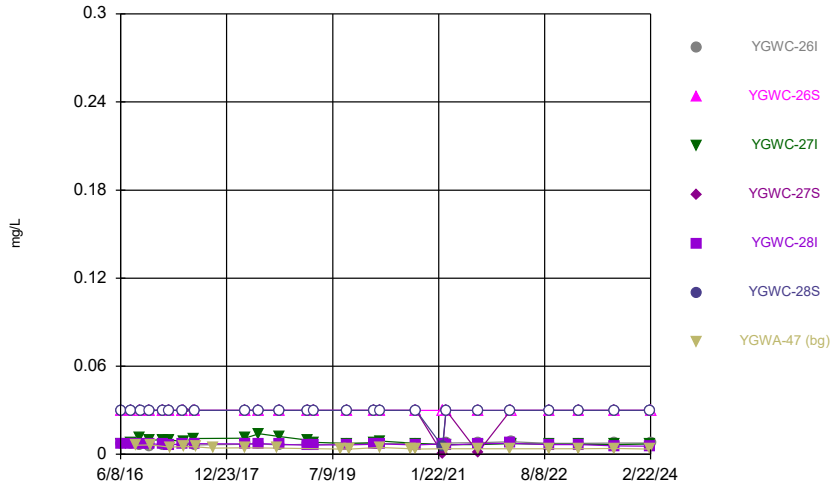
Time Series



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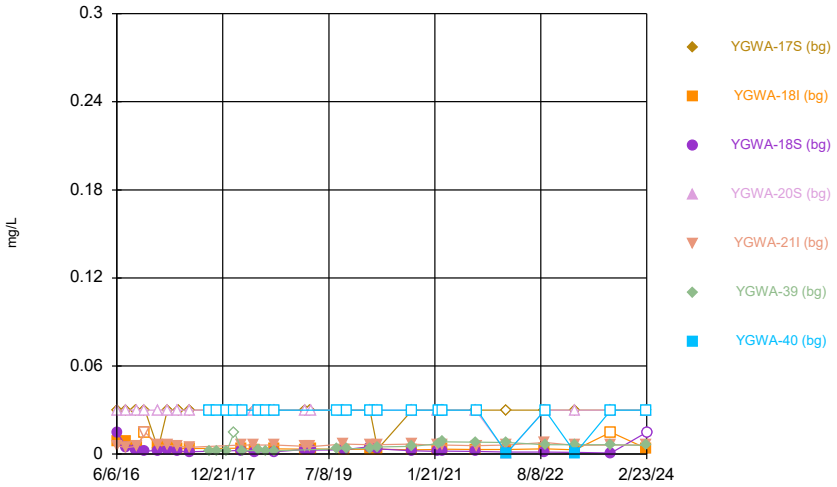

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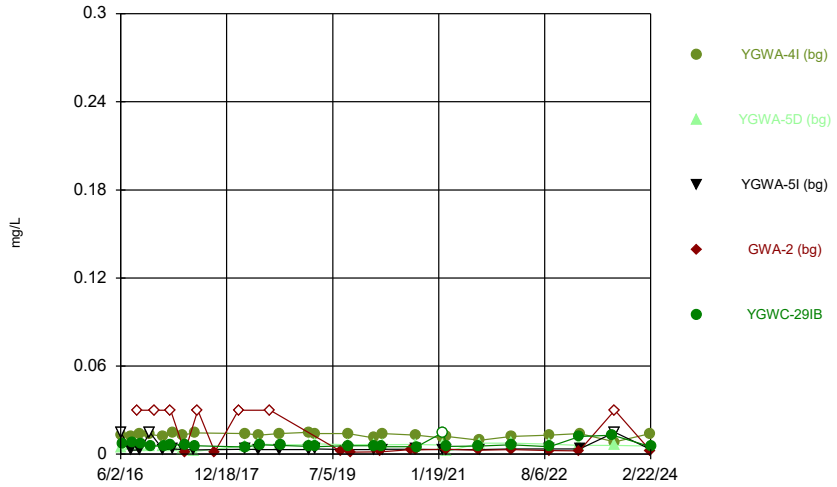

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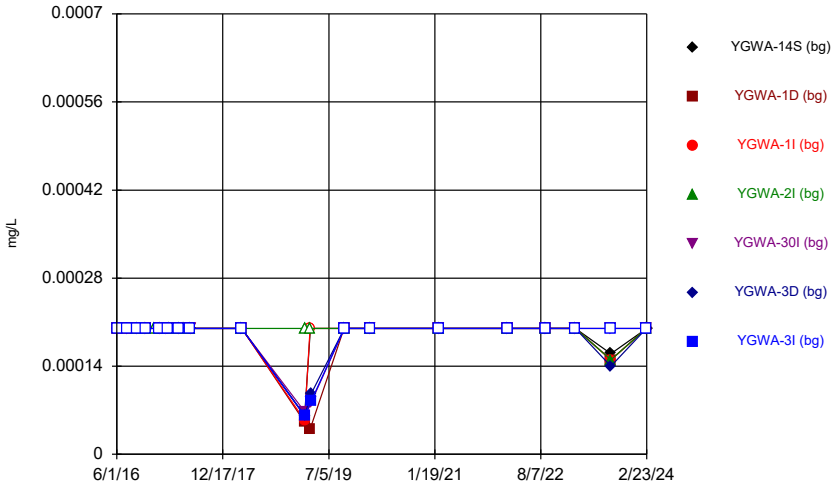

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Plant Yates Data: Yates Ash Pond 2

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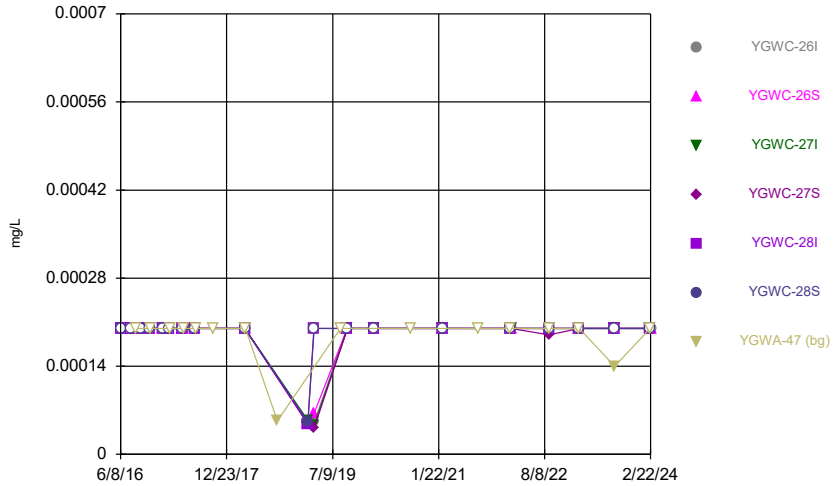
Hollow symbols indicate censored values.

Time Series



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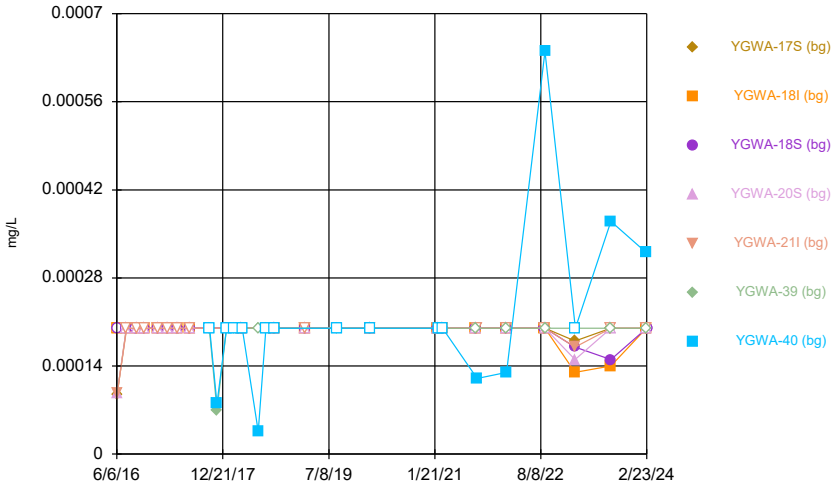

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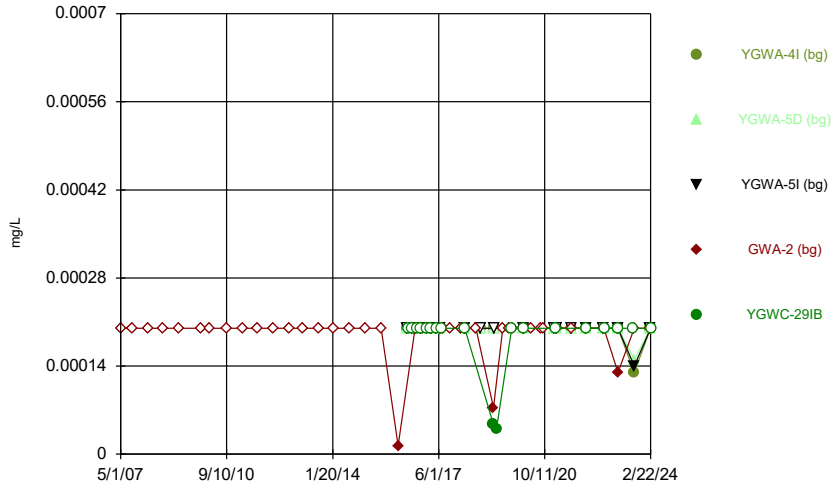

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Sanitas™ v.10.0.16e Software licensed to . UG
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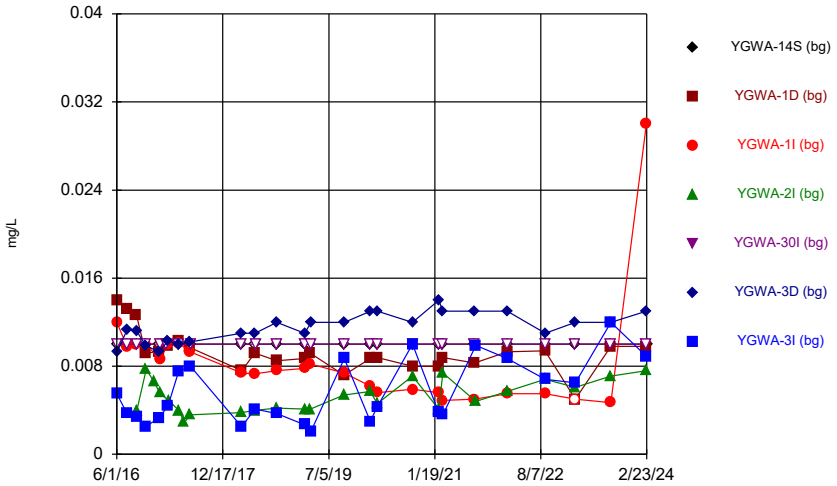

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Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

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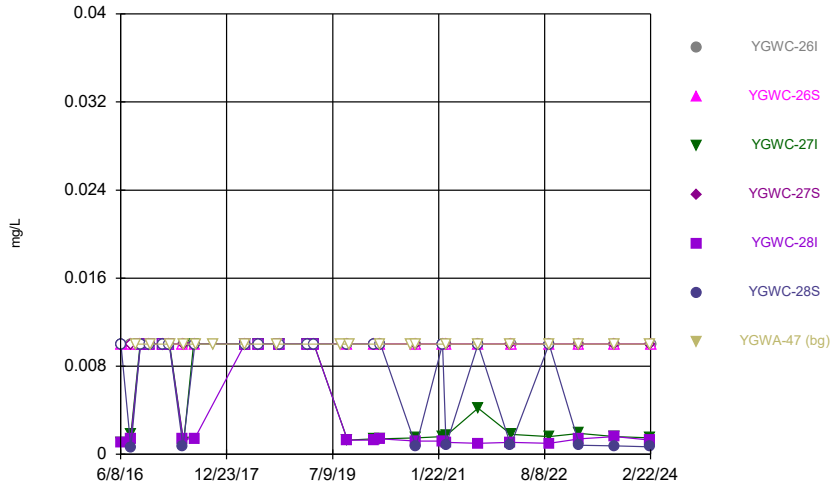

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Sanitas™ v.10.0.16e Software licensed to . UG
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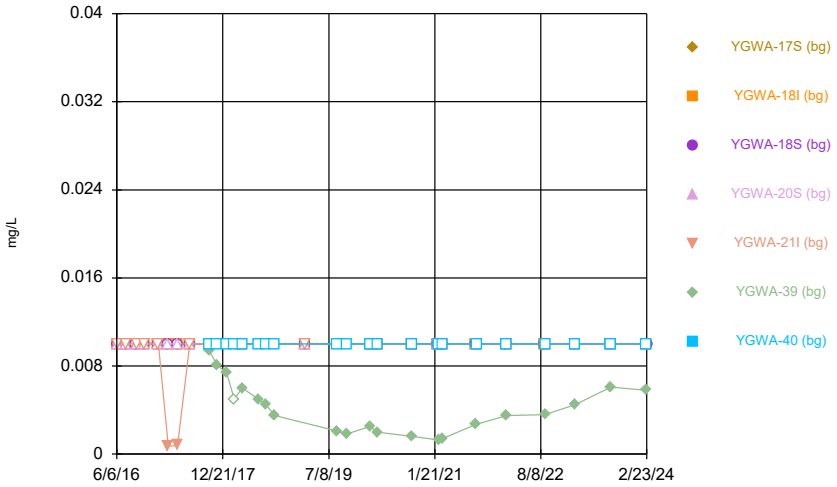

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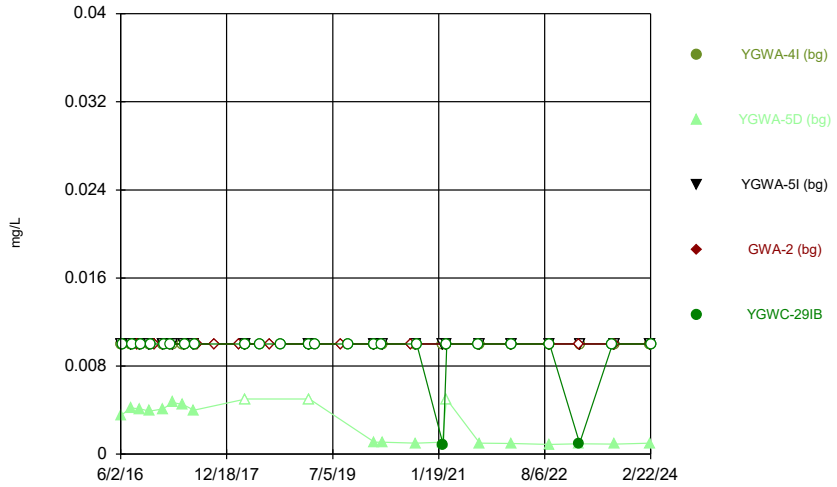
Time Series



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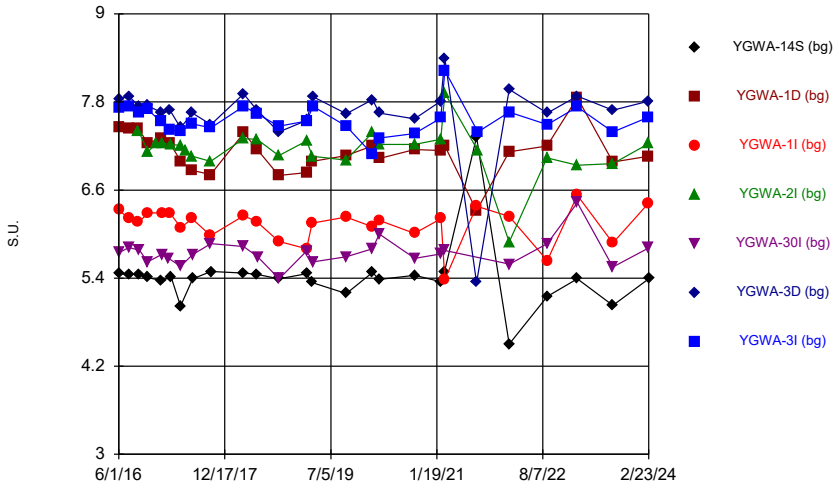
Sanitas™ v.10.0.16e Software licensed to . UG

Time Series



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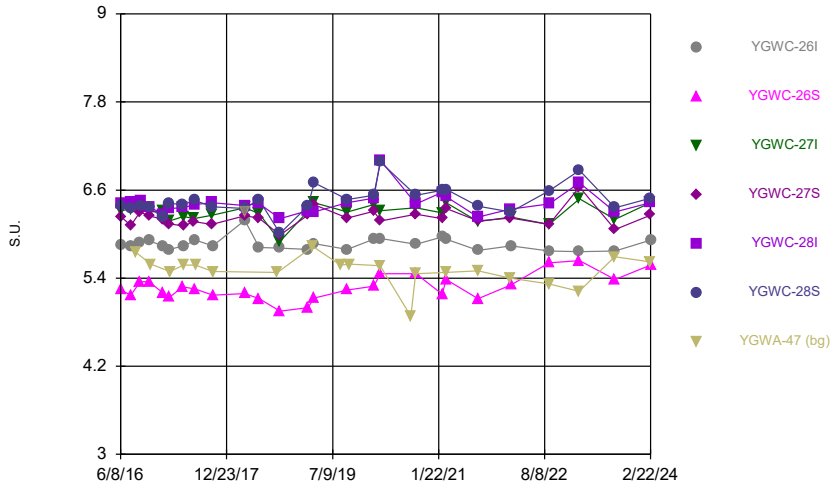
Sanitas™ v.10.0.16e Software licensed to . UG

Time Series



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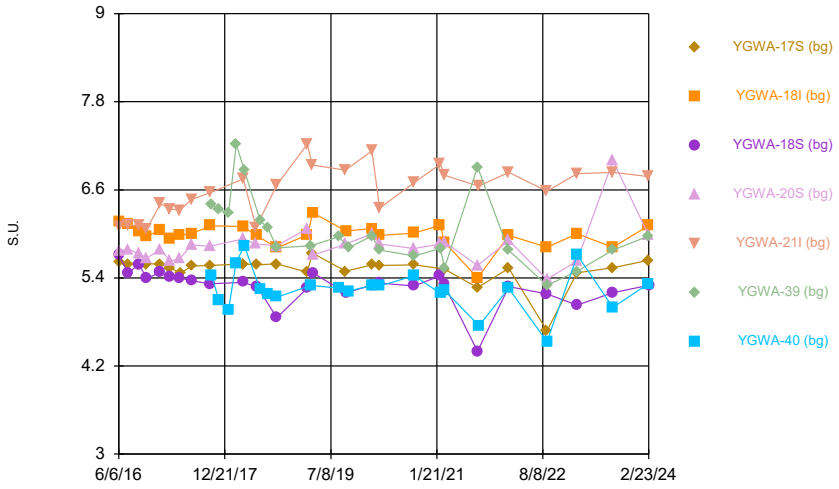
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Time Series



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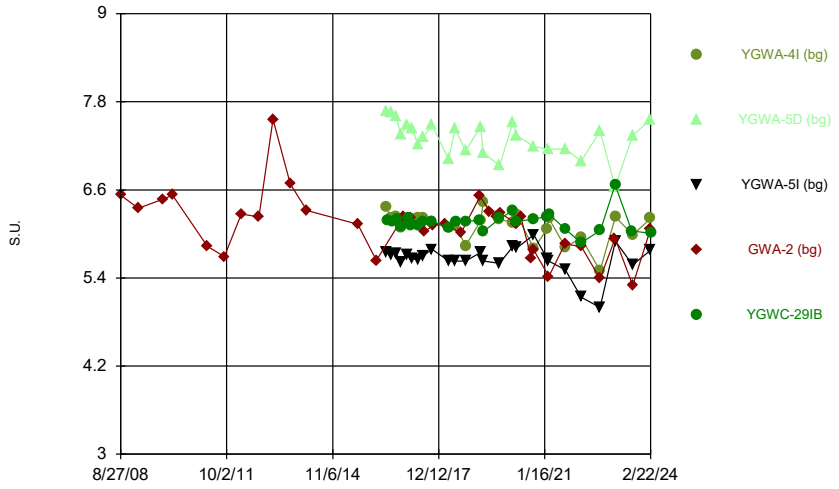
Sanitas™ v.10.0.16e Software licensed to . UG

Time Series



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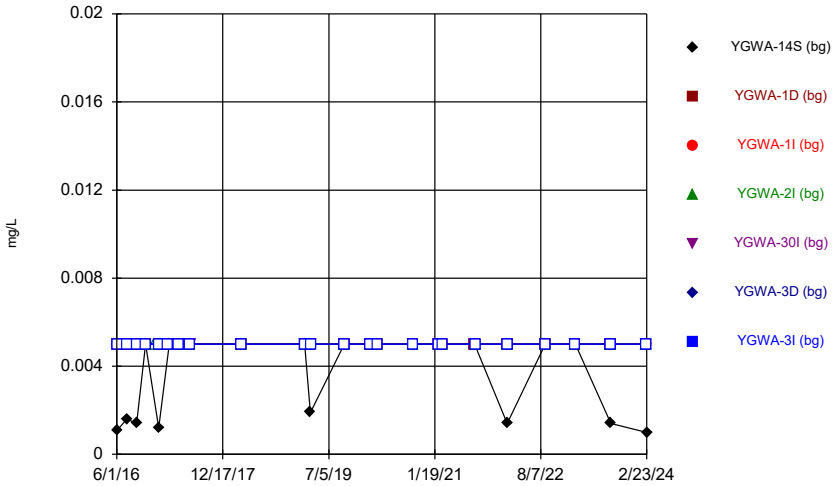
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

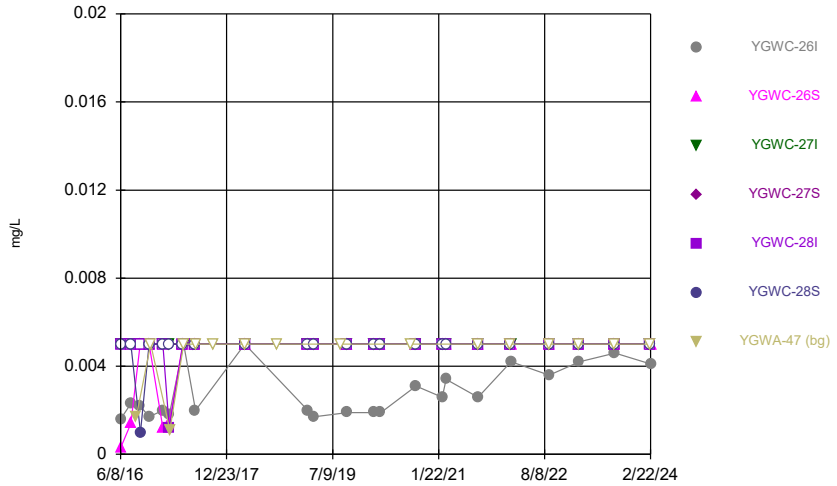
Time Series



Constituent: Selenium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 5/2/2024 9:46 AM
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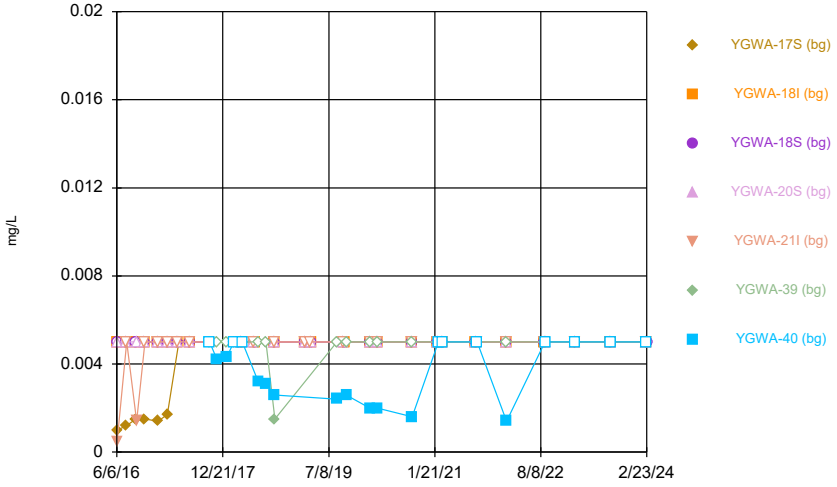
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



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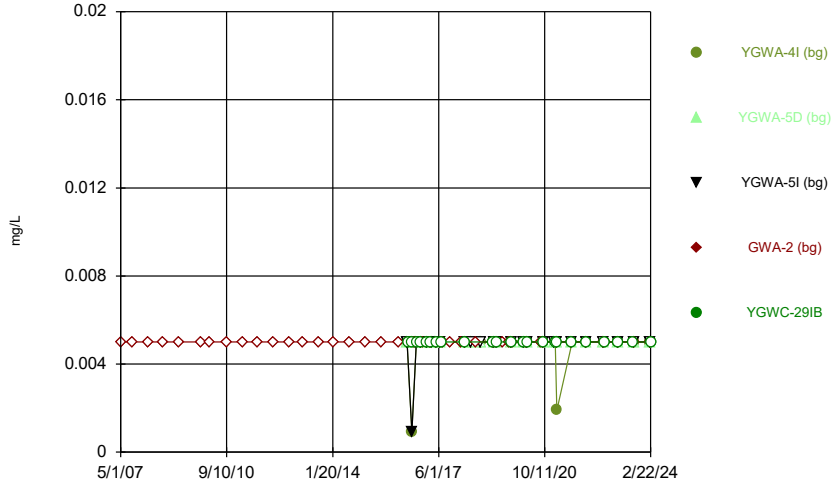
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Time Series



Constituent: Selenium Analysis Run 5/2/2024 9:46 AM
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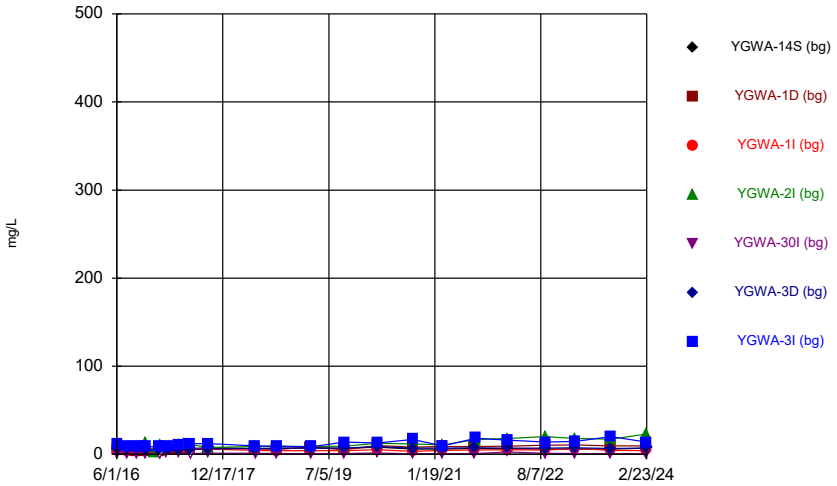
Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

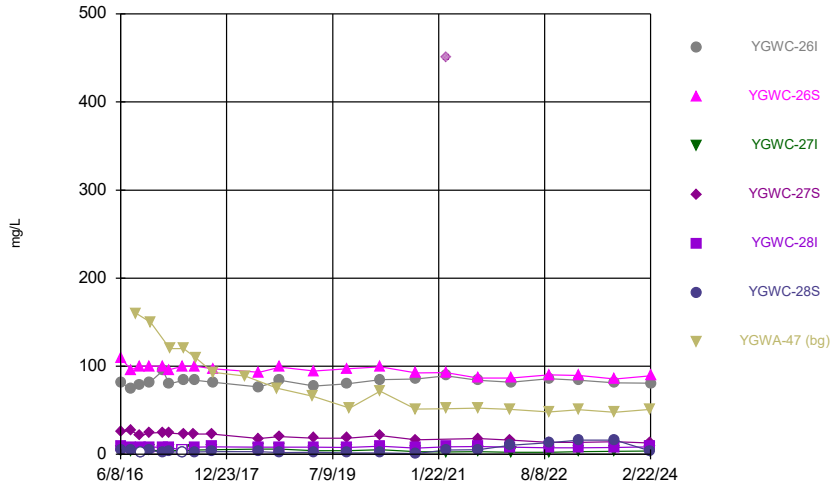
Time Series



Constituent: Sulfate Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

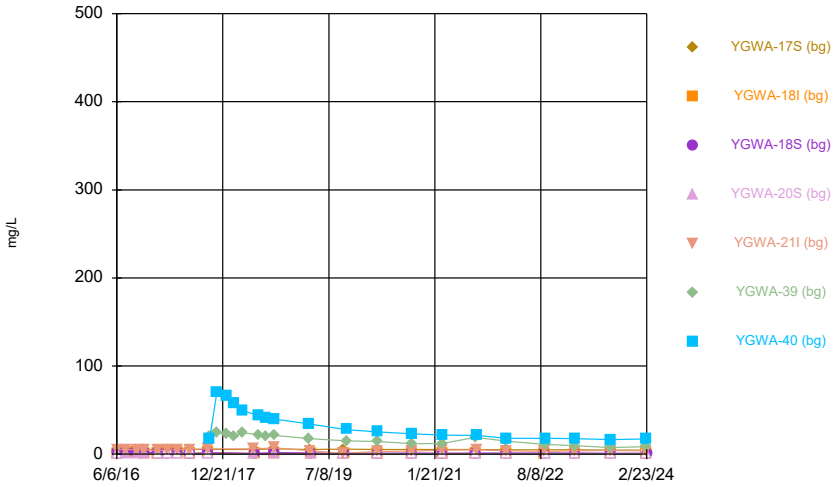
Time Series



Constituent: Sulfate Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

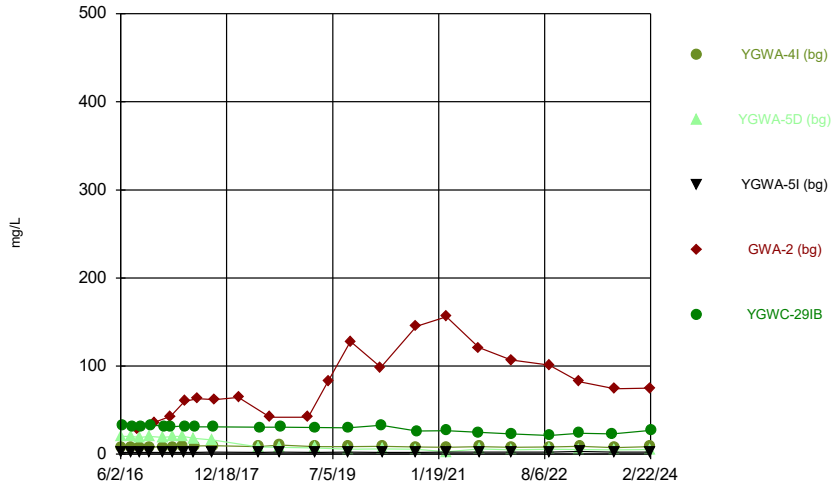
Time Series



Constituent: Sulfate Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

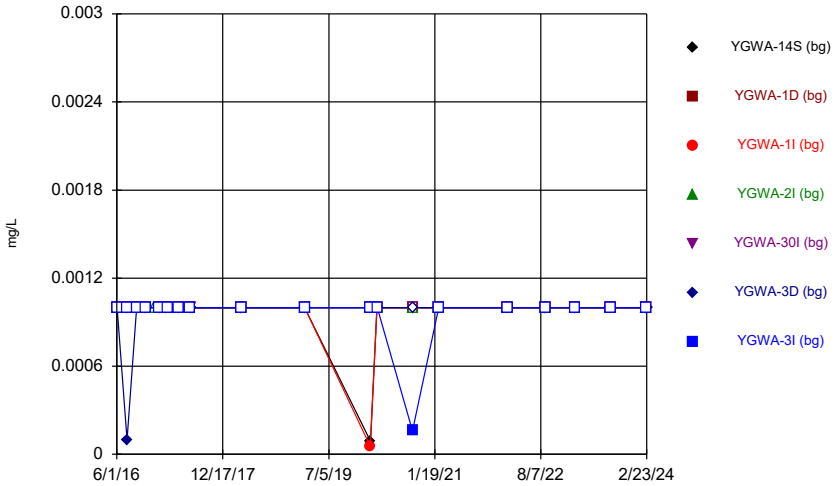
Time Series



Constituent: Sulfate Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

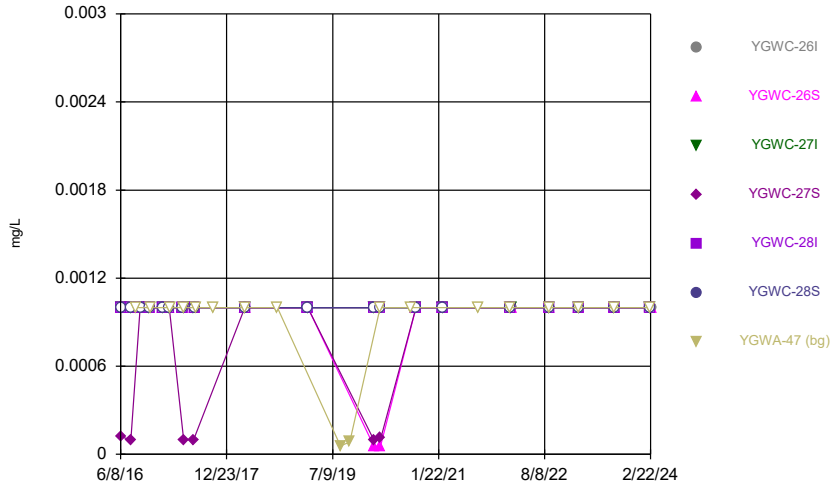
Time Series



Constituent: Thallium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

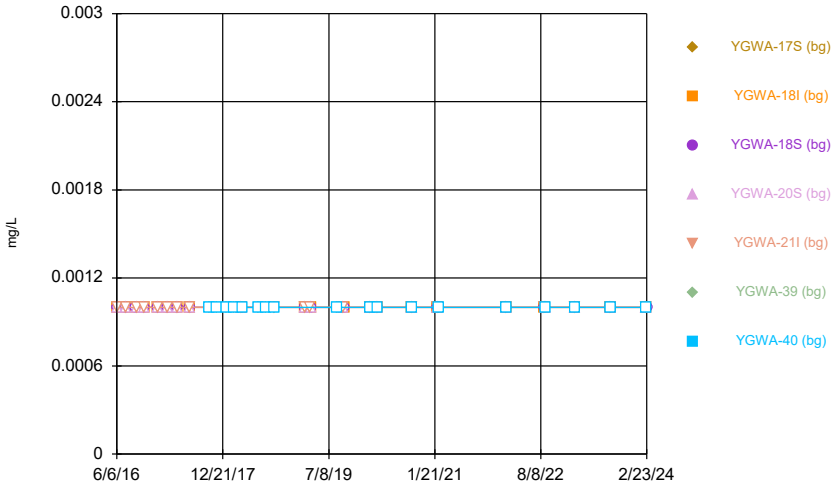
Time Series



Constituent: Thallium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

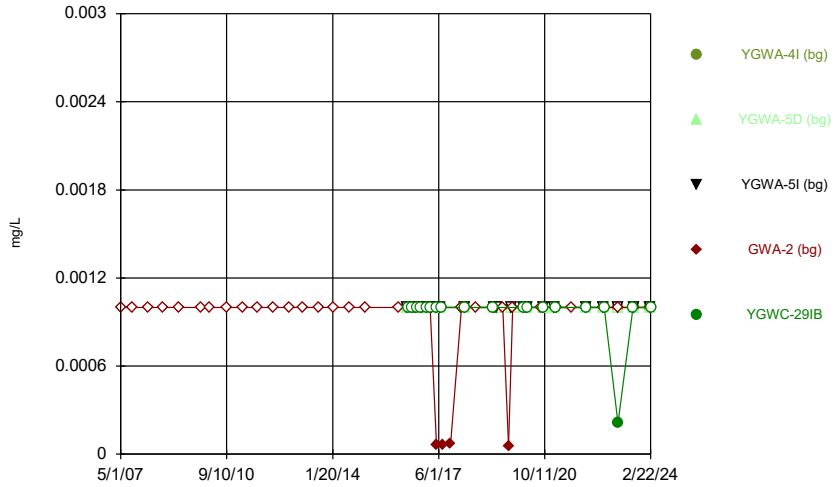
Time Series



Constituent: Thallium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

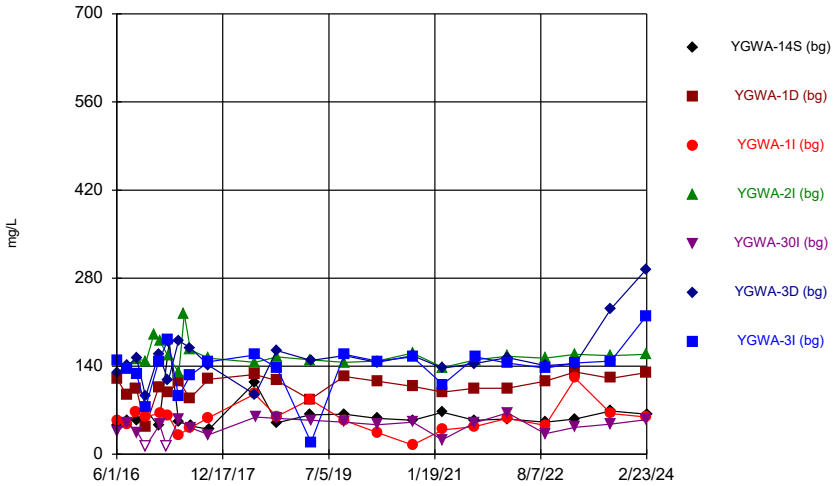
Time Series



Constituent: Thallium Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

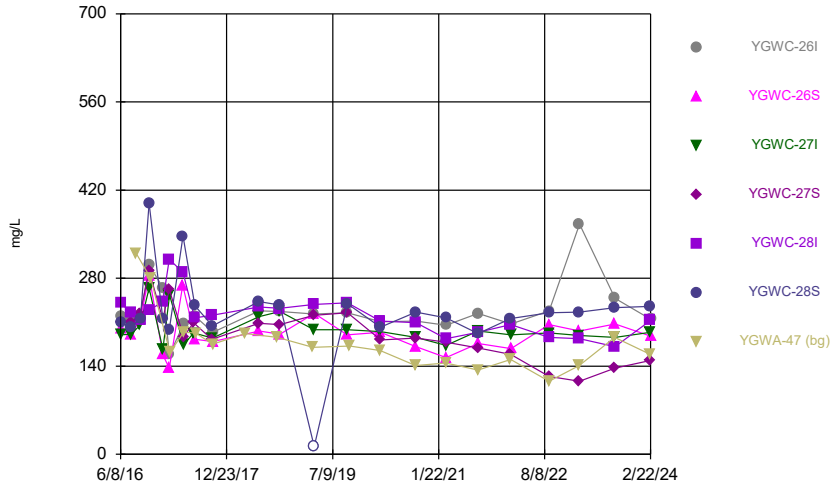
Time Series



Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

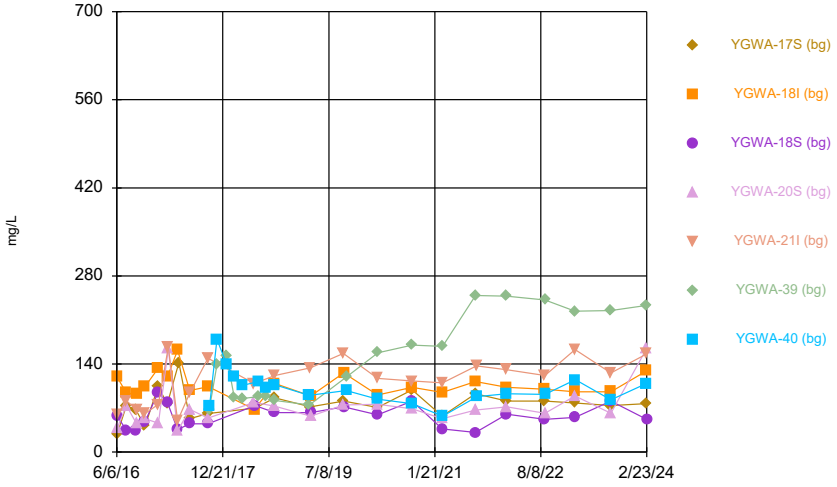
Time Series



Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

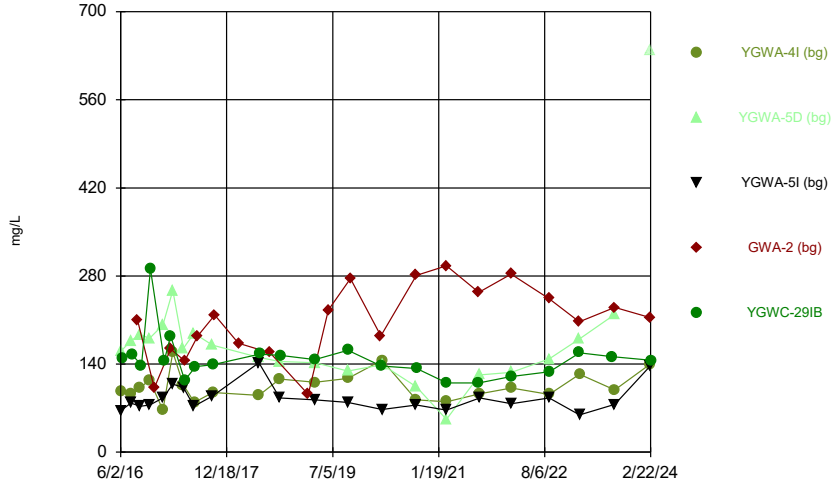
Time Series



Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:46 AM
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:47 AM
Plant Yates Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0005 (J)	0.001 (J)				0.002 (J)	
9/13/2016		0.001 (J)	<0.003				
9/14/2016				<0.003			<0.003
9/15/2016	<0.003					0.0027 (J)	
9/19/2016					<0.003		
11/1/2016		0.0015 (J)			<0.003	<0.003	<0.003
11/2/2016	<0.003						
11/4/2016			<0.003	<0.003			
12/15/2016				0.0012 (J)			
1/10/2017	<0.003						
1/11/2017		<0.003				<0.003	<0.003
1/16/2017			<0.003	<0.003	<0.003		
2/21/2017					<0.003		
3/1/2017							<0.003
3/2/2017		0.0004 (J)	<0.003			0.0008 (J)	
3/3/2017				<0.003			
3/8/2017	<0.003						
4/26/2017	<0.003				<0.003	<0.003	<0.003
4/27/2017		0.0004 (J)	0.0017 (J)				
4/28/2017				0.0015 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003		<0.003	<0.003
6/30/2017	<0.003				<0.003		
3/27/2018	<0.003		<0.003		<0.003		
3/28/2018				<0.003		<0.003	<0.003
3/29/2018		<0.003					
2/26/2019	<0.003				<0.003		
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
2/10/2020		0.00088 (J)	<0.003				
2/11/2020				0.00036 (J)			<0.003
2/12/2020	<0.003				<0.003	<0.003	
3/18/2020	<0.003		0.0004 (J)				
3/19/2020		<0.003		0.0003 (J)	<0.003	0.00064 (J)	<0.003
9/23/2020		<0.003	<0.003	<0.003		<0.003	<0.003
9/24/2020					<0.003		
9/25/2020	<0.003						
2/10/2021	<0.003			0.0013 (J)		<0.003	<0.003
2/11/2021					<0.003		
2/12/2021		<0.003	<0.003				
3/1/2021					<0.003		
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003
8/19/2021	<0.003	<0.003	<0.003		<0.003	<0.003	
8/27/2021				<0.003			<0.003
2/9/2022		<0.003	<0.003	<0.003		0.0018 (J)	<0.003
2/10/2022	<0.003						
2/11/2022					<0.003		
8/30/2022		<0.003		<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/31/2022	<0.003		<0.003		<0.003	<0.003	<0.003
2/7/2023		<0.003	<0.003	<0.003			
2/8/2023	<0.003				<0.003	<0.003	<0.003
8/15/2023	<0.003	<0.003	<0.003	<0.003		<0.003	
8/16/2023					<0.003		<0.003
2/20/2024		0.0023 (J)	<0.003	0.00067 (J)	<0.003	<0.003	<0.003
2/23/2024	<0.003						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	
8/1/2016	<0.003	<0.003	<0.003	<0.003			
8/2/2016					<0.003	<0.003	
8/30/2016							0.0028 (J)
9/20/2016	<0.003	<0.003	<0.003	<0.003			
9/21/2016					<0.003	<0.003	
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003	
11/8/2016					<0.003		
11/14/2016							<0.003
1/18/2017	<0.003	<0.003	<0.003		<0.003	<0.003	
1/19/2017				<0.003			
2/21/2017	<0.003	<0.003				<0.003	
2/22/2017				<0.003	<0.003		
2/23/2017			<0.003				
2/24/2017							<0.003
5/3/2017		<0.003					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		<0.003	<0.003			0.0004 (J)
6/30/2017			<0.003	<0.003			
7/5/2017					<0.003		
7/7/2017						<0.003	
7/10/2017	<0.003	<0.003					
7/11/2017							0.0006 (J)
10/10/2017							<0.003
3/29/2018			<0.003	<0.003			
3/30/2018	<0.003	<0.003			<0.003	<0.003	
4/2/2018							<0.003
9/19/2018							<0.003
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
8/20/2019							<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003	
3/19/2020		0.0017 (J)			<0.003	<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)			
8/27/2020							0.00048 (J)
9/22/2020							<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
2/10/2021	<0.003	<0.003	<0.003	<0.003			
2/11/2021					<0.003		
2/12/2021						<0.003	
3/1/2021							0.00048 (J)
3/2/2021		<0.003					
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003	
8/19/2021		<0.003					<0.003
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003	
2/8/2022				<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003				
8/31/2022	0.001 (J)	<0.003					<0.003
9/1/2022			<0.003	<0.003	<0.003	<0.003	
2/8/2023							<0.003
2/9/2023	<0.003	<0.003	0.0014 (J)	<0.003	<0.003	<0.003	
8/15/2023							<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/16/2023					0.0023 (J)	<0.003	
8/17/2023	<0.003	<0.003	<0.003	<0.003			
2/20/2024							<0.003
2/21/2024			<0.003	<0.003	<0.003	<0.003	
2/22/2024	<0.003	<0.003					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.003	<0.003				
6/7/2016	<0.003			<0.003	<0.003		
7/27/2016	<0.003	0.0005 (J)	<0.003	<0.003			
7/28/2016					<0.003		
9/16/2016	<0.003		<0.003				
9/19/2016		<0.003		<0.003	0.001 (J)		
11/2/2016				<0.003			
11/3/2016	<0.003	<0.003	<0.003		<0.003		
1/11/2017	<0.003	<0.003	<0.003				
1/13/2017				<0.003	<0.003		
3/1/2017		<0.003	<0.003				
3/2/2017	<0.003						
3/6/2017				<0.003	0.0005 (J)		
4/26/2017		<0.003	<0.003	<0.003	<0.003		
5/2/2017	<0.003						
6/28/2017		<0.003	<0.003				
6/29/2017	<0.003			<0.003	<0.003		
10/11/2017						0.0006 (J)	
10/12/2017							<0.003
11/20/2017						<0.003	<0.003
1/10/2018							<0.003
1/11/2018						<0.003	
2/19/2018							<0.003
2/20/2018						<0.003	
3/28/2018	<0.003	<0.003	<0.003				
3/29/2018				<0.003	<0.003		
4/3/2018						<0.003	<0.003
6/28/2018						<0.003	<0.003
8/7/2018						<0.003	<0.003
9/24/2018						<0.003	<0.003
3/5/2019	<0.003		<0.003	<0.003	0.0011 (J)		
3/6/2019		<0.003					
4/2/2019	<0.003				0.0011 (J)		
4/3/2019		<0.003	<0.003	<0.003			
8/21/2019						<0.003	<0.003
9/24/2019					0.0035		
9/25/2019	<0.003			<0.003			
9/26/2019		0.00056 (J)	<0.003				
2/11/2020	<0.003	<0.003	<0.003				
2/12/2020				<0.003	0.0015 (J)	<0.003	<0.003
3/24/2020	<0.003	<0.003	<0.003	<0.003	0.0017 (J)		<0.003
3/25/2020						0.0014 (J)	
9/23/2020	<0.003	<0.003	<0.003				
9/24/2020				<0.003	0.0047	<0.003	<0.003
2/9/2021		<0.003	<0.003	0.00032 (J)	0.0013 (J)		
2/10/2021						<0.003	<0.003
3/3/2021	<0.003	<0.003	0.00067 (J)	<0.003			
3/4/2021					0.0014 (J)	<0.003	<0.003
8/26/2021			<0.003			<0.003	
8/27/2021	<0.003	<0.003		<0.003			
9/1/2021					<0.003		
9/3/2021							<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/8/2022						<0.003	<0.003
2/9/2022	<0.003	<0.003	<0.003	<0.003	<0.003		
8/30/2022	<0.003	<0.003	<0.003		0.0046		
8/31/2022				<0.003		<0.003	<0.003
2/7/2023	0.0013 (J)	<0.003	<0.003	<0.003	<0.003	<0.003	
2/8/2023							<0.003
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/20/2024	<0.003	<0.003		<0.003	0.0013 (J)	<0.003	<0.003
2/23/2024			<0.003				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.003	
9/11/2007				<0.003	
3/20/2008				<0.003	
8/27/2008				<0.003	
3/3/2009				<0.003	
11/18/2009				<0.003	
3/3/2010				<0.003	
9/8/2010				<0.003	
3/10/2011				<0.003	
9/8/2011				<0.003	
3/5/2012				<0.003	
9/10/2012				<0.003	
2/6/2013				<0.003	
8/12/2013				<0.003	
2/5/2014				<0.003	
8/5/2014				<0.003	
2/4/2015				<0.003	
8/3/2015				<0.003	
2/16/2016				<0.003	
6/2/2016	<0.003	<0.003	<0.003		
6/9/2016					<0.003
7/26/2016	0.0003 (J)	<0.003	<0.003		
8/2/2016					<0.003
8/31/2016				<0.003	
9/14/2016	<0.003	<0.003	<0.003		
9/21/2016					<0.003
11/2/2016	<0.003	<0.003			
11/4/2016			<0.003		
11/7/2016					<0.003
11/28/2016				0.0014 (J)	
1/12/2017		<0.003	<0.003		
1/13/2017	<0.003				
1/19/2017					<0.003
2/22/2017				<0.003	<0.003
3/6/2017	<0.003				
3/7/2017		<0.003	<0.003		
5/1/2017	<0.003	<0.003			
5/2/2017			<0.003		
5/8/2017				<0.003	<0.003
6/27/2017		<0.003	<0.003		
6/29/2017	<0.003				
7/5/2017					<0.003
7/17/2017				<0.003	
10/16/2017				<0.003	
2/19/2018				<0.003	
3/29/2018	<0.003	<0.003	<0.003		<0.003
8/6/2018				<0.003	
2/25/2019				<0.003	
2/27/2019					<0.003
3/4/2019	<0.003	<0.003	<0.003		
4/3/2019	<0.003	<0.003	<0.003		
6/12/2019				<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
8/19/2019				<0.003	
9/24/2019		<0.003	<0.003		
9/25/2019	<0.003				
10/8/2019				<0.003	
2/12/2020	<0.003	<0.003	<0.003		
2/13/2020					<0.003
3/17/2020				<0.003	
3/20/2020					<0.003
3/24/2020		<0.003	<0.003		
3/25/2020	<0.003				
8/26/2020				0.00042 (J)	
9/22/2020	<0.003	<0.003	<0.003	0.00044 (J)	
9/24/2020					0.0013 (J)
2/8/2021		<0.003	<0.003		
2/9/2021	<0.003				
2/12/2021					<0.003
3/2/2021		<0.003	<0.003	<0.003	
3/3/2021	<0.003				<0.003
8/20/2021				<0.003	<0.003
8/26/2021	<0.003	<0.003	<0.003		
2/8/2022				<0.003	<0.003
2/10/2022		<0.003	<0.003		
2/11/2022	<0.003				
8/30/2022		<0.003	<0.003	<0.003	
8/31/2022	<0.003				
9/1/2022					<0.003
2/7/2023		<0.003		<0.003	
2/8/2023					<0.003
2/9/2023	<0.003		<0.003		
8/2/2023					<0.003
8/15/2023	<0.003	<0.003	<0.003	<0.003	
2/20/2024	0.00061 (J)	<0.003	<0.003	0.0026 (J)	
2/22/2024					<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0021	<0.005				<0.005
6/2/2016	<0.005				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	0.0016 (J)				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	0.0017 (J)			
12/15/2016				0.0023 (J)			
1/10/2017	<0.005						
1/11/2017		0.0017 (J)				<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0014 (J)	<0.005			<0.005	
3/3/2017				0.0016 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		0.0018 (J)	<0.005				
4/28/2017				0.002 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)		0.0007 (J)	0.0011 (J)
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				0.0013 (J)		<0.005	<0.005
3/29/2018		0.0017 (J)					
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					<0.005		
10/1/2018	<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005	<0.005
10/2/2018					<0.005		
2/26/2019	<0.005				<0.005		
2/27/2019		0.0015 (J)	<0.005	0.001 (J)		<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005				
3/29/2019	<0.005			0.00063 (J)			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.0014 (J)	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		0.0026 (J)	0.0005 (J)				
2/11/2020				0.0044 (J)			0.0041 (J)
2/12/2020	<0.005				0.0032 (J)	0.0038 (J)	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		0.00094 (J)	0.00078 (J)
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	0.00098 (J)		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)	0.0018 (J)
2/10/2022	0.0016 (J)						
2/11/2022					0.0014 (J)		
8/30/2022		<0.005		0.0027 (J)			
8/31/2022	<0.005		<0.005		<0.005	0.0028 (J)	<0.005
2/7/2023		<0.005	<0.005	<0.005			
2/8/2023	<0.005				<0.005	0.003 (J)	0.0024 (J)
8/15/2023	<0.005	<0.005	<0.005	<0.005		<0.005	
8/16/2023					<0.005		<0.005
2/20/2024		<0.005	<0.005	0.0019 (J)	<0.005	0.0027 (J)	0.0013 (J)
2/23/2024	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	
8/30/2016							<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	
11/8/2016					<0.005		
11/14/2016							<0.005
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		
2/23/2017			<0.005				
2/24/2017							<0.005
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
7/11/2017							<0.005
10/10/2017							0.0007 (J)
3/29/2018			0.0006 (J)	<0.005			
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
4/2/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
9/19/2018							0.00072 (J)
10/2/2018	<0.005	<0.005	<0.005	<0.005			
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	
4/1/2019			<0.005	<0.005	<0.005		
4/2/2019	<0.005	<0.005				<0.005	
8/20/2019							<0.005
9/25/2019	<0.005	<0.005					
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
10/8/2019							<0.005
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	
3/17/2020							<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			
8/27/2020							<0.005
9/22/2020							<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/1/2021							<0.005
3/2/2021		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	
8/19/2021		<0.005					<0.005
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0027 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					<0.005
9/1/2022			<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005
2/9/2023	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	<0.005	
8/15/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			
2/20/2024							<0.005
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.005	<0.005				
6/7/2016	<0.005			<0.005	<0.005		
7/27/2016	<0.005	<0.005	<0.005	<0.005			
7/28/2016					<0.005		
9/16/2016	<0.005		<0.005				
9/19/2016		<0.005		<0.005	<0.005		
11/2/2016				<0.005			
11/3/2016	<0.005	<0.005	<0.005		<0.005		
1/11/2017	<0.005	<0.005	<0.005				
1/13/2017				<0.005	<0.005		
3/1/2017		<0.005	<0.005				
3/2/2017	<0.005						
3/6/2017				<0.005	0.0017 (J)		
4/26/2017		<0.005	<0.005	<0.005	<0.005		
5/2/2017	<0.005						
6/28/2017		<0.005	<0.005				
6/29/2017	<0.005			<0.005	<0.005		
10/11/2017						0.0009 (J)	
10/12/2017							<0.005
11/20/2017						<0.005	<0.005
1/10/2018							<0.005
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	0.00061 (J)				
3/29/2018				<0.005	0.0015 (J)		
4/3/2018						<0.005	<0.005
6/5/2018					0.0013 (J)		
6/6/2018				<0.005			
6/7/2018		0.00066 (J)					
6/11/2018	<0.005		<0.005				
6/28/2018						<0.005	<0.005
8/7/2018						<0.005	<0.005
9/24/2018						<0.005	<0.005
9/25/2018	<0.005	<0.005	<0.005	<0.005	0.0022 (J)		
3/5/2019	<0.005		<0.005	<0.005	0.0013 (J)		
3/6/2019		<0.005					
4/2/2019	<0.005				0.00096 (J)		
4/3/2019		<0.005	<0.005	<0.005			
8/21/2019						0.00058 (J)	<0.005
9/24/2019					0.0026 (J)		
9/25/2019	<0.005			<0.005			
9/26/2019		<0.005	<0.005				
10/9/2019						0.00063 (J)	<0.005
2/11/2020	0.0022 (J)	0.0014 (J)	0.0026 (J)				
2/12/2020				<0.005	0.0025 (J)	0.00058 (J)	0.0034 (J)
3/24/2020	<0.005	<0.005	<0.005	<0.005	0.0013 (J)		<0.005
3/25/2020						0.0012 (J)	
9/23/2020	<0.005	<0.005	<0.005				
9/24/2020				<0.005	0.0014 (J)	<0.005	<0.005
2/9/2021		<0.005	<0.005	<0.005	0.001 (J)		
2/10/2021						<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.005	<0.005	<0.005	<0.005			
3/4/2021					0.00078 (J)	<0.005	<0.005
8/26/2021			<0.005			<0.005	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					<0.005		
9/3/2021							<0.005
2/8/2022						0.0034 (J)	0.003 (J)
2/9/2022	0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)		
8/30/2022	<0.005	<0.005	<0.005		0.0022 (J)		
8/31/2022				<0.005		0.0029 (J)	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	0.0028 (J)	0.0029 (J)	
2/8/2023							<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005		<0.005	<0.005	0.002 (J)	0.0012 (J)
2/23/2024			<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.005	
9/11/2007				<0.005	
3/20/2008				<0.005	
8/27/2008				<0.005	
3/3/2009				<0.005	
11/18/2009				<0.005	
3/3/2010				<0.005	
9/8/2010				<0.005	
3/10/2011				<0.005	
9/8/2011				<0.005	
3/5/2012				<0.005	
9/10/2012				<0.005	
2/6/2013				<0.005	
8/12/2013				<0.005	
2/5/2014				<0.005	
8/5/2014				<0.005	
2/4/2015				<0.005	
8/3/2015				<0.005	
2/16/2016				<0.005	
6/2/2016	<0.005	0.00071 (J)	<0.005		
6/9/2016					<0.005
7/26/2016	<0.005	0.001 (J)	<0.005		
8/2/2016					<0.005
8/31/2016				<0.005	
9/14/2016	<0.005	<0.005	<0.005		
9/21/2016					<0.005
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				<0.005	
1/12/2017		<0.005	<0.005		
1/13/2017	<0.005				
1/19/2017					<0.005
2/22/2017				<0.005	<0.005
3/6/2017	<0.005				
3/7/2017		0.0012 (J)	<0.005		
5/1/2017	<0.005	<0.005			
5/2/2017			<0.005		
5/8/2017				<0.005	<0.005
6/27/2017		0.0019 (J)	<0.005		
6/29/2017	<0.005				
7/5/2017					<0.005
7/17/2017				<0.005	
10/16/2017				<0.005	
2/19/2018				<0.005	
3/29/2018	<0.005	0.0006 (J)	<0.005		<0.005
6/6/2018		0.0013 (J)			
6/7/2018	0.00059 (J)		<0.005		
6/11/2018					<0.005
8/6/2018				<0.005	
9/26/2018	<0.005	0.0014 (J)	<0.005		
10/2/2018					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/25/2019				<0.005	
2/27/2019					<0.005
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
4/3/2019	<0.005	<0.005	<0.005		
6/12/2019				0.00038 (J)	
8/19/2019				0.00095 (J)	
9/24/2019		0.00043 (J)	<0.005		
9/25/2019	<0.005				<0.005
10/8/2019				<0.005	
2/12/2020	<0.005	0.0046 (J)	0.002 (J)		
2/13/2020					<0.005
3/17/2020				<0.005	
3/20/2020					<0.005
3/24/2020		0.00065 (J)	<0.005		
3/25/2020	<0.005				
8/26/2020				<0.005	
9/22/2020	<0.005	0.001 (J)	<0.005	<0.005	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					<0.005
3/2/2021		<0.005	<0.005	<0.005	
3/3/2021	<0.005				<0.005
8/20/2021				<0.005	<0.005
8/26/2021	<0.005	0.0016 (J)	<0.005		
2/8/2022				0.0033 (J)	0.0033 (J)
2/10/2022		0.004 (J)	0.0016 (J)		
2/11/2022	0.0014 (J)				
8/30/2022		0.0031 (J)	<0.005	0.0024 (J)	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		0.003 (J)		<0.005	
2/8/2023					<0.005
2/9/2023	<0.005		<0.005		
8/2/2023					<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	
2/20/2024	<0.005	0.003 (J)	<0.005	0.0015 (J)	
2/22/2024					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.008	0.012				0.0038
6/2/2016	0.0081				0.0064	0.01	
7/25/2016			0.0091 (J)		0.0071 (J)		0.0031 (J)
7/26/2016	0.0082 (J)	0.006 (J)				0.0088 (J)	
9/13/2016		0.0084 (J)	0.008 (J)				
9/14/2016				0.0037 (J)			0.0027 (J)
9/15/2016	0.0087 (J)					0.009 (J)	
9/19/2016					0.0069 (J)		
11/1/2016		0.0062 (J)			0.007 (J)	0.0079 (J)	0.0027 (J)
11/2/2016	0.0082 (J)						
11/4/2016			0.0067 (J)	0.0059 (J)			
12/15/2016				0.0056 (J)			
1/10/2017	0.0086 (J)						
1/11/2017		0.0069 (J)				0.0075 (J)	0.0036 (J)
1/16/2017			0.0096 (J)	0.0049 (J)	0.0071 (J)		
2/21/2017					0.0077 (J)		
3/1/2017							0.0036 (J)
3/2/2017		0.0071 (J)	0.0112			0.009 (J)	
3/3/2017				0.0046 (J)			
3/8/2017	0.0088 (J)						
4/26/2017	0.0085 (J)				0.0074 (J)	0.0078 (J)	0.0038 (J)
4/27/2017		0.0064 (J)	0.0106				
4/28/2017				0.0039 (J)			
5/26/2017				0.0034 (J)			
6/27/2017		0.0054 (J)	0.0092 (J)				
6/28/2017				0.003 (J)		0.0071 (J)	0.004 (J)
6/30/2017	0.0081 (J)				0.0076 (J)		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
6/5/2018		0.0069 (J)					
6/6/2018			0.0082 (J)				
6/7/2018				0.0037 (J)		0.0068 (J)	
6/8/2018	0.007 (J)						0.0034 (J)
6/11/2018					0.007 (J)		
10/1/2018	0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)	0.0034 (J)
10/2/2018					0.0069 (J)		
2/26/2019	0.0067 (J)				0.007 (J)		
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)	0.0034 (J)
3/28/2019		0.0082 (J)	0.0082 (J)				
3/29/2019	0.0066 (J)			0.0039 (J)			
4/1/2019					0.0072 (J)	0.0064 (J)	0.003 (J)
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
9/25/2019	0.0071 (J)				0.0066 (J)	0.0059 (J)	0.005 (J)
2/10/2020		0.0066 (J)	0.0091 (J)				
2/11/2020				0.0036 (J)			0.0031 (J)
2/12/2020	0.007 (J)				0.0073 (J)	0.0062 (J)	
3/18/2020	0.0076 (J)		0.0084 (J)				
3/19/2020		0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)	0.0029 (J)
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)	0.0039 (J)
9/24/2020					0.0062 (J)		
9/25/2020	0.0073 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.0078 (J)			0.0032 (J)		0.0059 (J)	0.0029 (J)
2/11/2021					0.0077 (J)		
2/12/2021		0.0057 (J)	0.009 (J)				
3/1/2021					0.007		
3/2/2021	0.0076						
3/3/2021		0.0068	0.0094	0.0041 (J)		0.0064	0.0031 (J)
8/19/2021	0.0077	0.0065	0.0079		0.0071	0.0052	
8/27/2021				0.003 (J)			0.0039 (J)
2/9/2022		0.0067	0.0088	0.0029 (J)		0.0051	0.0031 (J)
2/10/2022	0.0088						
2/11/2022					0.0077		
8/30/2022		0.0066		0.003 (J)			
8/31/2022	0.0075		0.0074		0.0068	0.0048 (J)	0.003 (J)
2/7/2023		0.14	0.21	0.0026 (J)			
2/8/2023	0.0089				0.0066	0.0048 (J)	0.0029 (J)
8/15/2023	0.0079	0.0059	0.0078	0.0031 (J)		0.0046 (J)	
8/16/2023					0.0066		0.0037 (J)
2/20/2024		0.0062	0.004 (J)	0.0044 (J)	0.0064	0.0045 (J)	0.0032 (J)
2/23/2024	0.0096						

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	
8/30/2016							0.0413
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	
11/8/2016					0.0886		
11/14/2016							0.0383
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		
2/23/2017			0.0728				
2/24/2017							0.0351
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0251
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
7/11/2017							0.0233
10/10/2017							0.0207
3/29/2018			0.062	0.097			
3/30/2018	0.063	0.026			0.087	0.2	
4/2/2018							0.022
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
9/19/2018							0.023
10/2/2018	0.066	0.026	0.062	0.1			
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	
4/1/2019			0.066	0.099	0.088		
4/2/2019	0.065	0.027				0.2	
8/20/2019							0.024
9/25/2019	0.063	0.026					
9/26/2019			0.065	0.099	0.087	0.18	
10/8/2019							0.025
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	
3/17/2020							0.035
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			
8/27/2020							0.027
9/22/2020							0.026
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	
3/1/2021							0.029
3/2/2021		0.031					

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	0.064		0.08	0.075	0.077	0.25	
8/19/2021		0.023					0.029
8/20/2021	0.063		0.083	0.082	0.079	0.24	
2/8/2022				0.068	0.083	0.2	0.03
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					0.029
9/1/2022			0.076	0.049	0.068	0.2	
2/8/2023							0.031
2/9/2023	0.058	0.028	0.076	0.049	0.07	0.22	
8/15/2023							0.032
8/16/2023					0.066	0.21	
8/17/2023	0.061	0.025	0.069	0.051			
2/20/2024							0.031
2/21/2024			0.06	0.047	0.062	0.21	
2/22/2024	0.057	0.025					

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		0.028	0.019				
6/7/2016	0.012			0.014	0.0058		
7/27/2016	0.0126	0.0294	0.0167	0.0141			
7/28/2016					0.0068 (J)		
9/16/2016	0.0127		0.0168				
9/19/2016		0.0247		0.0155	0.0071 (J)		
11/2/2016				0.0157			
11/3/2016	0.0128	0.0248	0.0159		0.0092 (J)		
1/11/2017	0.0142	0.0266	0.0162				
1/13/2017				0.0158	0.0105		
3/1/2017		0.0275	0.0195				
3/2/2017	0.0155						
3/6/2017				0.0163	0.0105		
4/26/2017		0.024	0.0182	0.0177	0.011		
5/2/2017	0.0138						
6/28/2017		0.0237	0.018				
6/29/2017	0.0128			0.017	0.0109		
10/11/2017						0.0092 (J)	
10/12/2017							0.0328
11/20/2017						0.0081 (J)	0.0671
1/10/2018							0.0656
1/11/2018						0.0077 (J)	
2/19/2018							0.0598
2/20/2018						<0.01	
3/28/2018	0.014	0.024	0.021				
3/29/2018				0.014	<0.01		
4/3/2018						<0.01	0.045
6/5/2018					0.011		
6/6/2018				0.015			
6/7/2018		0.023					
6/11/2018	0.013		0.019				
6/28/2018						0.0078 (J)	0.047
8/7/2018						0.0078 (J)	0.048
9/24/2018						0.0071 (J)	0.042
9/25/2018	0.014	0.023	0.019	0.015	0.011		
3/5/2019	0.015		0.02	0.016	0.011		
3/6/2019		0.024					
4/2/2019	0.016				0.011		
4/3/2019		0.025	0.017	0.018			
8/21/2019						0.015	0.035
9/24/2019					0.011		
9/25/2019	0.015			0.014			
9/26/2019		0.021	0.017				
10/9/2019						0.013	0.036
2/11/2020	0.015	0.022	0.019				
2/12/2020				0.014	0.011	0.011	0.035
3/24/2020	0.015	0.021	0.017	0.015	0.011		0.033
3/25/2020						0.014	
9/23/2020	0.015	0.021	0.016				
9/24/2020				0.015	0.01	0.016	0.028
2/9/2021		0.023	0.017	0.015	0.011		
2/10/2021						0.027	0.032

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	0.017	0.023	0.017	0.015			
3/4/2021					0.011	0.028	0.032
8/26/2021			0.015			0.038	
8/27/2021	0.016	0.02		0.013			
9/1/2021					0.0099		
9/3/2021							0.035
2/8/2022						0.041	0.039
2/9/2022	0.017	0.021	0.014	0.014	0.011		
8/30/2022	0.017	0.017	0.012		0.0085		
8/31/2022				0.011		0.035	0.035
2/7/2023	0.017	0.019	0.012	0.014	0.01	0.03	
2/8/2023							0.037
8/15/2023	0.016	0.02	0.012	0.012	0.0075	0.031	0.034
2/20/2024	0.017	0.02		0.013	0.0065	0.029	0.033
2/23/2024			0.013				

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				0.032	
9/11/2007				0.017	
3/20/2008				0.025	
8/27/2008				0.041	
3/3/2009				0.053	
11/18/2009				0.05	
3/3/2010				0.061	
9/8/2010				0.071	
3/10/2011				0.057	
9/8/2011				0.057	
3/5/2012				0.061	
9/10/2012				0.055	
2/6/2013				0.061	
8/12/2013				0.055	
2/5/2014				0.063	
8/5/2014				0.038	
2/4/2015				0.039	
8/3/2015				0.031	
2/16/2016				0.045	
6/2/2016	0.013	0.0084	0.019		
6/9/2016					0.082
7/26/2016	0.0158	0.01	0.0179		
8/2/2016					0.0781
8/31/2016				0.0542	
9/14/2016	0.0143	0.0085 (J)	0.0181		
9/21/2016					0.0782
11/2/2016	0.0148	0.0091 (J)			
11/4/2016			0.0165		
11/7/2016					0.0712
11/28/2016				0.0529	
1/12/2017		0.0089 (J)	0.0199		
1/13/2017	0.0146				
1/19/2017					0.0689
2/22/2017				0.0607	0.0741
3/6/2017	0.0141				
3/7/2017		0.009 (J)	0.0196		
5/1/2017	0.0149	0.0083 (J)			
5/2/2017			0.0202		
5/8/2017				0.065	0.0725
6/27/2017		0.0074 (J)	0.0184		
6/29/2017	0.0154				
7/5/2017					0.0677
7/17/2017				0.06	
10/16/2017				0.0542	
2/19/2018				0.0533	
3/29/2018	0.014	<0.01	0.021		0.055
6/6/2018		0.008 (J)			
6/7/2018	0.014		0.019		
6/11/2018					0.068
8/6/2018				0.044	
9/26/2018	0.02	0.0075 (J)	0.019		
10/2/2018					0.067

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/25/2019				0.045	
2/27/2019					0.067
3/4/2019	0.016	0.0077 (J)	0.019		
4/1/2019					0.063
4/3/2019	0.017	0.0087 (J)	0.023		
6/12/2019				0.063	
8/19/2019				0.065	
9/24/2019		0.0075 (J)	0.019		
9/25/2019	0.015				0.061
10/8/2019				0.058	
2/12/2020	0.012	0.0079 (J)	0.021		
2/13/2020					0.053
3/17/2020				0.047	
3/20/2020					0.057
3/24/2020		0.0076 (J)	0.021		
3/25/2020	0.016				
8/26/2020				0.044	
9/22/2020	0.013	0.0076 (J)	0.019	0.045	
9/24/2020					0.056
2/8/2021		0.0079 (J)	0.02		
2/9/2021	0.013				
2/12/2021					0.21
3/2/2021		0.014	0.019	0.039	
3/3/2021	0.014				0.059
8/20/2021				0.036	0.057
8/26/2021	0.012	0.0092	0.019		
2/8/2022				0.037	0.057
2/10/2022		0.0084	0.02		
2/11/2022	0.013				
8/30/2022		0.0079	0.017	0.031	
8/31/2022	0.013				
9/1/2022					0.057
2/7/2023		0.0075		0.034	
2/8/2023					0.098
2/9/2023	0.014		0.019		
8/2/2023					0.1
8/15/2023	0.011	0.0074	0.018	0.03	
2/20/2024	0.014	0.0078	0.019	0.035	
2/22/2024					0.081

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	0.0002 (J)	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	0.0002 (J)					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	0.0002 (J)						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	0.0002 (J)						
1/11/2017		<0.0005				<0.0005	<0.0005
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<0.0005			
3/8/2017	0.0002 (J)						
4/26/2017	0.0002 (J)				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	0.0002 (J)				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	0.00016 (J)				7.2E-05 (J)		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	0.00017 (J)			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	0.00018 (J)				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	0.00019 (J)				<0.0005	<0.0005	
3/18/2020	0.00021 (J)		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	5.9E-05 (J)
9/24/2020					<0.0005		
9/25/2020	0.00018 (J)						
2/10/2021	0.00019 (J)			<0.0005		<0.0005	<0.0005
2/11/2021					4.7E-05 (J)		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	0.00018 (J)						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	0.00025 (J)						
2/11/2022					<0.0005		
8/30/2022		<0.0005		<0.0005			
8/31/2022	0.0002 (J)		<0.0005		<0.0005	<0.0005	<0.0005
2/7/2023		0.0011	0.00054	<0.0005			
2/8/2023	0.00022 (J)				<0.0005	<0.0005	<0.0005
8/15/2023	0.00018 (J)	<0.0005	<0.0005	<0.0005		<0.0005	
8/16/2023					<0.0005		<0.0005
2/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024	0.00024 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					<0.0005	<0.0005	
8/1/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	
8/30/2016							<0.0005
9/20/2016	<0.0005	0.0001 (J)	9E-05 (J)	<0.0005			
9/21/2016					<0.0005	<0.0005	
11/7/2016	<0.0005	0.0001 (J)	0.0001 (J)	<0.0005		<0.0005	
11/8/2016					<0.0005		
11/14/2016							<0.0005
1/18/2017	<0.0005	0.0002 (J)	0.0002 (J)		<0.0005	<0.0005	
1/19/2017				<0.0005			
2/21/2017	<0.0005	0.0002 (J)				<0.0005	
2/22/2017				<0.0005	<0.0005		
2/23/2017			0.0002 (J)				
2/24/2017							<0.0005
5/3/2017		0.0002 (J)					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		0.0002 (J)	<0.0005			7E-05 (J)
6/30/2017			0.0002 (J)	<0.0005			
7/5/2017					<0.0005		
7/7/2017						<0.0005	
7/10/2017	<0.0005	0.0002 (J)					
7/11/2017							<0.0005
10/10/2017							<0.0005
3/29/2018			<0.0005	<0.0005			
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
4/2/2018							<0.0005
9/19/2018							5.7E-05 (J)
2/27/2019	<0.0005	0.00018 (J)	0.00022 (J)	<0.0005	<0.0005	<0.0005	
4/1/2019			0.00022 (J)	<0.0005	<0.0005		
4/2/2019	<0.0005	0.00015 (J)				<0.0005	
8/20/2019							<0.0005
9/25/2019	<0.0005	0.00011 (J)					
9/26/2019			0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	0.00015 (J)	0.00021 (J)	<0.0005	<0.0005	<0.0005	
3/19/2020		0.00012 (J)			<0.0005	<0.0005	
3/20/2020	<0.0005		0.00023 (J)	<0.0005			
8/27/2020							4.7E-05 (J)
9/22/2020							<0.0005
9/24/2020	<0.0005	8.5E-05 (J)	0.00019 (J)	<0.0005	<0.0005	<0.0005	
2/10/2021	<0.0005	0.00013 (J)	0.00014 (J)	6.6E-05 (J)			
2/11/2021					<0.0005		
2/12/2021						<0.0005	
3/1/2021							5.5E-05 (J)
3/2/2021		0.00016 (J)					
3/3/2021	<0.0005		0.00013 (J)	<0.0005	<0.0005	<0.0005	
8/19/2021		8.2E-05 (J)					<0.0005
8/20/2021	<0.0005		8.6E-05 (J)	0.00011 (J)	<0.0005	<0.0005	
2/8/2022				<0.0005	<0.0005	<0.0005	5.6E-05 (J)
2/10/2022	<0.0005	9.3E-05 (J)	0.00013 (J)				
8/31/2022	<0.0005	7.4E-05 (J)					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
9/1/2022			0.00012 (J)	<0.0005	<0.0005	<0.0005	
2/8/2023							<0.0005
2/9/2023	<0.0005	6.8E-05 (J)	0.0001 (J)	<0.0005	<0.0005	<0.0005	
8/15/2023							<0.0005
8/16/2023					<0.0005	<0.0005	
8/17/2023	<0.0005	<0.0005	9.5E-05 (J)	<0.0005			
2/20/2024							<0.0005
2/21/2024			0.00011 (J)	<0.0005	<0.0005	<0.0005	
2/22/2024	<0.0005	<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.0005	<0.0005				
6/7/2016	<0.0005			<0.0005	<0.0005		
7/27/2016	<0.0005	<0.0005	<0.0005	<0.0005			
7/28/2016					<0.0005		
9/16/2016	<0.0005		<0.0005				
9/19/2016		<0.0005		<0.0005	<0.0005		
11/2/2016				<0.0005			
11/3/2016	<0.0005	<0.0005	<0.0005		<0.0005		
1/11/2017	<0.0005	<0.0005	<0.0005				
1/13/2017				<0.0005	<0.0005		
3/1/2017		<0.0005	<0.0005				
3/2/2017	8E-05 (J)						
3/6/2017				<0.0005	<0.0005		
4/26/2017		<0.0005	<0.0005	<0.0005	<0.0005		
5/2/2017	<0.0005						
6/28/2017		<0.0005	<0.0005				
6/29/2017	<0.0005			<0.0005	<0.0005		
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	
3/28/2018	<0.0005	<0.0005	<0.0005				
3/29/2018				<0.0005	<0.0005		
4/3/2018						<0.0005	<0.0005
6/5/2018					<0.0005		
6/6/2018				8E-05 (J)			
6/7/2018		<0.0005					
6/11/2018	9E-05 (J)		5.7E-05 (J)				
6/28/2018						<0.0005	0.00029 (J)
8/7/2018						<0.0005	0.00024 (J)
9/24/2018						<0.0005	0.00019 (J)
9/25/2018	8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005		
3/5/2019	9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.0005		
3/6/2019		<0.0005					
4/2/2019	9E-05 (J)				<0.0005		
4/3/2019		<0.0005	7.5E-05 (J)	6.4E-05 (J)			
8/21/2019						<0.0005	0.0002 (J)
9/24/2019					<0.0005		
9/25/2019	8.1E-05 (J)			<0.0005			
9/26/2019		<0.0005	8.4E-05 (J)				
10/9/2019						<0.0005	0.0002 (J)
2/11/2020	7.8E-05 (J)	<0.0005	7.6E-05 (J)				
2/12/2020				7.8E-05 (J)	<0.0005	<0.0005	0.00018 (J)
3/24/2020	8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005		0.00022 (J)
3/25/2020						<0.0005	
9/23/2020	8.1E-05 (J)	<0.0005	8.8E-05 (J)				
9/24/2020				8.3E-05 (J)	<0.0005	<0.0005	0.0002 (J)
2/9/2021		<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005		
2/10/2021						5.1E-05 (J)	0.00021 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)			
3/4/2021					<0.0005	<0.0005	0.00021 (J)
8/26/2021			9.3E-05 (J)			<0.0005	
8/27/2021	0.0001 (J)	<0.0005		5.9E-05 (J)			
9/1/2021					<0.0005		
9/3/2021							0.00024 (J)
2/8/2022						<0.0005	0.00028 (J)
2/9/2022	0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)	<0.0005		
8/30/2022	0.0001 (J)	<0.0005	8.2E-05 (J)		<0.0005		
8/31/2022				<0.0005		<0.0005	0.00025 (J)
2/7/2023	9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)	<0.0005	<0.0005	
2/8/2023							0.00026 (J)
8/15/2023	<0.0005	<0.0005	5.7E-05 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	0.0001 (J)	<0.0005		<0.0005	<0.0005	<0.0005	0.00025 (J)
2/23/2024			<0.0005				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.0005	
9/11/2007				<0.0005	
3/20/2008				<0.0005	
8/27/2008				<0.0005	
3/3/2009				<0.0005	
11/18/2009				<0.0005	
3/3/2010				<0.0005	
9/8/2010				<0.0005	
3/10/2011				<0.0005	
9/8/2011				<0.0005	
3/5/2012				<0.0005	
9/10/2012				<0.0005	
2/6/2013				<0.0005	
8/12/2013				<0.0005	
2/5/2014				<0.0005	
8/5/2014				<0.0005	
2/4/2015				<0.0005	
8/3/2015				<0.0005	
2/16/2016				<0.0005	
6/2/2016	<0.0005	<0.0005	<0.0005		
6/9/2016					<0.0005
7/26/2016	<0.0005	<0.0005	<0.0005		
8/2/2016					<0.0005
8/31/2016				<0.0005	
9/14/2016	<0.0005	<0.0005	<0.0005		
9/21/2016					<0.0005
11/2/2016	<0.0005	<0.0005			
11/4/2016			<0.0005		
11/7/2016					<0.0005
11/28/2016				<0.0005	
1/12/2017		<0.0005	<0.0005		
1/13/2017	<0.0005				
1/19/2017					<0.0005
2/22/2017				<0.0005	<0.0005
3/6/2017	<0.0005				
3/7/2017		<0.0005	<0.0005		
5/1/2017	<0.0005	<0.0005			
5/2/2017			<0.0005		
5/8/2017				<0.0005	<0.0005
6/27/2017		<0.0005	<0.0005		
6/29/2017	<0.0005				
7/5/2017					<0.0005
7/17/2017				<0.0005	
10/16/2017				<0.0005	
2/19/2018				<0.0005	
3/29/2018	<0.0005	<0.0005	<0.0005		<0.0005
6/6/2018		<0.0005			
6/7/2018	<0.0005		<0.0005		
8/6/2018				<0.0005	
9/26/2018	<0.0005	<0.0005	<0.0005		
2/25/2019				<0.0005	
2/27/2019					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
3/4/2019	<0.0005	<0.0005	<0.0005		
4/1/2019					<0.0005
4/3/2019	<0.0005	<0.0005	<0.0005		
6/12/2019				<0.0005	
8/19/2019				<0.0005	
9/24/2019		<0.0005	<0.0005		
9/25/2019	<0.0005				<0.0005
10/8/2019				<0.0005	
2/12/2020	<0.0005	<0.0005	<0.0005		
2/13/2020					<0.0005
3/17/2020				<0.0005	
3/20/2020					<0.0005
3/24/2020		<0.0005	<0.0005		
3/25/2020	<0.0005				
8/26/2020				<0.0005	
9/22/2020	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020					<0.0005
2/8/2021		<0.0005	<0.0005		
2/9/2021	<0.0005				
2/12/2021					<0.0005
3/2/2021		<0.0005	<0.0005	<0.0005	
3/3/2021	<0.0005				<0.0005
8/20/2021				<0.0005	<0.0005
8/26/2021	<0.0005	<0.0005	<0.0005		
2/8/2022				<0.0005	<0.0005
2/10/2022		<0.0005	<0.0005		
2/11/2022	<0.0005				
8/30/2022		<0.0005	<0.0005	<0.0005	
8/31/2022	<0.0005				
9/1/2022					<0.0005
2/7/2023		<0.0005		<0.0005	
2/8/2023					<0.0005
2/9/2023	<0.0005		<0.0005		
8/2/2023					<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	
2/22/2024					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.04	<0.04				<0.04
6/2/2016	<0.04				<0.04	<0.04	
7/25/2016			<0.04		<0.04		<0.04
7/26/2016	0.0177 (J)	0.0055 (J)				0.0097 (J)	
9/13/2016		<0.04	<0.04				
9/14/2016				<0.04			<0.04
9/15/2016	0.0214 (J)					0.0102 (J)	
9/19/2016					<0.04		
11/1/2016		0.0086 (J)			<0.04	<0.04	<0.04
11/2/2016	<0.04						
11/4/2016			<0.04	<0.04			
12/15/2016				0.0107 (J)			
1/10/2017	0.0198 (J)						
1/11/2017		0.0074 (J)				<0.04	<0.04
1/16/2017			<0.04	<0.04	<0.04		
2/21/2017					<0.04		
3/1/2017							<0.04
3/2/2017		0.008 (J)	<0.04			0.0084 (J)	
3/3/2017				<0.04			
3/8/2017	0.0189 (J)						
4/26/2017	0.0161 (J)				<0.04	<0.04	<0.04
4/27/2017		0.0066 (J)	<0.04				
4/28/2017				<0.04			
5/26/2017				<0.04			
6/27/2017		0.0087 (J)	0.006 (J)				
6/28/2017				<0.04		<0.04	<0.04
6/30/2017	0.0173 (J)				<0.04		
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04			
10/4/2017					<0.04	<0.04	<0.04
10/5/2017	0.0173 (J)						
6/5/2018		0.0052 (J)					
6/6/2018			<0.04				
6/7/2018				<0.04		0.004 (J)	
6/8/2018	0.013 (J)						<0.04
6/11/2018					0.014 (J)		
10/1/2018	0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04	<0.04
10/2/2018					<0.04		
3/28/2019		0.005 (J)	<0.04				
3/29/2019	0.014 (J)			0.0065 (J)			
4/1/2019					<0.04	<0.04	<0.04
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)			
9/25/2019	0.018 (J)				<0.04	0.0054 (J)	<0.04
3/18/2020	0.02 (J)		0.0087 (J)				
3/19/2020		0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)	0.0053 (J)
9/23/2020		<0.04	<0.04	<0.04		0.012 (J)	0.0073 (J)
9/24/2020					0.0075 (J)		
9/25/2020	0.02 (J)						
3/1/2021					<0.04		
3/2/2021	0.017 (J)						
3/3/2021		<0.04	<0.04	<0.04		<0.04	<0.04
8/19/2021	0.018 (J)	<0.04	<0.04		<0.04	<0.04	
8/27/2021				<0.04			<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		<0.04	<0.04	<0.04		0.01 (J)	<0.04
2/10/2022	0.02 (J)						
2/11/2022					<0.04		
8/30/2022		<0.04		<0.04			
8/31/2022	0.015 (J)		<0.04		<0.04	<0.04	<0.04
2/7/2023		<0.04	<0.04	<0.04			
2/8/2023	0.015 (J)				<0.04	<0.04	<0.04
8/15/2023	0.017 (J)	<0.04	0.0094 (J)	<0.04		<0.04	
8/16/2023					<0.04		<0.04
2/20/2024		0.015 (J)	0.014 (J)	<0.04	<0.04	<0.04	<0.04
2/23/2024	0.037 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	
8/30/2016							0.0166 (J)
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	
11/7/2016	0.852	0.621	1.91	1.35		2.49	
11/8/2016					2.44		
11/14/2016							0.0166 (J)
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		
2/23/2017			1.76				
2/24/2017							0.0145 (J)
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.0141 (J)
6/30/2017			2.28	1.47			
7/5/2017					2.7		
7/7/2017						3.01	
7/10/2017	0.855	0.58					
7/11/2017							0.0131 (J)
10/5/2017					2.53		
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					0.0124 (J)
4/2/2018							0.013 (J)
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
9/19/2018							0.012 (J)
10/2/2018	0.93	0.62	1.9	1.4			
10/3/2018					2.3	2.4	
3/27/2019							0.013 (J)
4/1/2019			2.4	1.4	2.7		
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					
9/26/2019			1.9	1.5	2.8	2.5	
10/8/2019							0.012 (J)
3/17/2020							0.023 (J)
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			
9/22/2020							0.0076 (J)
9/24/2020	0.76	0.74	2.3	1.3	2.1	2.6	
3/1/2021							0.013 (J)
3/2/2021		0.57					
3/3/2021	0.69		2	1.2	1.8	2.3	
8/19/2021		0.71					0.011 (J)
8/20/2021	0.72		2.5	1.2	2.3	2.5	
2/8/2022				1.1	2.4	2.4	0.015 (J)
2/10/2022	0.79	0.79	2.5				

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	0.64	0.7					0.0091 (J)
9/1/2022			2.3	1	1.8	2.2	
2/8/2023							0.011 (J)
2/9/2023	0.75	0.74	2.2	1	1.8	2.3	
8/15/2023							<0.04
8/16/2023					1.7	2.1	
8/17/2023	0.73	0.72	2.1	0.95			
2/20/2024							0.023 (J)
2/21/2024			1.8	0.91	1.6	2.3	
2/22/2024	0.77	0.78					

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.04	<0.04				
6/7/2016	<0.04			<0.04	<0.04		
7/27/2016	0.008 (J)	<0.04	0.0059 (J)	<0.04			
7/28/2016					<0.04		
9/16/2016	0.0086 (J)		0.0079 (J)				
9/19/2016		<0.04		<0.04	<0.04		
11/2/2016				<0.04			
11/3/2016	0.0077 (J)	<0.04	0.0082 (J)		<0.04		
1/11/2017	0.0092 (J)	<0.04	0.0096 (J)				
1/13/2017				<0.04	<0.04		
3/1/2017		<0.04	<0.04				
3/2/2017	0.0095 (J)						
3/6/2017				<0.04	<0.04		
4/26/2017		<0.04	0.0091 (J)	<0.04	<0.04		
5/2/2017	<0.04						
6/28/2017		<0.04	0.0079 (J)				
6/29/2017	0.0074 (J)			<0.04	<0.04		
10/3/2017					<0.04		
10/4/2017	0.0077 (J)		0.009 (J)	<0.04			
10/5/2017		<0.04					
10/11/2017						0.0135 (J)	
10/12/2017							0.0401
11/20/2017						0.0251 (J)	0.156
1/10/2018							0.15
1/11/2018						0.0255 (J)	
2/19/2018							0.146
2/20/2018						<0.04	
4/3/2018						0.033 (J)	0.12
6/5/2018					0.0092 (J)		
6/6/2018				0.0049 (J)			
6/7/2018		<0.04					
6/11/2018	0.01 (J)		0.0093 (J)				
6/28/2018						0.053	0.16
8/7/2018						0.024 (J)	0.12
9/24/2018						0.028 (J)	0.099
9/25/2018	0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)		
3/26/2019							0.096
3/27/2019						0.017 (J)	
4/2/2019	0.0066 (J)				0.011 (J)		
4/3/2019		<0.04	0.0053 (J)	<0.04			
9/24/2019					0.018 (J)		
9/25/2019	0.0081 (J)			<0.04			
9/26/2019		0.0062 (J)	0.0072 (J)				
10/9/2019						0.017 (J)	0.079
3/24/2020	0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)		0.088 (J)
3/25/2020						0.043 (J)	
9/23/2020	0.0066 (J)	0.021 (J)	0.006 (J)				
9/24/2020				0.0094 (J)	0.013 (J)	0.037 (J)	0.087 (J)
3/3/2021	0.01 (J)	<0.04	0.0094 (J)	<0.04			
3/4/2021					0.0079 (J)	0.033 (J)	0.078
8/26/2021			<0.04			0.095	
8/27/2021	0.011 (J)	<0.04		<0.04			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					<0.04		
9/3/2021							0.077
2/8/2022						0.13	0.074
2/9/2022	0.0098 (J)	<0.04	<0.04	<0.04	<0.04		
8/30/2022	0.013 (J)	<0.04	0.014 (J)		0.012 (J)		
8/31/2022				<0.04		0.14	0.062
2/7/2023	0.014 (J)	<0.04	<0.04	<0.04	<0.04	0.13	
2/8/2023							0.057
8/15/2023	<0.04	<0.04	<0.04	<0.04	0.046 (J)	0.15 (J)	0.052 (J)
2/20/2024	<0.04	<0.04		<0.04	<0.04	0.12	0.056
2/23/2024			0.018 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	<0.04	<0.04	<0.04		
6/9/2016					0.88
7/26/2016	0.0047 (J)	0.0052 (J)	<0.04		
8/2/2016					0.872
8/31/2016				0.0315 (J)	
9/14/2016	<0.04	0.0071 (J)	0.01 (J)		
9/21/2016					0.853
11/2/2016	<0.04	<0.04			
11/4/2016			<0.04		
11/7/2016					0.815
11/28/2016				0.0095 (J)	
1/12/2017		0.0076 (J)	<0.04		
1/13/2017	<0.04				
1/19/2017					0.803
2/22/2017				<0.04	0.855
3/6/2017	<0.04				
3/7/2017		0.0089 (J)	<0.04		
5/1/2017	<0.04	0.0061 (J)			
5/2/2017			<0.04		
5/8/2017				0.0084 (J)	0.884
6/27/2017		0.0079 (J)	<0.04		
6/29/2017	<0.04				
7/5/2017					0.811
7/17/2017				0.0092 (J)	
10/3/2017		0.0094 (J)	<0.04		
10/5/2017	<0.04				0.851
10/16/2017				<0.04	
2/19/2018				<0.04	
6/6/2018		0.0098 (J)			
6/7/2018	0.0045 (J)		<0.04		
6/11/2018					0.9
8/6/2018				<0.04	
9/26/2018	0.005 (J)	0.01 (J)	0.0057 (J)		
10/2/2018					0.81
2/25/2019				<0.04	
4/1/2019					0.85
4/3/2019	0.0055 (J)	0.0076 (J)	0.0044 (J)		
6/12/2019				<0.04	
9/24/2019		0.01 (J)	0.0049 (J)		
9/25/2019	<0.04				0.73
10/8/2019				<0.04	
3/17/2020				0.0051 (J)	
3/20/2020					0.8
3/24/2020		0.011 (J)	0.0068 (J)		
3/25/2020	0.011 (J)				
9/22/2020	<0.04	0.0079 (J)	0.0053 (J)	0.0079 (J)	
9/24/2020					0.84
3/2/2021		0.0068 (J)	0.011 (J)	<0.04	
3/3/2021	0.0056 (J)				0.62
8/20/2021				<0.04	0.66
8/26/2021	<0.04	0.009 (J)	<0.04		
2/8/2022				<0.04	0.71

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		0.011 (J)	<0.04		
2/11/2022	<0.04				
8/30/2022		0.0098 (J)	<0.04	<0.04	
8/31/2022	<0.04				
9/1/2022					0.71
2/7/2023		<0.04		<0.04	
2/8/2023					0.9
2/9/2023	<0.04		<0.04		
8/2/2023					0.75
8/15/2023	<0.04	<0.04	<0.04	<0.04	
2/20/2024	<0.04	<0.04	<0.04	0.017 (J)	
2/22/2024					1.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	<0.0005	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	<0.0005					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	<0.0005						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	<0.0005						
1/11/2017		0.0002 (J)				0.0001 (J)	8E-05 (J)
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<0.0005			
3/8/2017	7E-05 (J)						
4/26/2017	<0.0005				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	<0.0005				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	<0.0005				<0.0005		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	<0.0005			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	<0.0005				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	<0.0005				<0.0005	<0.0005	
3/18/2020	<0.0005		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
9/24/2020					<0.0005		
9/25/2020	<0.0005						
2/10/2021	<0.0005			<0.0005		<0.0005	<0.0005
2/11/2021					<0.0005		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	<0.0005						
2/11/2022					<0.0005		
8/30/2022		<0.0005		<0.0005			
8/31/2022	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005
2/7/2023		<0.0005	<0.0005	<0.0005			
2/8/2023	<0.0005				<0.0005	<0.0005	0.00013 (J)
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
8/16/2023					<0.0005		<0.0005
2/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024	<0.0005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					0.00055 (J)	<0.0005	
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					0.0001 (J)	<0.0005	
8/30/2016							0.0001 (J)
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					0.0001 (J)	<0.0005	
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
11/8/2016					9E-05 (J)		
11/14/2016							0.0001 (J)
1/18/2017	<0.0005	<0.0005	<0.0005		9E-05 (J)	<0.0005	
1/19/2017				<0.0005			
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	0.0001 (J)		
2/23/2017			<0.0005				
2/24/2017							9E-05 (J)
5/3/2017		<0.0005					
5/5/2017					9E-05 (J)	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			0.0001 (J)
6/30/2017			<0.0005	<0.0005			
7/5/2017					0.0002 (J)		
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
7/11/2017							<0.0005
10/10/2017							<0.0005
3/29/2018			<0.0005	<0.0005			
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
4/2/2018							<0.0005
9/19/2018							<0.0005
2/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	0.00014 (J)	<0.0005	
4/1/2019			<0.0005	<0.0005	0.00043 (J)		
4/2/2019	<0.0005	<0.0005				<0.0005	
8/20/2019							<0.0005
9/25/2019	<0.0005	<0.0005					
9/26/2019			<0.0005	<0.0005	<0.0005	<0.0005	
10/8/2019							<0.0005
2/13/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00013 (J)	<0.0005	
3/17/2020							<0.0005
3/19/2020		<0.0005			0.00016 (J)	<0.0005	
3/20/2020	<0.0005		<0.0005	<0.0005			
8/27/2020							<0.0005
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00027 (J)	<0.0005	
2/10/2021	<0.0005	<0.0005	<0.0005	<0.0005			
2/11/2021					0.00052 (J)		
2/12/2021						0.00048 (J)	
3/2/2021		<0.0005					
3/3/2021	<0.0005		<0.0005	<0.0005	0.00014 (J)	<0.0005	
8/19/2021		<0.0005					<0.0005
8/20/2021	<0.0005		<0.0005	<0.0005	0.00027 (J)	<0.0005	
2/8/2022				<0.0005	0.00033 (J)	<0.0005	<0.0005
2/10/2022	<0.0005	<0.0005	<0.0005				
8/31/2022	<0.0005	<0.0005					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
9/1/2022			<0.0005	<0.0005	0.00017 (J)	<0.0005	
2/8/2023							0.00032 (J)
2/9/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/15/2023							<0.0005
8/16/2023					<0.0005	<0.0005	
8/17/2023	<0.0005	<0.0005	<0.0005	<0.0005			
2/20/2024							<0.0005
2/21/2024			<0.0005	<0.0005	<0.0005	<0.0005	
2/22/2024	<0.0005	<0.0005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.0005	<0.0005				
6/7/2016	<0.0005			<0.0005	<0.0005		
7/27/2016	<0.0005	<0.0005	<0.0005	<0.0005			
7/28/2016					<0.0005		
9/16/2016	<0.0005		<0.0005				
9/19/2016		<0.0005		<0.0005	<0.0005		
11/2/2016				<0.0005			
11/3/2016	<0.0005	<0.0005	<0.0005		<0.0005		
1/11/2017	0.0001 (J)	<0.0005	0.0001 (J)				
1/13/2017				<0.0005	<0.0005		
3/1/2017		<0.0005	<0.0005				
3/2/2017	<0.0005						
3/6/2017				<0.0005	<0.0005		
4/26/2017		<0.0005	<0.0005	<0.0005	<0.0005		
5/2/2017	<0.0005						
6/28/2017		<0.0005	<0.0005				
6/29/2017	<0.0005			<0.0005	<0.0005		
10/11/2017						<0.0005	
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	
3/28/2018	<0.0005	<0.0005	<0.0005				
3/29/2018				<0.0005	<0.0005		
4/3/2018						<0.0005	<0.0005
6/5/2018					<0.0005		
6/6/2018				<0.0005			
6/7/2018		<0.0005					
6/11/2018	<0.0005		<0.0005				
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	<0.0005	<0.0005	<0.0005	9.6E-05 (J)		
3/5/2019	<0.0005		<0.0005	<0.0005	<0.0005		
3/6/2019		<0.0005					
4/2/2019	<0.0005				<0.0005		
4/3/2019		<0.0005	<0.0005	<0.0005			
8/21/2019						<0.0005	<0.0005
9/24/2019					<0.0005		
9/25/2019	<0.0005			<0.0005			
9/26/2019		<0.0005	<0.0005				
10/9/2019						<0.0005	<0.0005
2/11/2020	<0.0005	<0.0005	<0.0005				
2/12/2020				<0.0005	<0.0005	<0.0005	<0.0005
3/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/25/2020						<0.0005	
9/23/2020	<0.0005	<0.0005	<0.0005				
9/24/2020				<0.0005	<0.0005	<0.0005	<0.0005
2/9/2021		<0.0005	<0.0005	<0.0005	0.00041 (J)		
2/10/2021						0.00019 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.0005	<0.0005	<0.0005	<0.0005			
3/4/2021					<0.0005	0.0003 (J)	<0.0005
8/26/2021			<0.0005			0.00049 (J)	
8/27/2021	<0.0005	<0.0005		<0.0005			
9/1/2021					<0.0005		
9/3/2021							<0.0005
2/8/2022						0.00063	<0.0005
2/9/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/30/2022	<0.0005	<0.0005	<0.0005		<0.0005		
8/31/2022				<0.0005		0.00044 (J)	<0.0005
2/7/2023	<0.0005	<0.0005	<0.0005	<0.0005	0.00012 (J)	0.00014 (J)	
2/8/2023							<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024			<0.0005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.0005	
9/11/2007				<0.0005	
3/20/2008				<0.0005	
8/27/2008				<0.0005	
3/3/2009				<0.0005	
11/18/2009				<0.0005	
3/3/2010				<0.0005	
9/8/2010				<0.0005	
3/10/2011				<0.0005	
9/8/2011				<0.0005	
3/5/2012				<0.0005	
9/10/2012				<0.0005	
2/6/2013				<0.0005	
8/12/2013				<0.0005	
2/5/2014				<0.0005	
8/5/2014				<0.0005	
2/4/2015				<0.0005	
8/3/2015				<0.0005	
2/16/2016				<0.0005	
6/2/2016	<0.0005	<0.0005	<0.0005		
6/9/2016					<0.0025
7/26/2016	<0.0005	<0.0005	<0.0005		
8/2/2016					0.0001 (J)
8/31/2016				<0.0005	
9/14/2016	<0.0005	<0.0005	<0.0005		
9/21/2016					0.0002 (J)
11/2/2016	<0.0005	<0.0005			
11/4/2016			<0.0005		
11/7/2016					0.0002 (J)
11/28/2016				<0.0005	
1/12/2017		<0.0005	9E-05 (J)		
1/13/2017	<0.0005				
1/19/2017					0.0001 (J)
2/22/2017				<0.0005	0.0001 (J)
3/6/2017	<0.0005				
3/7/2017		<0.0005	<0.0005		
5/1/2017	<0.0005	<0.0005			
5/2/2017			<0.0005		
5/8/2017				<0.0005	0.0002 (J)
6/27/2017		<0.0005	<0.0005		
6/29/2017	<0.0005				
7/5/2017					0.0002 (J)
7/17/2017				<0.0005	
10/16/2017				<0.0005	
2/19/2018				<0.0005	
3/29/2018	<0.0005	<0.0005	<0.0005		<0.0025
6/6/2018		<0.0005			
6/7/2018	<0.0005		<0.0005		
8/6/2018				<0.0005	
9/26/2018	<0.0005	<0.0005	<0.0005		
2/25/2019				<0.0005	
2/27/2019					0.00026 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
3/4/2019	<0.0005	<0.0005	<0.0005		
4/1/2019					0.00022 (J)
4/3/2019	<0.0005	<0.0005	<0.0005		
6/12/2019				<0.0005	
8/19/2019				<0.0005	
9/24/2019		<0.0005	<0.0005		
9/25/2019	<0.0005				0.00024 (J)
10/8/2019				<0.0005	
2/12/2020	<0.0005	<0.0005	<0.0005		
2/13/2020					0.00018 (J)
3/17/2020				<0.0005	
3/20/2020					0.00022 (J)
3/24/2020		<0.0005	<0.0005		
3/25/2020	<0.0005				
8/26/2020				<0.0005	
9/22/2020	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020					0.00033 (J)
2/8/2021		<0.0005	<0.0005		
2/9/2021	<0.0005				
2/12/2021					<0.0025
3/2/2021		<0.0005	<0.0005	<0.0005	
3/3/2021	<0.0005				0.00029 (J)
8/20/2021				<0.0005	0.00027 (J)
8/26/2021	<0.0005	<0.0005	<0.0005		
2/8/2022				<0.0005	0.00019 (J)
2/10/2022		<0.0005	<0.0005		
2/11/2022	<0.0005				
8/30/2022		<0.0005	<0.0005	<0.0005	
8/31/2022	<0.0005				
9/1/2022					0.0002 (J)
2/7/2023		<0.0005		0.00012 (J)	
2/8/2023					0.00028 (J)
2/9/2023	<0.0005		<0.0005		
8/2/2023					0.00016 (J)
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	
2/22/2024					0.00012 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		12	2.5				21
6/2/2016	1.3				1.3	28	
7/25/2016			2.16		1.17		20.3
7/26/2016	1.24	11				24.5	
9/13/2016		11.8	2.21				
9/14/2016				23.5			19.7
9/15/2016	1.17					27	
9/19/2016					1.05		
11/1/2016		11			1.14	25.6	18.4
11/2/2016	1.23						
11/4/2016			2.67	23.7			
12/15/2016				23.1			
1/10/2017	1.24						
1/11/2017		11.2				27.5	20.3
1/16/2017			2.45	23.3	1.23		
2/21/2017					1.25		
3/1/2017							18.6
3/2/2017		11	2.57			27.5	
3/3/2017				25.1			
3/8/2017	1.21						
4/26/2017	1.14				1.03	30.4	25.6
4/27/2017		11.1	2.38				
4/28/2017				30.7			
5/26/2017				26.2			
6/27/2017		13.8	2.36				
6/28/2017				26.1		29.8	23.9
6/30/2017	1.24				1.13		
10/3/2017		14	2.21	26.7			
10/4/2017					1.09	29.7	22.1
10/5/2017	1.11						
6/5/2018		15.2 (J)					
6/6/2018			2.3				
6/7/2018				25		29.1	
6/8/2018	1.1						21.9 (J)
6/11/2018					1.1		
10/1/2018	0.99	15.1	1.8	25		26.9	19.7
10/2/2018					1.1		
3/28/2019		13.3 (J)	2.2				
3/29/2019	1.1			23.5 (J)			
4/1/2019					1.3	30.1	20.4 (J)
9/24/2019		15.8	2.3	26.4			
9/25/2019	1.1				1.1	29.5	22.4
3/18/2020	1.1		2.1				
3/19/2020		15		27.4	1.2	31.5	21.9
9/23/2020		14.1	1.8	26.3		28.6	23.6
9/24/2020					1.1		
9/25/2020	1.3						
3/1/2021					1.2		
3/2/2021	1.2						
3/3/2021		14.1	1.8	25.6		29.8	20.6
8/19/2021	1.2	14.2	2		1.2	28.1	
8/27/2021				22.6			24.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		14.9	2.1	23.4		30.3	23.7
2/10/2022	1.3						
2/11/2022					1.5		
8/30/2022		14.9		25.4			
8/31/2022	1.3		1.9		1.3	28.7	23.5
2/7/2023		15	2.2	25.6			
2/8/2023	1.5				1.3	28.9	23.3
8/15/2023	1.3	13.5	1.8	23.2		27.4	
8/16/2023					1.4		24.9
2/20/2024		15.3	2.2	28.2	1.3	30.7	23.7
2/23/2024	1.6						

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	15	13	25	44			
6/9/2016					36	26	
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	
8/30/2016							20.9
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	
11/7/2016	13.8	12.1	26.1	34.9		25.1	
11/8/2016					33.8		
11/14/2016							18.6
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		
2/23/2017			28.2				
2/24/2017							16.1
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			14.6
6/30/2017			27.2	36.2			
7/5/2017					33.4		
7/7/2017						28.6	
7/10/2017	17.4	12.7					
7/11/2017							14.3
10/5/2017					36.4		
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					12.1
4/2/2018							<25
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
9/19/2018							11.1 (J)
10/2/2018	14.7	12.4 (J)	29.2	39.1			
10/3/2018					32.6	25.8	
3/27/2019							10.8 (J)
4/1/2019			27.4	38	33.8		
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					
9/26/2019			24.2	37.5	32	26.1	
10/8/2019							9.7
3/17/2020							14.8
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			
9/22/2020							10.1
9/24/2020	16.9	11.3	27.9	38.6	34.3	30.8	
3/1/2021							10.3
3/2/2021		12.9					
3/3/2021	16.1		25.7	30.2	30.9	28.4	
8/19/2021		11.5					9.6
8/20/2021	17.2		25.7	29.9	33.1	27.8	
2/8/2022				27.2	31.8	26.7	9.4
2/10/2022	16.4	11.6	27.4				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	16.4	10.8					9.6
9/1/2022			28.2	21.3	26.3	33.1	
2/8/2023							9.2
2/9/2023	15.8	10.7	26.9	20.1	27.7	33.1	
8/15/2023							9.6
8/16/2023					27.3	31.2	
8/17/2023	15.6	10.8	25.4	20.8			
2/20/2024							10.3
2/21/2024			27.7	20.4	27.8	31	
2/22/2024	16.7	11					

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		6.2	1.4				
6/7/2016	2.2			2.3	3.7		
7/27/2016	2	4.73	1.19	2.08			
7/28/2016					3.15		
9/16/2016	1.97		1.5				
9/19/2016		4.76		1.97	3.17		
11/2/2016				2.13			
11/3/2016	1.99	5.25	1.31		3.4		
1/11/2017	2.28	4.74	1.25				
1/13/2017				2.45	4.98		
3/1/2017		5.37	1.26				
3/2/2017	2.15						
3/6/2017				2.48	6.28		
4/26/2017		4.28	1.05	2.3	6.65		
5/2/2017	1.95						
6/28/2017		4.95	1.06				
6/29/2017	2.02			2.54	6.04		
10/3/2017					8.28		
10/4/2017	2.03		1.1	2.25			
10/5/2017		5.28					
10/11/2017						2.74	
10/12/2017							2.9
11/20/2017						1.81	10.4
1/10/2018							10.2
1/11/2018						1.54	
2/19/2018							<25
2/20/2018						1.71	
4/3/2018						1.4	6.3
6/5/2018					9.1		
6/6/2018				2.3			
6/7/2018		4.8					
6/11/2018	2.1		1.4				
6/28/2018						1.4	6.7
8/7/2018						1.2	6.3
9/24/2018						1.1	5.7
9/25/2018	2.1	4.6	1	2.3	10.4 (J)		
3/26/2019							5.6
3/27/2019						1.5	
4/2/2019	2.5				8.8		
4/3/2019		5.3	1.2	2.9			
9/24/2019					7.7		
9/25/2019	2.6			2.4			
9/26/2019		4.9	1.1				
10/9/2019						2.4	4.9
3/24/2020	2.7	5.3	1	2.6	6		4.8
3/25/2020						2.7	
9/23/2020	2.6	5.2	0.91 (J)				
9/24/2020				2.6	7.8	3.7	4.4
3/3/2021	2.5	5.2	0.96 (J)	2.4			
3/4/2021					8.7	8.2	4.6
8/26/2021			0.98 (J)			14.1	
8/27/2021	2.7	5.1		2.4			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					9.5		
9/3/2021							5.6
2/8/2022						15.2	6
2/9/2022	2.8	5.1	0.87 (J)	2.3	9.8		
8/30/2022	3	5.7	0.77 (J)		7.3		
8/31/2022				2.4		16.3	6.2
2/7/2023	2.9	5.5	0.79 (J)	2.4	7.5	16.1	
2/8/2023							5.9
8/15/2023	2.9	5.1	0.8 (J)	2.2	6.1	17.2	5.3
2/20/2024	3.2	5.6		2.5	7	16.9	5.6
2/23/2024			0.84 (J)				

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	8.8	33	2.4		
6/9/2016					12
7/26/2016	7.69	32.3	2.12		
8/2/2016					11.7
8/31/2016				9.31	
9/14/2016	8.49	31	2.18		
9/21/2016					11.1
11/2/2016	7.83	30.9			
11/4/2016			2.17 (J)		
11/7/2016					11.4
11/28/2016				9.47 (B)	
1/12/2017		35.7	2.37		
1/13/2017	8.08				
1/19/2017					12
2/22/2017				10.4	11.2
3/6/2017	8.64				
3/7/2017		32.7	2.34		
5/1/2017	13.4	37			
5/2/2017			2.17		
5/8/2017				14.2	11.2
6/27/2017		36.5	2.13		
6/29/2017	8.81				
7/5/2017					11.9
7/17/2017				14.1	
10/3/2017		30.9	2.15		
10/5/2017	9.29				12
10/16/2017				13.6	
2/19/2018				<25	
6/6/2018		26.2			
6/7/2018	8.2		2.3		
6/11/2018					12.1
8/6/2018				11.4 (J)	
9/26/2018	9.5 (J)	25.8	2.3		
10/2/2018					11.7 (J)
2/25/2019				12.7 (J)	
4/1/2019					11.9 (J)
4/3/2019	8.4	24.7 (J)	2.8		
6/12/2019				18.9	
9/24/2019		25.8	2.5		
9/25/2019	9.5				10.7
10/8/2019				28.3	
3/17/2020				24.3	
3/20/2020					12.7
3/24/2020		26.1	2.5		
3/25/2020	10.5				
9/22/2020	9.6	27.2	2.6	31	
9/24/2020					12.4
3/2/2021		1.6	2.6	34.2	
3/3/2021	7.7				9.5
8/20/2021				26.5	10.2
8/26/2021	7.6	25.2	2.5		
2/8/2022				25.6	9.3

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		24.8	2.5		
2/11/2022	7.5				
8/30/2022		24.8	2.5	23.5	
8/31/2022	8.9				
9/1/2022					11
2/7/2023		26.6		22.3	
2/8/2023					11.9
2/9/2023	9.6		2.8		
8/2/2023					11.8
8/15/2023	7.8	25	2.6	20.3	
2/20/2024	9.9	27.2	2.7	22.8	
2/22/2024					11.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6				1.3
6/2/2016	4.1				1.9	1.4	
7/25/2016			1.4		1.7		1.3
7/26/2016	4	1.2				1.6	
9/13/2016		1.1	1.3				
9/14/2016				1.1			1.3
9/15/2016	4.2					1.5	
9/19/2016					1.6		
11/1/2016		1.3			1.8	1.7	1.4
11/2/2016	4.9						
11/4/2016			1.6	1.4			
12/15/2016				2.9			
1/10/2017	4.1						
1/11/2017		1.1				1.2	1.1
1/16/2017			1.4	0.98	1.7		
2/21/2017					1.7		
3/1/2017							1.1
3/2/2017		1	1.3			1.2	
3/3/2017				1.1			
3/8/2017	4.2						
4/26/2017	4.1				1.7	1.2	1.1
4/27/2017		1	1.3				
4/28/2017				0.91			
5/26/2017				0.93			
6/27/2017		1.1	1.4				
6/28/2017				1		1.3	1.2
6/30/2017	3.7				1.8		
10/3/2017		1.1	1.7	1.2			
10/4/2017					1.8	1.5	1.2
10/5/2017	3.8						
6/5/2018		1.1					
6/6/2018			1.4				
6/7/2018				1		1.2	
6/8/2018	3.4						1.2
6/11/2018					2		
10/1/2018	3.8	1.1	1.4	1.1		1.5	1.2
10/2/2018					1.8		
3/28/2019		1.4	1.5				
3/29/2019	4.2			1.2			
4/1/2019					1.7	1.2	1.1
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019	4.8				1.6	1.1	1.1
3/18/2020	5.2		1.4				
3/19/2020		1.1		0.97 (J)	1.8	1.2	1.1
9/23/2020		0.99 (J)	1.2	0.88 (J)		1.1	1
9/24/2020					1.5		
9/25/2020	5.3						
3/1/2021					1.6		
3/2/2021	4.9						
3/3/2021		0.96 (J)	1.2	0.86 (J)		1.1	0.99 (J)
8/19/2021	5	1.1	1.3		1.6	1.1	
8/27/2021				0.99 (J)			1.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		1	1.3	1 (J)		1.1	1.1
2/10/2022	4.7						
2/11/2022					2.1		
8/30/2022		1.3		1.2			
8/31/2022	4.6		1.5		1.8	1.3	1.3
2/7/2023		1.3	1.5	1.1			
2/8/2023	4.9				1.6	1.2	1.1
8/15/2023	4.1	1.1	1.4	0.93 (J)		1.1	
8/16/2023					1.5		1.1
2/20/2024		1	1.2	0.96 (J)	1.4	1.1	1.1
2/23/2024	4.8						

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	19	18	14	22			
6/9/2016					18	19	
8/1/2016	17	16	13	21			
8/2/2016					18	18	
8/30/2016							5.2
9/20/2016	18	18	13	22			
9/21/2016					18	19	
11/7/2016	17	16	14	24		20	
11/8/2016					18		
11/14/2016							6.4
1/18/2017	19	17	14		18	20	
1/19/2017				22			
2/21/2017	18	16				19	
2/22/2017				21	18		
2/23/2017			14				
2/24/2017							5.5
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			5.8
6/30/2017			14	21			
7/5/2017					18		
7/7/2017						20	
7/10/2017	19	15					
7/11/2017							5.8
10/5/2017					19		
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					5.9
4/2/2018							4.8
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
9/19/2018							4
10/2/2018	18.3	14	13.8	19.9			
10/3/2018					17.7	20.2	
3/27/2019							4.3
4/1/2019			14.2	19.7	17.2		
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					
9/26/2019			14.3	19.6	17.3	19.5	
10/8/2019							4.4
3/17/2020							4.1
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			
9/22/2020							4.2
9/24/2020	17.1	15.7	13.3	17	15.1	18	
3/1/2021							3.7
3/2/2021		13.2					
3/3/2021	16.6		13	4	14.6	18	
8/19/2021		13.5					3.5
8/20/2021	14.4		13.7	15.2	15.2	18.1	
2/8/2022				13	15.2	18.3	3.2
2/10/2022	15.4	14	13.1				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	16.6	15					3.5
9/1/2022			13.4	10.4	10.4	16.5	
2/8/2023							3.5
2/9/2023	16.6	15.1	13.9	11.5	11.5	18.1	
8/15/2023							3.5
8/16/2023					10.5	16.8	
8/17/2023	15.7	14.4	12.9	11.7			
2/20/2024							3.2
2/21/2024			12.5	12.6	10.4	17.5	
2/22/2024	16	14.9					

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		6.8	6.4				
6/7/2016	4.5			1.9	2.8		
7/27/2016	4.5	6.7	6.2	1.9			
7/28/2016					2.6		
9/16/2016	4.5		6.1				
9/19/2016		7		1.9	2.4		
11/2/2016				2.6			
11/3/2016	5.4	7.5	7.4		2.9		
1/11/2017	4.7	6.5	6.1				
1/13/2017				2.3	2.5		
3/1/2017		6.9	6				
3/2/2017	4.8						
3/6/2017				1.9	2.1		
4/26/2017		7	6.5	2	2.1		
5/2/2017	4.6						
6/28/2017		7	6.4				
6/29/2017	4.5			2.6	2.8		
10/3/2017					2.2		
10/4/2017	4.7		6.8	2.6			
10/5/2017		7					
10/11/2017						2.4	
10/12/2017							3.8
11/20/2017						1.8	4.4
1/10/2018							4.6
1/11/2018						1.6	
2/19/2018							4.6
2/20/2018						2	
4/3/2018						3.3	5.9
6/5/2018					1.7		
6/6/2018				2.7			
6/7/2018		6.8					
6/11/2018	4.9		6.8				
6/28/2018						2.1	5
8/7/2018						1.2	4.3
9/24/2018						1.3	4.9
9/25/2018	5.6	7.9	7.8	3.6	2.2		
3/26/2019							4.4
3/27/2019						1.4	
4/2/2019	4.8				2.5		
4/3/2019		6.9	6.3	3.1			
9/24/2019					3.1		
9/25/2019	5.7			2.8			
9/26/2019		7	7.1				
10/9/2019						2.1	5.1
3/24/2020	5	7	6.8	2.7	2.8		4.7
3/25/2020						1.9	
9/23/2020	6.6	7.2	7.2				
9/24/2020				2.7	2	2.7	5
3/3/2021	7.1	7	7.2	2.7			
3/4/2021					1.8	4.9	4.9
8/26/2021			7.3			7.2	
8/27/2021	8.5	7.4		2.8			

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					1.8		
9/3/2021							5.5
2/8/2022						7.4	6.2
2/9/2022	10.9	7.5	7	2.8	1.7		
8/30/2022	12	7.9	7		2.4		
8/31/2022				2.9		6.7	6.3
2/7/2023	11.4	7.4	6.4	2.9	2.4	5.6	
2/8/2023							6.9
8/15/2023	11.6	7.3	6.7	2.8	2.3	4.5	5.6
2/20/2024	12.2	7.6		2.9	2.3	4.6	5.7
2/23/2024			6.6				

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	3.7	7.2	4.3		
6/9/2016					15
7/26/2016	3.6	6.6	4.4		
8/2/2016					14
8/31/2016				4	
9/14/2016	3.4	6.6	3.8		
9/21/2016					14
11/2/2016	4.5	7.6			
11/4/2016			4.8		
11/7/2016					14
11/28/2016				4.2	
1/12/2017		6.8	3.8		
1/13/2017	4.2				
1/19/2017					14
2/22/2017				3.7	13
3/6/2017	3.6				
3/7/2017		6.8	4.5		
5/1/2017	4.3	7.2			
5/2/2017			4.6		
5/8/2017				4.2	15
6/27/2017		7	4.3		
6/29/2017	4.2				
7/5/2017					14
7/17/2017				3.8	
10/3/2017		6.5	4.2		
10/5/2017	4.7				15
10/16/2017				4.2	
2/19/2018				4.3	
6/6/2018		4.7			
6/7/2018	4.4		4.5		
6/11/2018					13.6
8/6/2018				3.8	
9/26/2018	4.8	4.8	5.1		
10/2/2018					13.4
2/25/2019				4.1	
4/1/2019					13.1
4/3/2019	4.3	4	4.2		
6/12/2019				4.7	
9/24/2019		3.7	4.5		
9/25/2019	4.5				11.3
10/8/2019				5.1	
3/17/2020				4.8	
3/20/2020					11.3
3/24/2020		3.5	4.3		
3/25/2020	3.9				
9/22/2020	4.5	3.6	4.2	4.2	
9/24/2020					10.9
3/2/2021		3.2	4.3	4.1	
3/3/2021	4.1				6.7
8/20/2021				5.2	6.8
8/26/2021	4.4	3.4	4.3		
2/8/2022				5.7	5.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		3.2	4.4		
2/11/2022	4.1				
8/30/2022		3.5	4.4	6.3	
8/31/2022	4.4				
9/1/2022					8.1
2/7/2023		3.3		6.1	
2/8/2023					10.4
2/9/2023	4.5		5		
8/2/2023					9.5
8/15/2023	4.4	3.1	4.1	5.6	
2/20/2024	4.6	3.2	4.8	6.1	
2/22/2024					10.5

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0035	<0.005				<0.005
6/2/2016	<0.005				<0.005	0.0013 (J)	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0009 (J)	0.0004 (J)			0.0006 (J)	
3/3/2017				0.0005 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0016 (J)	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				0.0004 (J)			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.0021 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.00072 (J)	0.0028 (J)	<0.005			
9/25/2019	<0.005				<0.005	0.0014 (J)	0.0019 (J)
2/10/2020		0.00042 (J)	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005	<0.005
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					<0.005		
8/30/2022		0.0011 (J)		<0.005			
8/31/2022	<0.005		<0.005		<0.005	<0.005	<0.005
2/7/2023		<0.005	0.0013 (J)	<0.005			
2/8/2023	<0.005				0.0021 (J)	<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005		<0.005	
8/16/2023					<0.005		<0.005
2/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024	<0.005						

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	
8/30/2016							<0.005
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	
11/8/2016					<0.005		
11/14/2016							0.0093 (J)
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		
2/23/2017			<0.005				
2/24/2017							<0.005
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
7/11/2017							<0.005
10/10/2017							<0.005
3/29/2018			<0.005	<0.005			
3/30/2018	<0.005	<0.005			<0.005	<0.005	
4/2/2018							<0.005
9/19/2018							<0.005
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	
4/1/2019			<0.005	<0.005	<0.005		
4/2/2019	<0.005	0.003 (J)				<0.005	
8/20/2019							<0.005
9/25/2019	0.00048 (J)	0.0012 (J)					
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			
8/27/2020							<0.005
9/22/2020							<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/1/2021							<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	
8/19/2021		0.0012 (J)					<0.005
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
9/1/2022			<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005
2/9/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	
8/15/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			
2/20/2024							<0.005
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		0.0012 (J)	<0.005				
6/7/2016	<0.005			<0.005	<0.005		
7/27/2016	0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)			
7/28/2016					<0.005		
9/16/2016	<0.005		<0.005				
9/19/2016		<0.005		<0.005	<0.005		
11/2/2016				<0.005			
11/3/2016	<0.005	<0.005	<0.005		<0.005		
1/11/2017	<0.005	<0.005	<0.005				
1/13/2017				<0.005	<0.005		
3/1/2017		0.0012 (J)	<0.005				
3/2/2017	0.001 (J)						
3/6/2017				<0.005	<0.005		
4/26/2017		0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.005		
5/2/2017	0.0007 (J)						
6/28/2017		0.0006 (J)	<0.005				
6/29/2017	0.0006 (J)			0.0005 (J)	<0.005		
10/11/2017						<0.005	
10/12/2017							<0.005
11/20/2017						<0.005	<0.005
1/10/2018							<0.005
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	<0.005				
3/29/2018				<0.005	<0.005		
4/3/2018						<0.005	<0.005
6/28/2018						<0.005	<0.005
8/7/2018						<0.005	<0.005
9/24/2018						<0.005	<0.005
3/5/2019	<0.005		<0.005	<0.005	<0.005		
3/6/2019		<0.005					
8/21/2019						<0.005	0.00053 (J)
10/9/2019						<0.005	0.0012 (J)
2/11/2020	0.00087 (J)	0.001 (J)	0.00088 (J)				
2/12/2020				0.00045 (J)	<0.005	<0.005	0.00065 (J)
3/24/2020	0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005		0.00055 (J)
3/25/2020						<0.005	
9/23/2020	0.00098 (J)	0.00092 (J)	0.0012 (J)				
9/24/2020				0.00076 (J)	<0.005	<0.005	<0.005
2/9/2021		0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005		
2/10/2021						<0.005	<0.005
3/3/2021	0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005			
3/4/2021					<0.005	<0.005	<0.005
8/26/2021			<0.005			<0.005	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					<0.005		
9/3/2021							<0.005
2/8/2022						<0.005	<0.005
2/9/2022	<0.005	<0.005	0.0014 (J)	<0.005	<0.005		
8/30/2022	<0.005	<0.005	0.0015 (J)		<0.005		
8/31/2022				<0.005		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/7/2023	<0.005	<0.005	0.0016 (J)	<0.005	<0.005	<0.005	
2/8/2023							<0.005
8/15/2023	<0.005	<0.005	0.0013 (J)	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/23/2024			<0.005				

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				0.0029	
9/11/2007				0.0084	
3/20/2008				0.0027	
8/27/2008				0.0026	
3/3/2009				0.0022	
11/18/2009				0.0036	
3/3/2010				<0.005	
9/8/2010				<0.005	
3/10/2011				<0.005	
9/8/2011				<0.005	
3/5/2012				<0.005	
9/10/2012				<0.005	
2/6/2013				<0.005	
8/12/2013				<0.005	
2/5/2014				0.0059	
8/5/2014				<0.005	
2/4/2015				<0.005	
8/3/2015				0.0011 (J)	
2/16/2016				<0.005	
6/2/2016	<0.005	<0.005	<0.005		
6/9/2016					<0.005
7/26/2016	<0.005	<0.005	<0.005		
8/2/2016					0.0005 (J)
8/31/2016				<0.005	
9/14/2016	<0.005	<0.005	<0.005		
9/21/2016					<0.005
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				<0.005	
1/12/2017		<0.005	<0.005		
1/13/2017	<0.005				
1/19/2017					<0.005
2/22/2017				<0.005	<0.005
3/6/2017	<0.005				
3/7/2017		<0.005	<0.005		
5/1/2017	<0.005	0.0004 (J)			
5/2/2017			<0.005		
5/8/2017				<0.005	<0.005
6/27/2017		<0.005	<0.005		
6/29/2017	<0.005				
7/5/2017					<0.005
7/17/2017				<0.005	
10/16/2017				<0.005	
2/19/2018				<0.005	
3/29/2018	<0.005	<0.005	<0.005		<0.005
8/6/2018				<0.005	
2/25/2019				<0.005	
2/27/2019					<0.005
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
6/12/2019				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
8/19/2019				<0.005	
9/25/2019					<0.005
10/8/2019				<0.005	
2/12/2020	<0.005	<0.005	0.00043 (J)		
2/13/2020					<0.005
3/17/2020				<0.005	
3/20/2020					<0.005
3/24/2020		<0.005	0.0014 (J)		
3/25/2020	0.00058 (J)				
8/26/2020				<0.005	
9/22/2020	<0.005	0.0011 (J)	<0.005	<0.005	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					<0.005
3/2/2021		<0.005	<0.005	<0.005	
3/3/2021	0.0013 (J)				<0.005
8/20/2021				<0.005	<0.005
8/26/2021	<0.005	<0.005	<0.005		
2/8/2022				<0.005	<0.005
2/10/2022		<0.005	<0.005		
2/11/2022	<0.005				
8/30/2022		<0.005	<0.005	<0.005	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		<0.005		<0.005	
2/8/2023					<0.005
2/9/2023	<0.005		0.0012 (J)		
8/2/2023					<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	
2/20/2024	<0.005	<0.005	<0.005	<0.005	
2/22/2024					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	0.00082 (J)				<0.005
6/2/2016	<0.005				0.035	<0.005	
7/25/2016			0.0008 (J)		0.0312		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	0.0009 (J)				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					0.0275		
11/1/2016		<0.005			0.0255	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			0.0025 (J)	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005	0.0245		
2/21/2017					0.0272		
3/1/2017							<0.005
3/2/2017		<0.005	0.0022 (J)			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0244	<0.005	<0.005
4/27/2017		<0.005	0.0018 (J)				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	0.0023 (J)				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				0.0233		
3/27/2018	<0.005		<0.005		0.023		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
6/5/2018		<0.005					
6/6/2018			<0.005				
6/7/2018				<0.005		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					0.023		
10/1/2018	<0.005	<0.005	0.00059 (J)	<0.005		<0.005	<0.005
10/2/2018					0.022		
2/26/2019	<0.005				0.021		
2/27/2019		<0.005	0.00064 (J)	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					0.022	<0.005	<0.005
9/24/2019		<0.005	0.0013 (J)	<0.005			
9/25/2019	<0.005				0.016	<0.005	<0.005
2/10/2020		<0.005	0.0016 (J)				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				0.014	<0.005	
3/18/2020	<0.005		0.00087 (J)				
3/19/2020		<0.005		<0.005	0.014	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005		<0.005	<0.005
9/24/2020					0.0064		
9/25/2020	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					0.0078		
2/12/2021		0.00086 (J)	0.0028 (J)				
3/1/2021					0.0061		
3/2/2021	<0.005						
3/3/2021		<0.005	0.003 (J)	<0.005		<0.005	<0.005
8/19/2021	<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					0.0038 (J)		
8/30/2022		<0.005		<0.005			
8/31/2022	<0.005		0.00085 (J)		0.004 (J)	<0.005	<0.005
2/7/2023		0.00097 (J)	0.0048 (J)	<0.005			
2/8/2023	<0.005				0.0031 (J)	<0.005	<0.005
8/15/2023	<0.005	<0.005	0.00072 (J)	<0.005		<0.005	
8/16/2023					0.0028 (J)		<0.005
2/20/2024		0.00055 (J)	0.0018 (J)	<0.005	0.0029 (J)	<0.005	<0.005
2/23/2024	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	
8/30/2016							0.0073 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	
11/8/2016					<0.005		
11/14/2016							0.0115
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			
2/21/2017	<0.005	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.005		
2/23/2017			0.002 (J)				
2/24/2017							0.0106
5/3/2017		0.002 (J)					
5/5/2017					<0.005	0.0012 (J)	
5/8/2017	<0.005		0.0029 (J)	0.0023 (J)			0.0099 (J)
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.005		
7/7/2017						0.0012 (J)	
7/10/2017	<0.005	0.002 (J)					
7/11/2017							0.0096 (J)
10/10/2017							0.0036 (J)
3/29/2018			0.0495 (D)	<0.005			
3/30/2018	<0.005	<0.005			<0.005	<0.005	
4/2/2018							<0.005
6/12/2018				0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	<0.005	0.0017 (J)	0.092				
9/19/2018							0.0036 (J)
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			
10/3/2018					<0.005	0.0013 (J)	
2/27/2019	<0.005	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	
4/1/2019			0.025	0.0023 (J)	<0.005		
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
8/20/2019							0.00092 (J)
9/25/2019	<0.005	0.0033 (J)					
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
10/8/2019							0.0014 (J)
2/13/2020	<0.005	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	
3/17/2020							0.0017 (J)
3/19/2020		0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020	<0.005		0.014	0.0022 (J)			
8/27/2020							0.0011 (J)
9/22/2020							0.00097 (J)
9/24/2020	<0.005	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	
2/10/2021	<0.005	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/1/2021							0.001 (J)
3/2/2021		0.0021 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	<0.005		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	
8/19/2021		0.0017 (J)					0.00099 (J)
8/20/2021	<0.005		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	
2/8/2022				0.0017 (J)	<0.005	0.00091 (J)	0.0013 (J)
2/10/2022	<0.005	0.0026 (J)	0.0051				
8/31/2022	<0.005	0.0026 (J)					0.00096 (J)
9/1/2022			0.0096	0.0015 (J)	<0.005	0.00071 (J)	
2/8/2023							0.0011 (J)
2/9/2023	<0.005	0.0017 (J)	0.0083	0.0015 (J)	<0.005	0.00074 (J)	
8/15/2023							0.00072 (J)
8/16/2023					<0.005	0.0008 (J)	
8/17/2023	<0.005	0.00088 (J)	0.0079	0.0014 (J)			
2/20/2024							0.0011 (J)
2/21/2024			0.016	0.0016 (J)	<0.005	0.00074 (J)	
2/22/2024	<0.005	0.0012 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.005	0.00061 (J)				
6/7/2016	<0.005			<0.005	0.0056		
7/27/2016	<0.005	<0.005	0.0004 (J)	<0.005			
7/28/2016					0.0032 (J)		
9/16/2016	<0.005		0.0008 (J)				
9/19/2016		<0.005		<0.005	0.0047 (J)		
11/2/2016				<0.005			
11/3/2016	<0.005	<0.005	<0.005		0.013		
1/11/2017	<0.005	<0.005	<0.005				
1/13/2017				<0.005	0.011		
3/1/2017		<0.005	<0.005				
3/2/2017	<0.005						
3/6/2017				<0.005	0.011		
4/26/2017		<0.005	<0.005	<0.005	0.009 (J)		
5/2/2017	<0.005						
6/28/2017		<0.005	<0.005				
6/29/2017	<0.005			<0.005	0.0093 (J)		
10/11/2017						<0.005	
10/12/2017							<0.005
11/20/2017						<0.005	<0.005
1/10/2018							<0.005
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	<0.005				
3/29/2018				<0.005	<0.005		
4/3/2018						<0.005	<0.005
6/5/2018					0.0041 (J)		
6/6/2018				<0.005			
6/7/2018		<0.005					
6/11/2018	<0.005		<0.005				
6/28/2018						<0.005	<0.005
8/7/2018						<0.005	<0.005
9/24/2018						<0.005	<0.005
9/25/2018	<0.005	<0.005	<0.005	<0.005	0.0044 (J)		
3/5/2019	<0.005		<0.005	<0.005	0.0039 (J)		
3/6/2019		<0.005					
4/2/2019	<0.005				0.0039 (J)		
4/3/2019		<0.005	<0.005	<0.005			
8/21/2019						0.00034 (J)	<0.005
9/24/2019					0.0032 (J)		
9/25/2019	<0.005			<0.005			
9/26/2019		<0.005	<0.005				
10/9/2019						<0.005	<0.005
2/11/2020	<0.005	<0.005	<0.005				
2/12/2020				<0.005	0.0081	0.00034 (J)	<0.005
3/24/2020	<0.005	<0.005	<0.005	<0.005	0.0061		<0.005
3/25/2020						0.00034 (J)	
9/23/2020	<0.005	<0.005	<0.005				
9/24/2020				<0.005	0.0079	0.00053 (J)	<0.005
2/9/2021		<0.005	<0.005	<0.005	0.009		
2/10/2021						0.00098 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.005	<0.005	<0.005	<0.005			
3/4/2021					0.0065	0.00071 (J)	<0.005
8/26/2021			<0.005			0.0011 (J)	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					0.0068		
9/3/2021							<0.005
2/8/2022						0.0012 (J)	<0.005
2/9/2022	<0.005	<0.005	<0.005	<0.005	0.0078		
8/30/2022	<0.005	<0.005	<0.005		0.0066		
8/31/2022				<0.005		0.00085 (J)	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	0.014	0.00066 (J)	
2/8/2023							<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	0.011	0.00072 (J)	<0.005
2/20/2024	<0.005	<0.005		<0.005	0.02	0.00073 (J)	<0.005
2/23/2024			<0.005				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				0.0067	
9/11/2007				<0.005	
3/20/2008				<0.005	
8/27/2008				<0.005	
3/3/2009				<0.005	
11/18/2009				<0.005	
3/3/2010				0.0027	
9/8/2010				0.007	
3/10/2011				<0.005	
9/8/2011				<0.005	
3/5/2012				0.0032	
9/10/2012				<0.005	
2/6/2013				<0.005	
8/12/2013				0.0045	
2/5/2014				<0.005	
8/5/2014				0.0027	
2/4/2015				0.0016	
8/3/2015				0.002	
2/16/2016				0.0027	
6/2/2016	0.00082 (J)	<0.005	<0.005		
6/9/2016					0.00052 (J)
7/26/2016	0.0012 (J)	<0.005	<0.005		
8/2/2016					0.0006 (J)
8/31/2016				0.0053 (J)	
9/14/2016	0.0006 (J)	<0.005	<0.005		
9/21/2016					0.0007 (J)
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				0.0036 (J)	
1/12/2017		<0.005	<0.005		
1/13/2017	0.0029 (J)				
1/19/2017					<0.005
2/22/2017				0.0049 (J)	<0.005
3/6/2017	0.0006 (J)				
3/7/2017		<0.005	<0.005		
5/1/2017	<0.005	<0.005			
5/2/2017			<0.005		
5/8/2017				0.0059 (J)	<0.005
6/27/2017		<0.005	<0.005		
6/29/2017	0.0005 (J)				
7/5/2017					0.0003 (J)
7/17/2017				0.0046 (J)	
10/16/2017				0.0034 (J)	
2/19/2018				<0.005	
3/29/2018	<0.005	<0.005	<0.005		<0.005
6/6/2018		<0.005			
6/7/2018	0.00058 (J)		<0.005		
6/11/2018					<0.005
8/6/2018				0.003 (J)	
9/26/2018	<0.005	<0.005	<0.005		
10/2/2018					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/25/2019				0.001 (J)	
2/27/2019					<0.005
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
4/3/2019	0.00083 (J)	<0.005	<0.005		
6/12/2019				0.003 (J)	
8/19/2019				0.0035 (J)	
9/24/2019		<0.005	<0.005		
9/25/2019	<0.005				<0.005
10/8/2019				0.0039 (J)	
2/12/2020	<0.005	0.00037 (J)	<0.005		
2/13/2020					<0.005
3/17/2020				0.003 (J)	
3/20/2020					<0.005
3/24/2020		0.00035 (J)	<0.005		
3/25/2020	0.00056 (J)				
8/26/2020				0.2 (O)	
9/22/2020	<0.005	<0.005	<0.005	0.16 (O)	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					0.00094 (J)
3/2/2021		<0.005	<0.005	0.21 (O)	
3/3/2021	<0.005				<0.005
8/20/2021				0.074 (O)	<0.005
8/26/2021	0.00042 (J)	<0.005	<0.005		
2/8/2022				0.072 (O)	<0.005
2/10/2022		<0.005	<0.005		
2/11/2022	<0.005				
8/30/2022		<0.005	<0.005	0.075 (O)	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		<0.005		0.034	
2/8/2023					0.0053
2/9/2023	<0.005		<0.005		
8/2/2023					0.0027 (J)
8/15/2023	<0.005	<0.005	<0.005	0.031	
2/20/2024	<0.005	<0.005	<0.005	0.023	
2/22/2024					0.0071

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.321 (U)	0.42				0.896
6/2/2016	0.329 (U)				0.0652 (U)	2.51	
7/25/2016			1.83		3.01		2.28
7/26/2016	1.51	0.707 (U)				3.82	
9/13/2016		1.22	0.841				
9/14/2016				0.98 (U)			0.821 (U)
9/15/2016	1.04 (U)					4.24	
9/19/2016					0.871 (U)		
11/1/2016		0.805 (U)			0.307 (U)	3.92	0.585 (U)
11/2/2016	0.496 (U)						
11/4/2016			0.166 (U)	0.277 (U)			
12/15/2016				0.071 (U)			
1/10/2017	0.376 (U)						
1/11/2017		0.705 (U)				2.52	1.22
1/16/2017			0	0.44 (U)	0.284 (U)		
2/21/2017					0.503 (U)		
3/1/2017							0.877 (U)
3/2/2017		0.251 (U)	0.504 (U)			3.13	
3/3/2017				0.448 (U)			
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)				0.204 (U)	2.35	0.672 (U)
4/27/2017		1.08	0.593 (U)				
4/28/2017				0.548 (U)			
5/26/2017				0 (U)			
6/27/2017		1.02 (U)	0.657 (U)				
6/28/2017				0.608 (U)		2.6	1.07 (U)
6/30/2017	0.994				0.738 (U)		
3/27/2018	0.189 (U)		0.39 (U)		0.31 (U)		
3/28/2018				0.412 (U)		3	0.65 (U)
3/29/2018		0.503 (U)					
6/5/2018		0.771 (U)					
6/6/2018			2.8				
6/7/2018				0.73 (U)		2.79	
6/8/2018	0.218 (U)						1.89
6/11/2018					0.608 (U)		
10/1/2018	1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14	1.58
10/2/2018					0.97 (U)		
2/26/2019	0.202 (U)				0.524 (U)		
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)		3.79	3.67
3/28/2019		1.13 (U)	0.125 (U)				
3/29/2019	0 (U)			0.224 (U)			
4/1/2019					1.02 (U)	4.33	2.28
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)			
9/25/2019	0.707 (U)				1.02 (U)	4.2	1.6
2/10/2020		1.41	1.25 (U)				
2/11/2020				0.817 (U)		3.87	1.85
2/12/2020	1.07 (U)				0.301 (U)		
3/18/2020	0.207 (U)		0.458 (U)				
3/19/2020		1.1		0.715 (U)	1	3.96	2.2
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)		4.14	1.14 (U)
9/24/2020					0.684 (U)		
9/25/2020	0.603 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.353 (U)			1.04 (U)		3.65	2.46
2/11/2021					0.678 (U)		
2/12/2021		0.366 (U)	0.458 (U)				
3/1/2021					0.412 (U)		
3/2/2021	0.71 (U)						
3/3/2021		0.492 (U)	0.105 (U)	0.459 (U)		3.58	2.03
8/19/2021	0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53	
8/27/2021				0.409 (U)			1.34
2/9/2022		1.19	0.422 (U)	0.894 (U)		3.28	1.91
2/10/2022	0 (U)				0.268 (U)		
8/30/2022		0.827		0.699 (U)			
8/31/2022	0.421 (U)		0.49 (U)		0.506 (U)	2.12	1.33
2/7/2023		0.92 (U)	0.661 (U)	0.536 (U)			
2/8/2023	0.83 (U)				0.417 (U)	2.74	1.18
8/15/2023	0.652 (U)	0.935 (U)	0.726 (U)	0.611 (U)		2.79	
8/16/2023					0.895 (U)		1.87
2/20/2024		0.274 (U)	0.798 (U)	0.784 (U)	0.375 (U)	2.56	1.09 (U)
2/23/2024	0.736 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	
8/30/2016							1.09
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	
11/8/2016					0.245 (U)		
12/15/2016							1 (U)
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		
2/23/2017			4.73				
2/24/2017							0.504 (U)
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.455 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
7/11/2017							0.471 (U)
10/10/2017							0.649 (U)
3/29/2018			1.41	0.916 (U)			
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
4/2/2018							0.512 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
9/19/2018							0.789 (U)
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	
4/1/2019			5	0.777 (U)	0.162 (U)		
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
8/20/2019							2.44
9/25/2019	1.01 (U)	1.18 (U)					
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
10/8/2019							1.72
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	
3/17/2020							1.22 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			
8/27/2020							1.26 (U)
9/22/2020							1.06 (U)
9/24/2020	<1.53	<1.9	3.42	1.49	<2.15	<1.86	
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	
3/1/2021							1.2
3/2/2021		0.394 (U)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	
8/19/2021		0.531 (U)					1.07 (U)
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.4 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					0.714 (U)
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	
2/8/2023							0.375 (U)
2/9/2023	1.05 (U)	0.46 (U)	2.56	0.348 (U)	0.164 (U)	0.733 (U)	
8/15/2023							0.947 (U)
8/16/2023					0.62 (U)	0.837 (U)	
8/17/2023	0.635 (U)	0.734 (U)	3.48	0.509 (U)			
2/20/2024							0.939 (U)
2/21/2024			3.26	0.669 (U)	0.447 (U)	0.781 (U)	
2/22/2024	0.745 (U)	0.303 (U)					

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		0.0804 (U)	0.301 (U)				
6/7/2016	0.158 (U)			0.0191 (U)	0.347		
7/27/2016	0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)			
7/28/2016					0.815 (U)		
9/16/2016	1.04		0.915 (U)				
9/19/2016		1.58		0.826 (U)	0.862 (U)		
11/2/2016				0.791 (U)			
11/3/2016	0.314 (U)	0.342 (U)	0.928 (U)		0.797 (U)		
1/11/2017	0.34 (U)	0.365 (U)	0.502 (U)				
1/13/2017				0.296 (U)	0.72 (U)		
3/1/2017		0.395 (U)	0.202 (U)				
3/2/2017	0.746 (U)						
3/6/2017				0.518 (U)	0.518 (U)		
4/26/2017		0.507 (U)	0.264 (U)	0.282 (U)	1.13 (U)		
5/2/2017	0.111 (U)						
6/28/2017		0.892	0.636 (U)				
6/29/2017	0.576 (U)			1.12	0.841 (U)		
10/11/2017						0.586 (U)	
10/12/2017							1.49
11/20/2017						0.816 (U)	0.918 (U)
1/10/2018							1.05
1/11/2018						0.841 (U)	
2/19/2018							2.05
2/20/2018						1.58	
3/28/2018	0.438 (U)	0.92 (U)	0.56 (U)				
3/29/2018				1.73	1.91		
4/3/2018						0.385 (U)	0.68 (U)
6/5/2018					1.39		
6/6/2018				0.694 (U)			
6/7/2018		0.668 (U)					
6/11/2018	0.901 (U)		0.649 (U)				
6/28/2018						0.283 (U)	1.28
8/7/2018						0.332 (U)	1.16
9/24/2018						0.767 (U)	0.965 (U)
9/25/2018	0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62		
3/5/2019	0.272 (U)		0.474 (U)	0.84 (U)	0.985 (U)		
3/6/2019		0.714 (U)					
4/2/2019	0.847 (U)				1.42		
4/3/2019		0.385 (U)	0.429 (U)	1.01			
8/21/2019						1.01 (U)	1.24 (U)
9/24/2019					1.35		
9/25/2019	0.412 (U)			1.18 (U)			
9/26/2019		0.386 (U)	0.222 (U)				
10/8/2019						1.02 (U)	0.866 (U)
2/11/2020	0.461 (U)	1.48	0.597 (U)				
2/12/2020				1.11 (U)	1.61	0.45 (U)	1.83
3/24/2020	0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)		1.27 (U)
3/25/2020						0.377 (U)	
9/23/2020	0.466 (U)	0.887 (U)	0.43 (U)				
9/24/2020				0.611 (U)	1.8	0.568 (U)	0.634 (U)
2/9/2021	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24		
2/10/2021						0.518 (U)	0.783 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2		
3/4/2021						0.636 (U)	0.818 (U)
8/26/2021			0.686 (U)			0.674 (U)	
8/27/2021	0.9 (U)	0.761 (U)		0.779 (U)			
9/1/2021					1.86		
9/3/2021							0.971 (U)
2/8/2022						0.834	0.534 (U)
2/9/2022	0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)	1.94		
8/30/2022	1.08	1.01	0.611 (U)		1.27		
8/31/2022				0.184 (U)		0.937	0.513 (U)
2/7/2023	0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)	1.53	1.41	
2/8/2023							1.56
8/15/2023	0.0388 (U)	0.655 (U)	0.347 (U)	0.165 (U)	1.68	0.608 (U)	0.325 (U)
2/20/2024	0.0387 (U)	0.068 (U)		0.165 (U)	1.19	0.701 (U)	0.437 (U)
2/23/2024			0.318 (U)				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	0.721	5.11	0.614		
6/9/2016					0.523
7/26/2016	1.26	6.92	1.47		
8/2/2016					1.25
8/31/2016				1.2	
9/14/2016	0.901 (U)	3.96	1.27		
9/21/2016					1.21 (U)
11/2/2016	1.09 (U)	4.53			
11/4/2016			0.434 (U)		
11/7/2016					1.16
11/28/2016				0.264 (U)	
1/12/2017		4.43	0.202 (U)		
1/13/2017	1.19				
1/19/2017					0.933 (U)
2/22/2017				1.06 (U)	1.45 (U)
3/6/2017	0.669 (U)				
3/7/2017		4.8	0.0674 (U)		
5/1/2017	0.803 (U)	4.16			
5/2/2017			0.444 (U)		
5/8/2017				0.187 (U)	0.21 (U)
6/27/2017		2.8	0.77 (U)		
6/29/2017	1.35				
7/5/2017					0.62 (U)
7/17/2017				1.42	
10/16/2017				1.17	
2/19/2018				1.58 (D)	
3/29/2018	0.703 (U)	3.42	0.648 (U)		1.37
6/6/2018		3.99			
6/7/2018	0.628 (U)		0.745 (U)		
6/11/2018					1.27 (U)
8/6/2018				0.196 (U)	
9/26/2018	0.756 (U)	2.73	0.377 (U)		
10/2/2018					0.442 (U)
2/27/2019					0.902 (U)
3/4/2019	1.21 (U)	4.43	1 (U)		
4/1/2019					0.584 (U)
4/3/2019	1.07 (U)	4.79	0.43 (U)		
8/19/2019				1.39	
9/24/2019		4.06	0.699 (U)		
9/25/2019	1.86				1.03 (U)
10/8/2019				1.32 (U)	
2/12/2020	1.25	4.02	0.913 (U)		
2/13/2020					0.806 (U)
3/17/2020				1 (U)	
3/20/2020					1.42
3/24/2020		3.52			
3/25/2020	0.766 (U)				
8/26/2020				1.75	
9/22/2020	0.795 (U)	2.98	0.428 (U)	0.688 (U)	
9/24/2020					<1.88
2/8/2021		2.89	0.613 (U)		
2/9/2021	0.626 (U)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/12/2021					0.826
3/2/2021		1.67	0.579 (U)	0.948 (U)	
3/3/2021	1				0.955
8/20/2021				0.528 (U)	0.314 (U)
8/26/2021	1.17 (U)	4.68	0.798 (U)		
2/8/2022				0.462 (U)	0.104 (U)
2/10/2022		3.33	0.375 (U)		
2/11/2022	0.996				
8/30/2022		5.34	0.72 (U)	1.52	
8/31/2022	0.962				
9/1/2022					0.445 (U)
2/7/2023		3.99		1	
2/8/2023					0.963 (U)
2/9/2023	1.12		0.0815 (U)		
8/2/2023					1.23
8/15/2023	1.14	3.44	0.846 (U)	0.833 (U)	
2/20/2024	1.1 (U)	2.8	0.63 (U)	0.978 (U)	
2/22/2024					0.871 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.12 (J)	<0.1				0.15 (J)
6/2/2016	<0.1				<0.1	0.62	
7/25/2016			0.06 (J)		0.06 (J)		0.14 (J)
7/26/2016	0.02 (J)	0.08 (J)				0.49	
9/13/2016		0.11 (J)	<0.1				
9/14/2016				0.08 (J)			0.18 (J)
9/15/2016	<0.1					0.54	
9/19/2016					<0.1		
11/1/2016		<0.3			<0.1	0.68	<0.1
11/2/2016	<0.1						
11/4/2016			<0.1	<0.3			
12/15/2016				0.06 (J)			
1/10/2017	<0.1						
1/11/2017		0.05 (J)				0.49	0.09 (J)
1/16/2017			<0.1	0.1 (J)	<0.1		
2/21/2017					<0.1		
3/1/2017							<0.1
3/2/2017		<0.3	<0.1			0.48	
3/3/2017				<0.3			
3/8/2017	<0.1						
4/26/2017	<0.1				<0.1	0.48	0.08 (J)
4/27/2017		0.04 (J)	0.01 (J)				
4/28/2017				0.06 (J)			
5/26/2017				0.09 (J)			
6/27/2017		<0.3	<0.1				
6/28/2017				0.11 (J)		0.47	0.12 (J)
6/30/2017	<0.1				<0.1		
10/3/2017		<0.3	<0.1	<0.3			
10/4/2017					<0.1	<0.47	<0.1
10/5/2017	<0.1						
3/27/2018	<0.1		<0.1		<0.1		
3/28/2018				0.31		0.56	<0.1
3/29/2018		<0.3					
6/5/2018		0.055 (J)					
6/6/2018			<0.1				
6/7/2018				0.11 (J)		0.48	
6/8/2018	<0.1						0.2 (J)
6/11/2018					<0.1		
10/1/2018	<0.1	<0.3	<0.1	<0.3		0.44	<0.1
10/2/2018					<0.1		
2/26/2019	<0.1				<0.1		
2/27/2019		0.052 (J)	<0.1	0.12 (J)		0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.1				
3/29/2019	<0.1			0.13 (J)			
4/1/2019					<0.1	0.45	0.1 (J)
9/24/2019		0.063 (J)	<0.1	0.081 (J)			
9/25/2019	<0.1				<0.1	0.46	0.1 (J)
2/10/2020		0.061 (J)	<0.1				
2/11/2020				0.075 (J)			0.094 (J)
2/12/2020	<0.1				<0.1	0.4	
3/18/2020	<0.1		<0.1				
3/19/2020		0.064 (J)		0.093 (J)	<0.1	0.51	0.11 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		0.058 (J)	<0.1	0.08 (J)		0.47	0.098 (J)
9/24/2020					<0.1		
9/25/2020	<0.1						
2/10/2021	<0.1			0.094 (J)		0.43	<0.1
2/11/2021					<0.1		
2/12/2021		0.068 (J)	<0.1				
3/1/2021					<0.1		
3/2/2021	<0.1						
3/3/2021		0.078 (J)	<0.1	0.085 (J)		0.44	0.1
8/19/2021	<0.1	0.074 (J)	<0.1		<0.1	0.47	
8/27/2021				0.12			0.12
2/9/2022		0.057 (J)	<0.1	0.094 (J)		0.43	0.097 (J)
2/10/2022	<0.1						
2/11/2022					<0.1		
8/30/2022		0.093 (J)		0.12			
8/31/2022	0.053 (J)		0.065 (J)		0.06 (J)	0.42	0.13
2/7/2023		0.093 (J)	0.071 (J)	0.12			
2/8/2023	0.059 (J)				0.064 (J)	0.56	0.16
8/15/2023	<0.1	0.057 (J)	<0.1	0.081 (J)		0.42	
8/16/2023					<0.1		0.11
2/20/2024		0.086 (J)	<0.1	0.1	0.051 (J)	0.45	0.12
2/23/2024	<0.1						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	
8/30/2016							0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.3	0.32			
9/21/2016					0.08 (J)	0.25 (J)	
11/7/2016	<0.1 (*)	0.44	<0.3 (*)	<0.1 (*)		0.27 (J)	
11/8/2016					0.24 (J)		
11/14/2016							0.18 (J)
1/18/2017	0.11 (J)	<0.1 (*)	<0.3 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.3 (*)		
2/23/2017			<0.3 (*)				
2/24/2017							0.05 (J)
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.03 (J)
6/30/2017			<0.3 (*)	0.2 (J)			
7/5/2017					0.11 (J)		
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
7/11/2017							0.07 (J)
10/5/2017					<0.3 (*)		
10/6/2017				<0.1 (*)			
10/9/2017			<0.3 (*)			<0.3 (*)	
10/10/2017	<0.1	<0.1					<0.1
3/29/2018			<0.3	0.49			
3/30/2018	<0.1	0.35			<0.3	<0.3	
4/2/2018							<0.1
6/12/2018				0.037 (J)	<0.3	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.3				
9/19/2018							<0.1
10/2/2018	<0.1	<0.1	<0.3	<0.1			
10/3/2018					<0.3	0.31	
2/27/2019	<0.1	<0.1	<0.3	0.14 (J)	0.14 (J)	0.22 (J)	
3/27/2019							0.081 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
8/20/2019							<0.1
9/25/2019	0.064 (J)	<0.1					
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
10/8/2019							0.034 (J)
2/13/2020	<0.1	<0.1	<0.3	0.11 (J)	0.14 (J)	0.18 (J)	
3/17/2020							<0.1
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.3	0.097 (J)			
8/27/2020							<0.1
9/22/2020							<0.1
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	
3/1/2021							<0.1
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	
8/19/2021		<0.1					<0.1
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	
2/8/2022				0.087 (J)	0.063 (J)	0.14	<0.1
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					0.065 (J)
9/1/2022			0.1	0.12	0.11	0.16	
2/8/2023							0.077 (J)
2/9/2023	0.088 (J)	0.07 (J)	0.1	0.12	0.14	0.18	
8/15/2023							<0.1
8/16/2023					0.078 (J)	0.18	
8/17/2023	0.073 (J)	0.06 (J)	0.081 (J)	0.098 (J)			
2/20/2024							0.073 (J)
2/21/2024			0.082 (J)	0.11	0.096 (J)	0.15	
2/22/2024	0.057 (J)	<0.1					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.1	<0.1				
6/7/2016	<0.1			<0.1	<0.3		
7/27/2016	<0.1	<0.1	<0.1	<0.1			
7/28/2016					0.02 (J)		
9/16/2016	<0.1		<0.1				
9/19/2016		<0.1		<0.1	0.02 (J)		
11/2/2016				<0.1			
11/3/2016	<0.1	<0.1	<0.1		<0.3		
1/11/2017	<0.1	<0.1	<0.1				
1/13/2017				<0.1	<0.3		
3/1/2017		<0.1	<0.1				
3/2/2017	<0.1						
3/6/2017				<0.1	<0.3		
4/26/2017		<0.1	<0.1	<0.1	0.04 (J)		
5/2/2017	<0.1						
6/28/2017		<0.1	<0.1				
6/29/2017	<0.1			<0.1	<0.3		
10/3/2017					<0.3		
10/4/2017	<0.1		<0.1	<0.1			
10/5/2017		<0.1					
10/11/2017						<0.1	
10/12/2017							<0.1
11/20/2017						<0.1	<0.1
1/10/2018							<0.1
1/11/2018						<0.1	
2/19/2018							<0.1
2/20/2018						0.23	
3/28/2018	<0.1	<0.1	<0.1				
3/29/2018				<0.1	<0.3		
4/3/2018						<0.1	<0.1
6/5/2018					0.13 (J)		
6/6/2018				<0.1			
6/7/2018		<0.1					
6/11/2018	<0.1		<0.1				
6/28/2018						<0.1	<0.1
8/7/2018						0.048 (J)	<0.1
9/24/2018						<0.1	<0.1
9/25/2018	<0.1	<0.1	<0.1	<0.1	0 (J)		
3/5/2019	<0.1		<0.1	<0.1	0.32		
3/6/2019		<0.1					
3/26/2019							<0.1
3/27/2019						<0.1	
4/2/2019	<0.1				0.12 (J)		
4/3/2019		<0.1	<0.1	<0.1			
8/21/2019						<0.1	<0.1
9/24/2019					0.15 (J)		
9/25/2019	<0.1			<0.1			
9/26/2019		<0.1	<0.1				
10/9/2019						<0.1	<0.1
2/11/2020	<0.1	<0.1	<0.1				
2/12/2020				<0.1	0.1 (J)	<0.1	<0.1
3/24/2020	<0.1	<0.1	<0.1	<0.1	0.081 (J)		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/25/2020						<0.1	
9/23/2020	<0.1	<0.1	<0.1				
9/24/2020				<0.1	0.079 (J)	<0.1	<0.1
2/9/2021		<0.1	<0.1	<0.1	0.092 (J)		
2/10/2021						<0.1	<0.1
3/3/2021	<0.1	<0.1	<0.1	<0.1			
3/4/2021					0.091 (J)	<0.1	<0.1
8/26/2021			<0.1			0.063 (J)	
8/27/2021	<0.1	<0.1		<0.1			
9/1/2021					0.11		
9/3/2021							<0.1
2/8/2022						0.052 (J)	<0.1
2/9/2022	<0.1	<0.1	<0.1	<0.1	0.1		
8/30/2022	<0.1	<0.1	<0.1		0.1		
8/31/2022				<0.1		0.065 (J)	0.05 (J)
2/7/2023	<0.1	<0.1	<0.1	<0.1	0.1	0.076 (J)	
2/8/2023							<0.1
8/15/2023	<0.1	<0.1	<0.1	<0.1	0.061 (J)	<0.1	<0.1
2/20/2024	<0.1	<0.1		<0.1	0.083 (J)	0.063 (J)	<0.1
2/23/2024			<0.1				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	<0.1	0.11 (J)	<0.1		
6/9/2016					0.085 (J)
7/26/2016	<0.1	0.05 (J)	<0.1		
8/2/2016					0.09 (J)
8/31/2016				0.14 (J)	
9/14/2016	<0.1	0.04 (J)	<0.1		
9/21/2016					0.09 (J)
11/2/2016	<0.1	<0.1			
11/4/2016			<0.1		
11/7/2016					<0.3 (*)
11/28/2016				0.12 (J)	
1/12/2017		0.04 (J)	<0.1		
1/13/2017	<0.1				
1/19/2017					<0.3 (*)
2/22/2017				0.09 (J)	<0.3 (*)
3/6/2017	<0.1				
3/7/2017		<0.1	<0.1		
5/1/2017	<0.1	<0.1			
5/2/2017			<0.1		
5/8/2017				0.05 (J)	0.06 (J)
6/27/2017		<0.1	<0.1		
6/29/2017	<0.1				
7/5/2017					0.08 (J)
7/17/2017				0.14 (J)	
10/3/2017		<0.1	<0.1		
10/5/2017	<0.1				<0.3 (*)
10/16/2017				0.12 (J)	
2/19/2018				0.17	
3/29/2018	<0.1	<0.1	<0.1		<0.3
6/6/2018		0.15 (J)			
6/7/2018	<0.1		<0.1		
6/11/2018					<0.3
8/6/2018				0.087 (J)	
9/26/2018	<0.1	<0.1	<0.1		
10/2/2018					<0.3
2/25/2019				0.14 (J)	
2/27/2019					0.15 (J)
3/4/2019	<0.1	0.19 (J)	<0.1		
4/1/2019					0.059 (J)
4/3/2019	<0.1	0.047 (J)	<0.1		
6/12/2019				0.12 (J)	
8/19/2019				<0.3	
9/24/2019		0.05 (J)	<0.1		
9/25/2019	<0.1				0.054 (J)
10/8/2019				0.052 (J)	
2/12/2020	<0.1	<0.1	<0.1		
2/13/2020					0.053 (J)
3/17/2020				0.053 (J)	
3/20/2020					0.057 (J)
3/24/2020		<0.1	<0.1		
3/25/2020	<0.1				
8/26/2020				0.068 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
9/22/2020	<0.1	0.056 (J)	<0.1	0.058 (J)	
9/24/2020					0.06 (J)
2/8/2021		0.055 (J)	<0.1		
2/9/2021	<0.1				
2/12/2021					0.17
3/2/2021		<0.1	<0.1	0.073 (J)	
3/3/2021	<0.1				0.056 (J)
8/20/2021				0.06 (J)	0.069 (J)
8/26/2021	<0.1	0.061 (J)	<0.1		
2/8/2022				0.064 (J)	0.053 (J)
2/10/2022		0.055 (J)	<0.1		
2/11/2022	<0.1				
8/30/2022		0.085 (J)	<0.1	0.086 (J)	
8/31/2022	0.061 (J)				
9/1/2022					0.091 (J)
2/7/2023		0.082 (J)		0.095 (J)	
2/8/2023					0.092 (J)
2/9/2023	0.067 (J)		<0.1		
8/2/2023					0.054 (J)
8/15/2023	<0.1	<0.1	<0.1	0.065 (J)	
2/20/2024	0.059 (J)	0.076 (J)	<0.1	0.094 (J)	
2/22/2024					0.075 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.00056 (J)	<0.001				<0.001
6/2/2016	<0.001				<0.001	0.00056 (J)	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					0.0002 (J)	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		0.0001 (J)	<0.001			0.0002 (J)	
3/3/2017				<0.001			
3/8/2017	0.0001 (J)						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		4.9E-05 (J)	<0.001				
2/11/2020				<0.001			<0.001
2/12/2020	<0.001				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		0.00012 (J)		<0.001	<0.001	0.00017 (J)	<0.001
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)		<0.001	0.00015 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	4.8E-05 (J)			0.00015 (J)		<0.001	<0.001
2/11/2021					4.6E-05 (J)		
2/12/2021		4.4E-05 (J)	0.00038 (J)				
3/1/2021					<0.001		
3/2/2021	<0.001						
3/3/2021		5.6E-05 (J)	<0.001	<0.001		<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001		<0.001	<0.001	
8/27/2021				<0.001			<0.001
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		
8/30/2022		<0.001		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/31/2022	<0.001		<0.001		<0.001	<0.001	<0.001
2/7/2023		<0.001	<0.001	<0.001			
2/8/2023	<0.001				<0.001	<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001		<0.001	
8/16/2023					<0.001		<0.001
2/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024	<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.001	<0.001	<0.001	<0.001 (*)			
6/9/2016					<0.001	<0.001	
8/1/2016	<0.001	<0.001	<0.001	<0.001			
8/2/2016					<0.001	<0.001	
8/30/2016							<0.001
9/20/2016	<0.001	<0.001	<0.001	0.0002 (J)			
9/21/2016					<0.001	<0.001	
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	
11/8/2016					<0.001		
11/14/2016							<0.001
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		
2/23/2017			<0.001				
2/24/2017							<0.001
5/3/2017		<0.001 (*)					
5/5/2017					<0.001	<0.001 (*)	
5/8/2017	<0.001		<0.001	<0.001			<0.001
6/30/2017			<0.001	<0.001			
7/5/2017					<0.001		
7/7/2017						7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)					
7/11/2017							<0.001
10/10/2017							<0.001
3/29/2018			<0.001	<0.001			
3/30/2018	<0.001	<0.001			<0.001	<0.001	
4/2/2018							<0.001
9/19/2018							<0.001
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/20/2019							<0.001
2/13/2020	<0.001	<0.001	<0.001	6.2E-05 (J)	<0.001	5.4E-05 (J)	
3/19/2020		0.0001 (J)			<0.001	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.001	8.5E-05 (J)			
8/27/2020							<0.001
9/22/2020							<0.001
9/24/2020	<0.001	6.4E-05 (J)	<0.001	0.00037 (J)	<0.001	6.3E-05 (J)	
2/10/2021	5.1E-05 (J)	5E-05 (J)	<0.001	0.00072 (J)			
2/11/2021					<0.001		
2/12/2021						5.2E-05 (J)	
3/1/2021							<0.001
3/2/2021		5.6E-05 (J)					
3/3/2021	<0.001		<0.001	<0.001	<0.001	<0.001	
8/19/2021		<0.001					<0.001
8/20/2021	<0.001		<0.001	0.00096 (J)	<0.001	<0.001	
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					<0.001
9/1/2022			<0.001	<0.001	<0.001	<0.001	
2/8/2023							<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/15/2023							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/16/2023					<0.001	<0.001	
8/17/2023	<0.001	<0.001	<0.001	<0.001			
2/20/2024							<0.001
2/21/2024			<0.001	<0.001	<0.001	<0.001	
2/22/2024	<0.001	<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.001	<0.001				
6/7/2016	<0.001			<0.001	<0.001		
7/27/2016	<0.001	<0.001	<0.001	<0.001			
7/28/2016					<0.001		
9/16/2016	<0.001		<0.001				
9/19/2016		<0.001		<0.001	<0.001		
11/2/2016				0.0013 (J)			
11/3/2016	<0.001	<0.001	<0.001		<0.001		
1/11/2017	<0.001	<0.001	<0.001				
1/13/2017				<0.001	<0.001		
3/1/2017		<0.001	<0.001				
3/2/2017	8E-05 (J)						
3/6/2017				<0.001	<0.001		
4/26/2017		<0.001	<0.001	<0.001	<0.001		
5/2/2017	<0.001						
6/28/2017		<0.001	0.0001 (J)				
6/29/2017	8E-05 (J)			<0.001	<0.001		
10/11/2017						0.0001 (J)	
10/12/2017							9E-05 (J)
11/20/2017						<0.001	<0.001
1/10/2018							<0.001
1/11/2018						0.0002 (J)	
2/19/2018							<0.001
2/20/2018						<0.001	
3/28/2018	<0.001	<0.001	<0.001				
3/29/2018				<0.001	<0.001		
4/3/2018						<0.001	<0.001
6/28/2018						<0.001	<0.001
8/7/2018						<0.001	<0.001
9/24/2018						<0.001	<0.001
3/5/2019	<0.001		<0.001	<0.001	<0.001		
3/6/2019		<0.001					
4/2/2019	<0.001				<0.001		
4/3/2019		<0.001	<0.001	<0.001			
8/21/2019						<0.001	<0.001
9/24/2019					<0.001		
9/25/2019	<0.001			<0.001			
9/26/2019		<0.001	<0.001				
10/9/2019						<0.001	<0.001
2/11/2020	<0.001	<0.001	<0.001				
2/12/2020				<0.001	<0.001	<0.001	<0.001
3/24/2020	6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001		<0.001
3/25/2020						5.1E-05 (J)	
9/23/2020	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)				
9/24/2020				9.2E-05 (J)	4.6E-05 (J)	<0.001	3.8E-05 (J)
2/9/2021		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001		
2/10/2021						<0.001	<0.001
3/3/2021	<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)			
3/4/2021					<0.001	<0.001	<0.001
8/26/2021			<0.001			<0.001	
8/27/2021	<0.001	<0.001		<0.001			
9/1/2021					<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/3/2021							<0.001
2/8/2022						<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/30/2022	<0.001	<0.001	<0.001		<0.001		
8/31/2022				<0.001		<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/8/2023							<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/23/2024			<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.001	
9/11/2007				<0.001	
3/20/2008				<0.001	
8/27/2008				<0.001	
3/3/2009				<0.001	
11/18/2009				<0.001	
3/3/2010				<0.001	
9/8/2010				<0.001	
3/10/2011				<0.001	
9/8/2011				<0.001	
3/5/2012				<0.001	
9/10/2012				<0.001	
2/6/2013				<0.001	
8/12/2013				<0.001	
2/5/2014				<0.001	
8/5/2014				<0.001	
2/4/2015				<0.001	
8/3/2015				<0.001	
2/16/2016				<0.001	
6/2/2016	<0.001	<0.001	<0.001		
6/9/2016					<0.001
7/26/2016	<0.001	<0.001	<0.001		
8/2/2016					<0.001
8/31/2016				<0.001	
9/14/2016	<0.001	<0.001	<0.001		
9/21/2016					<0.001
11/2/2016	<0.001	<0.001			
11/4/2016			<0.001		
11/7/2016					<0.001
11/28/2016				<0.001	
1/12/2017		<0.001	<0.001		
1/13/2017	<0.001				
1/19/2017					<0.001
2/22/2017				<0.001	<0.001
3/6/2017	<0.001				
3/7/2017		0.0001 (J)	7E-05 (J)		
5/1/2017	<0.001	<0.001			
5/2/2017			<0.001		
5/8/2017				<0.001	<0.001
6/27/2017		<0.001	<0.001		
6/29/2017	<0.001				
7/5/2017					<0.001
7/17/2017				<0.001	
10/16/2017				<0.001	
2/19/2018				<0.001	
3/29/2018	<0.001	<0.001	<0.001		<0.001
8/6/2018				<0.001	
2/25/2019				<0.001	
2/27/2019					<0.001
3/4/2019	<0.001	<0.001	<0.001		
4/3/2019	<0.001	<0.001	<0.001		
6/12/2019				<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
8/19/2019				<0.001	
9/24/2019		<0.001	9E-05 (J)		
9/25/2019	<0.001				
10/8/2019				<0.001	
2/12/2020	<0.001	<0.001	<0.001		
2/13/2020					<0.001
3/17/2020				<0.001	
3/20/2020					<0.001
3/24/2020		5.4E-05 (J)	6.8E-05 (J)		
3/25/2020	<0.001				
8/26/2020				<0.001	
9/22/2020	<0.001	4.5E-05 (J)	4.2E-05 (J)	0.0001 (J)	
9/24/2020					9.5E-05 (J)
2/8/2021		0.00013 (J)	3.7E-05 (J)		
2/9/2021	<0.001				
2/12/2021					6.6E-05 (J)
3/2/2021		5.1E-05 (J)	9.2E-05 (J)	<0.001	
3/3/2021	<0.001				0.00016 (J)
8/20/2021				<0.001	<0.001
8/26/2021	<0.001	<0.001	<0.001		
2/8/2022				<0.001	<0.001
2/10/2022		<0.001	<0.001		
2/11/2022	<0.001				
8/30/2022		<0.001	<0.001	<0.001	
8/31/2022	<0.001				
9/1/2022					<0.001
2/7/2023		<0.001		<0.001	
2/8/2023					<0.001
2/9/2023	<0.001		<0.001		
8/2/2023					<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	
2/20/2024	<0.001	<0.001	<0.001	<0.001	
2/22/2024					<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.015	<0.03				0.01
6/2/2016	<0.03				<0.03	0.018	
7/25/2016			0.002 (J)		<0.03		0.0132 (J)
7/26/2016	<0.03	0.0135 (J)				0.0221 (J)	
9/13/2016		0.0112 (J)	<0.03				
9/14/2016				0.004 (J)			0.012 (J)
9/15/2016	<0.03					0.0197 (J)	
9/19/2016					<0.03		
11/1/2016		0.0163 (J)			<0.03	0.0194 (J)	0.0115 (J)
11/2/2016	<0.03						
11/4/2016			<0.03	<0.03			
12/15/2016				0.0026 (J)			
1/10/2017	<0.03						
1/11/2017		0.0166 (J)				0.0177 (J)	0.0085 (J)
1/16/2017			0.0023 (J)	0.0023 (J)	<0.03		
2/21/2017					<0.03		
3/1/2017							0.0114 (J)
3/2/2017		0.0159 (J)	0.0025 (J)			0.0185 (J)	
3/3/2017				0.0013 (J)			
3/8/2017	<0.03						
4/26/2017	<0.03				<0.03	0.0183 (J)	0.0092 (J)
4/27/2017		0.0137 (J)	0.0027 (J)				
4/28/2017				0.0031 (J)			
5/26/2017				0.0038 (J)			
6/27/2017		0.0094 (J)	0.0024 (J)				
6/28/2017				0.0026 (J)		0.0173 (J)	0.0085 (J)
6/30/2017	<0.03				<0.03		
3/27/2018	<0.03		0.0023 (J)		0.0011 (J)		
3/28/2018				0.0025 (J)		0.02 (J)	0.013 (J)
3/29/2018		0.0078 (J)					
6/5/2018		0.0079 (J)					
6/6/2018			0.0024 (J)				
6/7/2018				0.0017 (J)		0.02 (J)	
6/8/2018	<0.03						0.012 (J)
6/11/2018					0.0012 (J)		
10/1/2018	<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)	0.011 (J)
10/2/2018					<0.03		
2/26/2019	<0.03				0.0011 (J)		
2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)	0.014 (J)
3/28/2019		0.013 (J)	0.0022 (J)				
3/29/2019	<0.03			0.0016 (J)			
4/1/2019					0.001 (J)	0.021 (J)	0.013 (J)
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)			
9/25/2019	<0.03				0.0011 (J)	0.02 (J)	0.01 (J)
2/10/2020		0.011 (J)	0.0023 (J)				
2/11/2020				0.0012 (J)			0.013 (J)
2/12/2020	<0.03				0.0013 (J)	0.019 (J)	
3/18/2020	<0.03		0.0024 (J)				
3/19/2020		0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)	0.014 (J)
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)	0.013 (J)
9/24/2020					0.0011 (J)		
9/25/2020	<0.03						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.03			0.0039 (J)		0.023 (J)	0.015 (J)
2/11/2021					0.0012 (J)		
2/12/2021		0.01 (J)	0.0025 (J)				
3/1/2021					0.0011 (J)		
3/2/2021	<0.03						
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)	0.017 (J)
8/19/2021	<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)	
8/27/2021				0.0058 (J)			0.026 (J)
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)	0.021 (J)
2/10/2022	<0.03						
2/11/2022					0.0014 (J)		
8/30/2022		0.013 (J)		0.0044 (J)			
8/31/2022	<0.03		<0.03		0.0012 (J)	0.021 (J)	0.022 (J)
2/7/2023		0.006 (J)	0.0029 (J)	0.0047 (J)			
2/8/2023	<0.03				0.0011 (J)	0.023 (J)	0.018 (J)
8/15/2023	<0.03	0.0079 (J)	0.002 (J)	<0.03		0.023 (J)	
8/16/2023					<0.03		0.025 (J)
2/20/2024		0.0071 (J)	<0.03	0.0021 (J)	<0.03	0.021 (J)	0.02 (J)
2/23/2024	<0.03						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	
8/30/2016							0.0061 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	
11/8/2016					0.0072 (J)		
11/14/2016							0.0064 (J)
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		
2/23/2017			0.0099 (J)				
2/24/2017							0.0049 (J)
5/3/2017		<0.03					
5/5/2017					0.007 (J)	<0.03	
5/8/2017	0.007 (J)		0.0086 (J)	<0.03			0.0053 (J)
6/30/2017			0.0108 (J)	<0.03			
7/5/2017					0.0072 (J)		
7/7/2017						<0.03	
7/10/2017	0.0064 (J)	<0.03					
7/11/2017							0.0051 (J)
10/10/2017							0.0043 (J)
3/29/2018			0.011 (J)	<0.03			
3/30/2018	0.0068 (J)	<0.03			0.007 (J)	<0.03	
4/2/2018							0.0045 (J)
6/12/2018				<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	<0.03	0.014 (J)				
9/19/2018							0.0043 (J)
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			
10/3/2018					0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	<0.03	0.0096 (J)	<0.03	0.0063 (J)	<0.03	
4/1/2019			0.0082 (J)	<0.03	0.0065 (J)		
4/2/2019	0.0064 (J)	<0.03				<0.03	
8/20/2019							0.0036 (J)
9/25/2019	0.0073 (J)	<0.03					
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
10/8/2019							0.0036 (J)
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	
3/17/2020							0.0046 (J)
3/19/2020		<0.03			0.007 (J)	<0.03	
3/20/2020	0.0072 (J)		0.0091 (J)	<0.03			
8/27/2020							0.0039 (J)
9/22/2020							0.0036 (J)
9/24/2020	0.0074 (J)	<0.03	0.0075 (J)	<0.03	0.0065 (J)	<0.03	
2/10/2021	0.0067 (J)	<0.03	0.0067 (J)	0.00081 (J)			
2/11/2021					0.007 (J)		
2/12/2021						0.0053 (J)	
3/1/2021							0.0037 (J)
3/2/2021		<0.03					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	0.0077 (J)		0.0066 (J)	<0.03	0.0063 (J)	<0.03	
8/19/2021		<0.03					0.0038 (J)
8/20/2021	0.0079 (J)		0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	
2/8/2022				<0.03	0.0076 (J)	<0.03	0.0039 (J)
2/10/2022	0.0086 (J)	<0.03	0.0072 (J)				
8/31/2022	0.0074 (J)	<0.03					0.0037 (J)
9/1/2022			0.0069 (J)	<0.03	0.0066 (J)	<0.03	
2/8/2023							0.0037 (J)
2/9/2023	0.0075 (J)	<0.03	0.0069 (J)	<0.03	0.0066 (J)	<0.03	
8/15/2023							0.004 (J)
8/16/2023					0.0058 (J)	<0.03	
8/17/2023	0.0077 (J)	<0.03	0.0067 (J)	<0.03			
2/20/2024							0.0036 (J)
2/21/2024			0.007 (J)	<0.03	0.0056 (J)	<0.03	
2/22/2024	0.0078 (J)	<0.03					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		0.0088	0.015				
6/7/2016	<0.03			<0.03	0.0055		
7/27/2016	<0.03	0.0087 (J)	0.0049 (J)	<0.03			
7/28/2016					0.0045 (J)		
9/16/2016	<0.03		0.0031 (J)				
9/19/2016		0.0043 (J)		<0.03	0.0054 (J)		
11/2/2016				<0.03			
11/3/2016	<0.03	<0.03	0.0021 (J)		<0.03		
1/11/2017	0.0035 (J)	0.0052 (J)	0.0025 (J)				
1/13/2017				<0.03	0.0062 (J)		
3/1/2017		0.0053 (J)	0.0029 (J)				
3/2/2017	<0.03						
3/6/2017				<0.03	0.0059 (J)		
4/26/2017		0.0041 (J)	0.0019 (J)	<0.03	0.0054 (J)		
5/2/2017	<0.03						
6/28/2017		0.0039 (J)	0.0016 (J)				
6/29/2017	<0.03			<0.03	0.0047 (J)		
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	
3/28/2018	<0.03	0.0041 (J)	0.0024 (J)				
3/29/2018				<0.03	0.0062 (J)		
4/3/2018						0.0022 (J)	<0.03
6/5/2018					0.0061 (J)		
6/6/2018				<0.03			
6/7/2018		0.0032 (J)					
6/11/2018	<0.03		0.0014 (J)				
6/28/2018						0.0026 (J)	<0.03
8/7/2018						0.0024 (J)	<0.03
9/24/2018						0.0022 (J)	<0.03
9/25/2018	<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (J)		
3/5/2019	<0.03		0.0031 (J)	<0.03	0.0053 (J)		
3/6/2019		0.0033 (J)					
4/2/2019	<0.03				0.0051 (J)		
4/3/2019		0.0035 (J)	0.0028 (J)	<0.03			
8/21/2019						0.0035 (J)	<0.03
9/24/2019					0.0068 (J)		
9/25/2019	<0.03			<0.03			
9/26/2019		0.0032 (J)	0.0029 (J)				
10/9/2019						0.0036 (J)	<0.03
2/11/2020	<0.03	0.0033 (J)	0.005 (J)				
2/12/2020				<0.03	0.0065 (J)	0.0041 (J)	<0.03
3/24/2020	0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)		<0.03
3/25/2020						0.0049 (J)	
9/23/2020	<0.03	0.003 (J)	0.0022 (J)				
9/24/2020				<0.03	0.0069 (J)	0.0054 (J)	<0.03
2/9/2021		0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)		
2/10/2021						0.0071 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.03	0.0034 (J)	0.0021 (J)	<0.03			
3/4/2021					0.0062 (J)	0.0084 (J)	<0.03
8/26/2021			0.0019 (J)			0.0082 (J)	
8/27/2021	<0.03	0.0032 (J)		<0.03			
9/1/2021					0.0057 (J)		
9/3/2021							<0.03
2/8/2022						0.008 (J)	0.00076 (J)
2/9/2022	<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)	0.0061 (J)		
8/30/2022	<0.03	0.0036 (J)	0.0014 (J)		0.0079 (J)		
8/31/2022				<0.03		0.0065 (J)	<0.03
2/7/2023	<0.03	0.003 (J)	0.0012 (J)	<0.03	0.0059 (J)	0.0065 (J)	
2/8/2023							0.00074 (J)
8/15/2023	<0.03	<0.03	0.00077 (J)	<0.03	0.0062 (J)	0.0064 (J)	<0.03
2/20/2024	<0.03	0.0038 (J)		<0.03	0.0062 (J)	0.0059 (J)	<0.03
2/23/2024			<0.03				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	0.013	0.0049 (J)	<0.03		
6/9/2016					0.0075
7/26/2016	0.0123 (J)	0.0063 (J)	0.0027 (J)		
8/2/2016					0.0078 (J)
8/31/2016				<0.03	
9/14/2016	0.0137 (J)	0.0058 (J)	0.0029 (J)		
9/21/2016					0.0074 (J)
11/2/2016	0.0136 (J)	0.0053 (J)			
11/4/2016			<0.03		
11/7/2016					0.0057 (J)
11/28/2016				<0.03	
1/12/2017		0.0054 (J)	0.0032 (J)		
1/13/2017	0.0121 (J)				
1/19/2017					0.0055 (J)
2/22/2017				<0.03	0.0063 (J)
3/6/2017	0.0143 (J)				
3/7/2017		0.0056 (J)	0.0035 (J)		
5/1/2017	0.0132 (J)	0.0031 (J)			
5/2/2017			0.0031 (J)		
5/8/2017				0.0014 (J)	0.0066 (J)
6/27/2017		0.0018 (J)	0.0029 (J)		
6/29/2017	0.0145 (J)				
7/5/2017					0.0058 (J)
7/17/2017				<0.03	
10/16/2017				0.0016 (J)	
2/19/2018				<0.03	
3/29/2018	0.014 (J)	0.0058 (J)	0.0034 (J)		0.0049 (J)
6/6/2018		0.0068 (J)			
6/7/2018	0.013 (J)		0.0032 (J)		
6/11/2018					0.0064 (J)
8/6/2018				<0.03	
9/26/2018	0.014 (J)	0.0065 (J)	0.0032 (J)		
10/2/2018					0.006 (J)
2/27/2019					0.0053 (J)
3/4/2019	0.015 (J)	0.0065 (J)	0.0032 (J)		
4/1/2019					0.0052 (J)
4/3/2019	0.014 (J)	0.007 (J)	0.0035 (J)		
8/19/2019				0.0019 (J)	
9/24/2019		0.0065 (J)	0.0031 (J)		
9/25/2019	0.014 (J)				0.0057 (J)
10/8/2019				0.0015 (J)	
2/12/2020	0.011 (J)	0.0066 (J)	0.0032 (J)		
2/13/2020					0.0057 (J)
3/17/2020				0.0017 (J)	
3/20/2020					0.0051 (J)
3/24/2020		0.0064 (J)	0.0033 (J)		
3/25/2020	0.014 (J)				
8/26/2020				0.0032 (J)	
9/22/2020	0.013 (J)	0.0066 (J)	0.0034 (J)	0.0029 (J)	
9/24/2020					0.005 (J)
2/8/2021		0.0063 (J)	0.0032 (J)		
2/9/2021	0.011 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/12/2021					<0.03
3/2/2021		0.0018 (J)	0.0031 (J)	0.0033 (J)	
3/3/2021	0.012 (J)				0.0054 (J)
8/20/2021				0.0028 (J)	0.0056 (J)
8/26/2021	0.0094 (J)	0.0075 (J)	0.0032 (J)		
2/8/2022				0.0031 (J)	0.0064 (J)
2/10/2022		0.0076 (J)	0.0036 (J)		
2/11/2022	0.012 (J)				
8/30/2022		0.0068 (J)	0.0035 (J)	0.0025 (J)	
8/31/2022	0.013 (J)				
9/1/2022					0.0051 (J)
2/7/2023		0.0059 (J)		0.0022 (J)	
2/8/2023					0.012 (J)
2/9/2023	0.014 (J)		0.0036 (J)		
8/2/2023					0.013 (J)
8/15/2023	0.0083 (J)	0.0059 (J)	<0.03	<0.03	
2/20/2024	0.014 (J)	0.0056 (J)	0.0033 (J)	0.0024 (J)	
2/22/2024					0.0051 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0002	<0.0002				<0.0002
6/2/2016	<0.0002				<0.0002	<0.0002	
7/25/2016			<0.0002		<0.0002		<0.0002
7/26/2016	<0.0002	<0.0002				<0.0002	
9/13/2016		<0.0002	<0.0002				
9/14/2016				<0.0002			<0.0002
9/15/2016	<0.0002					<0.0002	
9/19/2016					<0.0002		
11/1/2016		<0.0002			<0.0002	<0.0002	<0.0002
11/2/2016	<0.0002						
11/4/2016			<0.0002	<0.0002			
12/15/2016				<0.0002			
1/10/2017	<0.0002						
1/11/2017		<0.0002				<0.0002	<0.0002
1/16/2017			<0.0002	<0.0002	<0.0002		
2/21/2017					<0.0002		
3/1/2017							<0.0002
3/2/2017		<0.0002	<0.0002			<0.0002	
3/3/2017				<0.0002			
3/8/2017	<0.0002						
4/26/2017	<0.0002				<0.0002	<0.0002	<0.0002
4/27/2017		<0.0002	<0.0002				
4/28/2017				<0.0002			
5/26/2017				<0.0002			
6/27/2017		<0.0002	<0.0002				
6/28/2017				<0.0002		<0.0002	<0.0002
6/30/2017	<0.0002				<0.0002		
3/27/2018	<0.0002		<0.0002		<0.0002		
3/28/2018				<0.0002		<0.0002	<0.0002
3/29/2018		<0.0002					
2/26/2019	6.1E-05 (J)				6.8E-05 (J)		
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0002				
3/29/2019	<0.0002			<0.0002			
4/1/2019					8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)
9/24/2019		<0.0002	<0.0002	<0.0002			
9/25/2019	<0.0002				<0.0002	<0.0002	<0.0002
2/10/2020		<0.0002	<0.0002				
2/11/2020				<0.0002			<0.0002
2/12/2020	<0.0002				<0.0002	<0.0002	
2/10/2021	<0.0002			<0.0002		<0.0002	<0.0002
2/11/2021					<0.0002		
2/12/2021		<0.0002	<0.0002				
2/9/2022		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/10/2022	<0.0002						
2/11/2022					<0.0002		
8/30/2022		<0.0002		<0.0002			
8/31/2022	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002
2/7/2023		<0.0002	<0.0002	<0.0002			
2/8/2023	<0.0002				<0.0002	<0.0002	<0.0002
8/15/2023	0.00016 (J)	0.00015 (J)	0.00015 (J)	0.00015 (J)		0.00014 (J)	
8/16/2023					<0.0002		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/20/2024		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/23/2024	<0.0002						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	
8/30/2016							<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
11/8/2016					<0.0002		
11/14/2016							<0.0002
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		
2/23/2017			<0.0002				
2/24/2017							<0.0002
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
7/11/2017							<0.0002
10/10/2017							<0.0002
3/29/2018			<0.0002	<0.0002			
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
4/2/2018							<0.0002
9/19/2018							5.3E-05 (J)
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
8/20/2019							<0.0002
9/25/2019	<0.0002	<0.0002					
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/27/2020							<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	
8/19/2021							<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					<0.0002
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	
2/8/2023							<0.0002
2/9/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/15/2023							0.00014 (J)
8/16/2023					<0.0002	<0.0002	
8/17/2023	<0.0002	<0.0002	<0.0002	<0.0002			
2/20/2024							<0.0002
2/21/2024			<0.0002	<0.0002	<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/22/2024	<0.0002	<0.0002					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.0002	<0.0002				
6/7/2016	9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)		
7/27/2016	<0.0002	<0.0002	<0.0002	<0.0002			
7/28/2016					<0.0002		
9/16/2016	<0.0002		<0.0002				
9/19/2016		<0.0002		<0.0002	<0.0002		
11/2/2016				<0.0002			
11/3/2016	<0.0002	<0.0002	<0.0002		<0.0002		
1/11/2017	<0.0002	<0.0002	<0.0002				
1/13/2017				<0.0002	<0.0002		
3/1/2017		<0.0002	<0.0002				
3/2/2017	<0.0002						
3/6/2017				<0.0002	<0.0002		
4/26/2017		<0.0002	<0.0002	<0.0002	<0.0002		
5/2/2017	<0.0002						
6/28/2017		<0.0002	<0.0002				
6/29/2017	<0.0002			<0.0002	<0.0002		
10/11/2017						<0.0002	
10/12/2017							<0.0002
11/20/2017						7E-05 (J)	8E-05 (J)
1/10/2018							<0.0002
1/11/2018						<0.0002	
2/19/2018							<0.0002
2/20/2018						<0.0002	
3/28/2018	<0.0002	<0.0002	<0.0002				
3/29/2018				<0.0002	<0.0002		
4/3/2018						<0.0002	<0.0002
6/28/2018						<0.0002	3.6E-05 (J)
8/7/2018						<0.0002	<0.0002
9/24/2018						<0.0002	<0.0002
9/25/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
3/5/2019	<0.0002		<0.0002	<0.0002	<0.0002		
3/6/2019		<0.0002					
8/21/2019						<0.0002	<0.0002
2/11/2020	<0.0002	<0.0002	<0.0002				
2/12/2020				<0.0002	<0.0002	<0.0002	<0.0002
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002		
2/10/2021						<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002	<0.0002	<0.0002			
3/4/2021					<0.0002	<0.0002	<0.0002
8/26/2021			<0.0002			<0.0002	
8/27/2021	<0.0002	<0.0002		<0.0002			
9/1/2021					<0.0002		
9/3/2021							0.00012 (J)
2/8/2022						<0.0002	0.00013 (J)
2/9/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
8/30/2022	<0.0002	<0.0002	<0.0002		<0.0002		
8/31/2022				<0.0002		<0.0002	0.00064
2/7/2023	0.00018 (J)	0.00013 (J)	0.00017 (J)	0.00015 (J)	0.00017 (J)	<0.0002	
2/8/2023							<0.0002
8/15/2023	<0.0002	0.00014 (J)	0.00015 (J)	<0.0002	<0.0002	<0.0002	0.00037
2/20/2024	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	0.00032

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/23/2024			<0.0002				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.0002	
9/11/2007				<0.0002	
3/20/2008				<0.0002	
8/27/2008				<0.0002	
3/3/2009				<0.0002	
11/18/2009				<0.0002	
3/3/2010				<0.0002	
9/8/2010				<0.0002	
3/10/2011				<0.0002	
9/8/2011				<0.0002	
3/5/2012				<0.0002	
9/10/2012				<0.0002	
2/6/2013				<0.0002	
8/12/2013				<0.0002	
2/5/2014				<0.0002	
8/5/2014				<0.0002	
2/4/2015				<0.0002	
8/3/2015				<0.0002	
2/16/2016				1.36E-05 (J)	
6/2/2016	<0.0002	<0.0002	<0.0002		
6/9/2016					<0.0002 (*)
7/26/2016	<0.0002	<0.0002	<0.0002		
8/2/2016					<0.0002
8/31/2016				<0.0002	
9/14/2016	<0.0002	<0.0002	<0.0002		
9/21/2016					<0.0002
11/2/2016	<0.0002	<0.0002			
11/4/2016			<0.0002		
11/7/2016					<0.0002
11/28/2016				<0.0002	
1/12/2017		<0.0002	<0.0002		
1/13/2017	<0.0002				
1/19/2017					<0.0002
2/22/2017				<0.0002	<0.0002
3/6/2017	<0.0002				
3/7/2017		<0.0002	<0.0002		
5/1/2017	<0.0002	<0.0002			
5/2/2017			<0.0002		
5/8/2017				<0.0002	<0.0002
6/27/2017		<0.0002	<0.0002		
6/29/2017	<0.0002				
7/5/2017					<0.0002
7/17/2017				<0.0002	
10/16/2017				<0.0002	
2/19/2018				<0.0002	
3/29/2018	<0.0002	<0.0002	<0.0002		<0.0002
8/6/2018				<0.0002	
9/26/2018	<0.0002	<0.0002	<0.0002		
2/25/2019				7.4E-05 (J)	
2/27/2019					4.7E-05 (J)
3/4/2019	<0.0002	<0.0002	<0.0002		
4/1/2019					3.9E-05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/12/2019				<0.0002	
8/19/2019				<0.0002	
9/25/2019					<0.0002
10/8/2019				<0.0002	
2/12/2020	<0.0002	<0.0002	<0.0002		
2/13/2020					<0.0002
5/6/2020				<0.0002	
8/26/2020				<0.0002	
9/22/2020				<0.0002	
2/8/2021		<0.0002	<0.0002		
2/9/2021	<0.0002				
2/12/2021					<0.0002
3/2/2021		<0.0002	<0.0002	<0.0002	
3/3/2021	<0.0002				
8/20/2021				<0.0002	
8/26/2021	<0.0002	<0.0002	<0.0002		
2/8/2022				<0.0002	<0.0002
2/10/2022		<0.0002	<0.0002		
2/11/2022	<0.0002				
8/30/2022		<0.0002	<0.0002	<0.0002	
8/31/2022	<0.0002				
9/1/2022					<0.0002
2/7/2023		<0.0002		0.00013 (J)	
2/8/2023					<0.0002
2/9/2023	<0.0002		<0.0002		
8/2/2023					<0.0002
8/15/2023	0.00013 (J)	0.00015 (J)	0.00014 (J)	<0.0002	
2/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	
2/22/2024					<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.014 (J)	0.012 (J)				0.0055 (J)
6/2/2016	<0.01				<0.01	0.0093 (J)	
7/25/2016			0.0098 (J)		<0.01		0.0037 (J)
7/26/2016	<0.01	0.0132				0.0113	
9/13/2016		0.0127	0.01 (J)				
9/14/2016				0.0039 (J)			0.0034 (J)
9/15/2016	<0.01					0.0112	
9/19/2016					<0.01		
11/1/2016		0.0092 (J)			<0.01	0.0099 (J)	0.0025 (J)
11/2/2016	<0.01						
11/4/2016			0.01	0.0077 (J)			
12/15/2016				0.0066 (J)			
1/10/2017	<0.01						
1/11/2017		0.0093 (J)				0.0093 (J)	0.0033 (J)
1/16/2017			0.0086 (J)	0.0056 (J)	<0.01		
2/21/2017					<0.01		
3/1/2017							0.0044 (J)
3/2/2017		0.0099 (J)	0.01			0.0103	
3/3/2017				0.0049 (J)			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	0.01	0.0075 (J)
4/27/2017		0.0103	0.0101				
4/28/2017				0.004 (J)			
5/26/2017				0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)				
6/28/2017				0.0036 (J)		0.0102	0.008 (J)
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		0.0074 (J)		<0.01		
3/28/2018				0.0038 (J)		0.011	0.0025 (J)
3/29/2018		0.0076 (J)					
6/5/2018		0.0092 (J)					
6/6/2018			0.0073 (J)				
6/7/2018				0.004 (J)		0.011	
6/8/2018	<0.01						0.0041 (J)
6/11/2018					<0.01		
10/1/2018	<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012	0.0037 (J)
10/2/2018					<0.01		
2/26/2019	<0.01				<0.01		
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)				
3/29/2019	<0.01			0.0041 (J)			
4/1/2019					<0.01	0.012	0.0021 (J)
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)			
9/25/2019	<0.01				<0.01	0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)				
2/11/2020				0.0057 (J)			0.003 (J)
2/12/2020	<0.01				<0.01	0.013	
3/18/2020	<0.01		0.0056 (J)				
3/19/2020		0.0088 (J)		0.0046 (J)	<0.01	0.013	0.0043 (J)
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)		0.012	0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.01			0.0041 (J)		0.014	0.0038 (J)
2/11/2021					<0.01		
2/12/2021		0.008 (J)	0.0056 (J)				
3/1/2021					<0.01		
3/2/2021	<0.01						
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013	0.0036 (J)
8/19/2021	<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013	
8/27/2021				0.0048 (J)			0.0099 (J)
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013	0.0087 (J)
2/10/2022	<0.01						
2/11/2022					<0.01		
8/30/2022		0.0094 (J)		0.0068 (J)			
8/31/2022	<0.01		0.0055 (J)		<0.01	0.011	0.0068 (J)
2/7/2023		<0.01	<0.01	0.0061 (J)			
2/8/2023	<0.01				<0.01	0.012	0.0065 (J)
8/15/2023	<0.01	0.0098 (J)	0.0047 (J)	0.0071 (J)		0.012	
8/16/2023					<0.01		0.012
2/20/2024		0.0098 (J)	0.03	0.0076 (J)	<0.01	0.013	0.0089 (J)
2/23/2024	<0.01						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	
8/30/2016							<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	
11/8/2016					<0.01		
11/14/2016							<0.01
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		
2/23/2017			<0.01				
2/24/2017							<0.01
5/3/2017		<0.01					
5/5/2017					0.0014 (J)	0.0007 (J)	
5/8/2017	<0.01		0.0011 (J)	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					0.0014 (J)		
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
7/11/2017							<0.01
10/10/2017							<0.01
3/29/2018			<0.01	<0.01			
3/30/2018	<0.01	<0.01			<0.01	<0.01	
4/2/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
9/19/2018							<0.01
10/2/2018	<0.01	<0.01	<0.01	<0.01			
10/3/2018					<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
4/1/2019			<0.01	<0.01	<0.01		
4/2/2019	<0.01	<0.01				<0.01	
8/20/2019							<0.01
9/25/2019	<0.01	<0.01					
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
10/8/2019							<0.01
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	
3/17/2020							<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			
8/27/2020							<0.01
9/22/2020							<0.01
9/24/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	
2/10/2021	<0.01	<0.01	0.0016 (J)	<0.01			
2/11/2021					0.0012 (J)		
2/12/2021						<0.01	
3/1/2021							<0.01
3/2/2021		<0.01					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	<0.01		0.0017 (J)	<0.01	0.0011 (J)	0.00083 (J)	
8/19/2021		<0.01					<0.01
8/20/2021	<0.01		0.0042 (J)	<0.01	0.001 (J)	<0.01	
2/8/2022				<0.01	0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	<0.01	<0.01	0.0018 (J)				
8/31/2022	<0.01	<0.01					<0.01
9/1/2022			0.0016 (J)	<0.01	0.001 (J)	<0.01	
2/8/2023							<0.01
2/9/2023	<0.01	<0.01	0.0019 (J)	<0.01	0.0014 (J)	0.00083 (J)	
8/15/2023							<0.01
8/16/2023					0.0016 (J)	0.00077 (J)	
8/17/2023	<0.01	<0.01	0.0016 (J)	<0.01			
2/20/2024							<0.01
2/21/2024			0.0015 (J)	<0.01	0.0013 (J)	0.00068 (J)	
2/22/2024	<0.01	<0.01					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.01	<0.01				
6/7/2016	<0.01			<0.01	<0.01		
7/27/2016	<0.01	<0.01	<0.01	<0.01			
7/28/2016					<0.01		
9/16/2016	<0.01		<0.01				
9/19/2016		<0.01		<0.01	<0.01		
11/2/2016				<0.01			
11/3/2016	<0.01	<0.01	<0.01		<0.01		
1/11/2017	<0.01	<0.01	<0.01				
1/13/2017				<0.01	<0.01		
3/1/2017		<0.01	<0.01				
3/2/2017	<0.01						
3/6/2017				<0.01	0.0007 (J)		
4/26/2017		<0.01	<0.01	<0.01	0.0008 (J)		
5/2/2017	<0.01						
6/28/2017		<0.01	<0.01				
6/29/2017	<0.01			<0.01	<0.01		
10/11/2017						0.0094 (J)	
10/12/2017							<0.01
11/20/2017						0.0081 (J)	<0.01
1/10/2018							<0.01
1/11/2018						0.0074 (J)	
2/19/2018							<0.01
2/20/2018						<0.01	
3/28/2018	<0.01	<0.01	<0.01				
3/29/2018				<0.01	<0.01		
4/3/2018						0.006 (J)	<0.01
6/28/2018						0.005 (J)	<0.01
8/7/2018						0.0045 (J)	<0.01
9/24/2018						0.0035 (J)	<0.01
3/5/2019	<0.01		<0.01	<0.01	<0.01		
3/6/2019		<0.01					
8/21/2019						0.0021 (J)	<0.01
10/9/2019						0.0018 (J)	<0.01
2/11/2020	<0.01	<0.01	<0.01				
2/12/2020				<0.01	<0.01	0.0025 (J)	<0.01
3/24/2020	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01
3/25/2020						0.002 (J)	
9/23/2020	<0.01	<0.01	<0.01				
9/24/2020				<0.01	<0.01	0.0016 (J)	<0.01
2/9/2021		<0.01	<0.01	<0.01	<0.01		
2/10/2021						0.0013 (J)	<0.01
3/3/2021	<0.01	<0.01	<0.01	<0.01			
3/4/2021					<0.01	0.0014 (J)	<0.01
8/26/2021			<0.01			0.0027 (J)	
8/27/2021	<0.01	<0.01		<0.01			
9/1/2021					<0.01		
9/3/2021							<0.01
2/8/2022						0.0035 (J)	<0.01
2/9/2022	<0.01	<0.01	<0.01	<0.01	<0.01		
8/30/2022	<0.01	<0.01	<0.01		<0.01		
8/31/2022				<0.01		0.0036 (J)	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/7/2023	<0.01	<0.01	<0.01	<0.01	<0.01	0.0045 (J)	
2/8/2023							<0.01
8/15/2023	<0.01	<0.01	<0.01	<0.01	<0.01	0.0061 (J)	<0.01
2/20/2024	<0.01	<0.01		<0.01	<0.01	0.0058 (J)	<0.01
2/23/2024			<0.01				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	<0.01	0.0035 (J)	<0.01		
6/9/2016					<0.01
7/26/2016	<0.01	0.0042 (J)	<0.01		
8/2/2016					<0.01
8/31/2016				<0.01	
9/14/2016	<0.01	0.0041 (J)	<0.01		
9/21/2016					<0.01
11/2/2016	<0.01	0.0039 (J)			
11/4/2016			<0.01		
11/7/2016					<0.01
11/28/2016				<0.01	
1/12/2017		0.0041 (J)	<0.01		
1/13/2017	<0.01				
1/19/2017					<0.01
2/22/2017				<0.01	<0.01
3/6/2017	<0.01				
3/7/2017		0.0047 (J)	<0.01		
5/1/2017	<0.01	0.0045 (J)			
5/2/2017			<0.01		
5/8/2017				<0.01	<0.01
6/27/2017		0.004 (J)	<0.01		
6/29/2017	<0.01				
7/5/2017					<0.01
7/17/2017				<0.01	
10/16/2017				<0.01	
2/19/2018				<0.01	
3/29/2018	<0.01	<0.01	<0.01		<0.01
6/11/2018					<0.01
8/6/2018				<0.01	
10/2/2018					<0.01
2/27/2019					<0.01
3/4/2019	<0.01	<0.01	<0.01		
4/1/2019					<0.01
8/19/2019				<0.01	
9/25/2019					<0.01
2/12/2020	<0.01	0.0011 (J)	<0.01		
2/13/2020					<0.01
3/20/2020					<0.01
3/24/2020		0.0011 (J)	<0.01		
3/25/2020	<0.01				
8/26/2020				<0.01	
9/22/2020	<0.01	0.00099 (J)	<0.01		
9/24/2020					<0.01
2/8/2021		0.0011 (J)	<0.01		
2/9/2021	<0.01				
2/12/2021					0.00083 (J)
3/2/2021		<0.01	<0.01		
3/3/2021	<0.01				<0.01
8/20/2021				<0.01	<0.01
8/26/2021	<0.01	0.001 (J)	<0.01		
2/8/2022				<0.01	<0.01
2/10/2022		0.00096 (J)	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/11/2022	<0.01				
8/30/2022		0.00089 (J)	<0.01	<0.01	
8/31/2022	<0.01				
9/1/2022					<0.01
2/7/2023		0.00095 (J)		<0.01	
2/8/2023					0.00099 (J)
2/9/2023	<0.01		<0.01		
8/2/2023					<0.01
8/15/2023	<0.01	0.0009 (J)	<0.01	<0.01	
2/20/2024	<0.01	0.001 (J)	<0.01	<0.01	
2/22/2024					<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		7.46	6.33				7.72
6/2/2016	5.46				5.75	7.84	
7/25/2016			6.21		5.82		7.74
7/26/2016	5.45	7.43				7.88	
9/13/2016		7.44	6.16	7.41			
9/14/2016							7.65
9/15/2016	5.45					7.74	
9/19/2016					5.78 (D)		
11/1/2016		7.24			5.62	7.75	7.7
11/2/2016	5.41						
11/4/2016			6.29	7.12			
12/15/2016				7.24			
1/10/2017	5.37						
1/11/2017		7.3				7.66	7.53
1/16/2017			6.29	7.24	5.72		
2/21/2017					5.67		
3/1/2017							7.42
3/2/2017		7.23	6.28			7.68	
3/3/2017				7.22			
3/8/2017	5.41						
4/26/2017	5.02				5.56	7.45	7.4
4/27/2017		6.99	6.09				
4/28/2017				7.21			
5/26/2017				7.13			
6/27/2017		6.87	6.21				
6/28/2017				7.06		7.65	7.5
6/30/2017	5.39				5.72		
10/3/2017		6.81	5.98	6.99			
10/4/2017					5.87	7.49	7.45
10/5/2017	5.49						
3/27/2018	5.47		6.25		5.83		
3/28/2018				7.3		7.91	7.74
3/29/2018		7.38					
6/5/2018		7.16					
6/6/2018			6.17				
6/7/2018				7.29		7.69	
6/8/2018	5.45						7.64
6/11/2018					5.69		
10/1/2018	5.39	6.8	5.9	7.07		7.39	7.47
10/2/2018					5.39		
2/26/2019	5.46				5.77		
2/27/2019		6.84	5.8	7.27		7.55	7.54
3/28/2019		6.99	6.15				
3/29/2019	5.34			7.06			
4/1/2019					5.62	7.87	7.74
9/24/2019		7.07	6.23	7.01			
9/25/2019	5.19				5.69	7.64	7.47
2/10/2020		7.2	6.1				
2/11/2020				7.38			7.09
2/12/2020	5.48				5.8	7.83	
3/18/2020	5.38		6.19				
3/19/2020		7.03		7.22	6	7.65	7.31

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		7.15	6.01	7.22		7.57	7.37
9/24/2020					5.67		
9/25/2020	5.44						
2/10/2021	5.35			7.29		7.81	7.58
2/11/2021					5.73		
2/12/2021		7.14	6.21				
3/1/2021					5.78		
3/2/2021	5.49						
3/3/2021		7.2	5.38	7.92		8.39	8.23
8/19/2021	7.32	6.32	6.38			5.34	
8/27/2021				7.14			7.39
2/9/2022		7.12	6.24	5.89		7.97	7.66
2/10/2022	4.5						
2/11/2022					5.59		
8/30/2022		7.2		7.04			
8/31/2022	5.15		5.64		5.87	7.65	7.49
2/7/2023		7.86	6.53	6.94			
2/8/2023	5.39				6.43	7.88	7.73
8/15/2023	5.03	6.98	5.88	6.96		7.69	
8/16/2023					5.55		7.39
2/20/2024		7.06	6.42	7.23	5.81	7.81	7.59
2/23/2024	5.39						

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	
8/30/2016							5.75
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	
11/7/2016	5.91	5.35	6.3	6.25		6.36	
11/8/2016					6.37		
11/14/2016							5.59
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		
2/23/2017			6.18				
2/24/2017							5.49
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			5.58
6/30/2017			6.21	6.17			
7/5/2017					6.4		
7/7/2017						6.46	
7/10/2017	5.92	5.25					
7/11/2017							5.58
10/5/2017					6.43		
10/6/2017				6.13			
10/9/2017			6.26			6.37	
10/10/2017	5.84	5.17					5.49
3/29/2018			6.36	6.25			
3/30/2018	6.19	5.19			6.39	6.35	
4/2/2018							6.3 (o)
6/12/2018				6.22	6.42	6.47	
6/13/2018	5.82	5.12	6.28				
9/19/2018							5.48
10/2/2018	5.81	4.95	5.9	5.99			
10/3/2018					6.21	6.01	
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	
3/27/2019							5.83
4/1/2019			6.43	6.4	6.3		
4/2/2019	5.87	5.13				6.7	
8/20/2019							5.58
9/25/2019	5.79	5.24					
9/26/2019			6.3	6.22	6.43	6.47	
10/8/2019							5.59
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	
3/17/2020							5.57
3/19/2020		5.46			7.01	6.98	
3/20/2020	5.94		6.32	6.18			
8/27/2020							4.88
9/22/2020							5.46
9/24/2020	5.86	5.46	6.36	6.27	6.41	6.53	
2/10/2021	5.96	5.18	6.29	6.21			

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/11/2021					6.57		
2/12/2021						6.6	
3/1/2021							5.48
3/2/2021		5.38					
3/3/2021	5.93		6.43	6.35	6.51	6.61	
8/19/2021		5.12					5.5
8/20/2021	5.78		6.17	6.18	6.23	6.38	
2/8/2022				6.22	6.34	6.3	5.4
2/10/2022	5.84	5.31	6.23				
8/31/2022	5.77	5.61					5.32
9/1/2022			6.13	6.13	6.41	6.59	
2/8/2023							5.22
2/9/2023	5.76	5.64	6.48	6.64	6.7	6.87	
8/15/2023							5.69
8/16/2023					6.3	6.36	
8/17/2023	5.77	5.38	6.2	6.06			
2/20/2024							5.62
2/21/2024			6.43	6.26	6.43	6.49	
2/22/2024	5.92	5.58					

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		6.17	5.71				
6/7/2016	5.62			5.77	6.1		
7/27/2016	5.59	6.14	5.46	5.79			
7/28/2016					6.12		
9/16/2016	5.58						
9/19/2016		6.04	5.59	5.73	6.12		
11/2/2016				5.67			
11/3/2016	5.59	5.97	5.39		6.07		
1/11/2017	5.59	6.05	5.48				
1/13/2017				5.79	6.41		
3/1/2017		5.94	5.41				
3/2/2017	5.54						
3/6/2017				5.63	6.34		
4/26/2017		5.99	5.4	5.66	6.32		
5/2/2017	5.47						
6/28/2017		6	5.36				
6/29/2017	5.56			5.85	6.47		
10/3/2017					6.56		
10/4/2017	5.57		5.32	5.83			
10/5/2017		6.11					
10/11/2017						6.4	
10/12/2017							5.43
11/20/2017						6.33	5.1
1/10/2018							4.97
1/11/2018						6.29	
2/19/2018							5.6
2/20/2018						7.22	
3/28/2018	5.59	6.1	5.34				
3/29/2018				5.93	6.75		
4/3/2018						6.87	5.84
6/5/2018					6.09		
6/6/2018				5.86			
6/7/2018		5.98					
6/11/2018	5.58		5.28				
6/28/2018						6.18	5.24
8/7/2018						6.08	5.18
9/24/2018						5.81	5.14
9/25/2018	5.59	5.81	4.86	5.84	6.67		
3/5/2019	5.48		5.26	6.07	7.22		
3/6/2019		5.99					
3/26/2019							5.3
3/27/2019						5.84	
4/2/2019	5.74				6.94		
4/3/2019		6.29	5.47	5.71			
8/21/2019						5.96	5.26
9/24/2019					6.87		
9/25/2019	5.49			5.86			
9/26/2019		6.04	5.2				
10/9/2019						5.81	5.22
2/11/2020	5.58	6.07	5.3				
2/12/2020				6	7.13	5.97	5.3
3/24/2020	5.57	5.98	5.33	5.86	6.35		5.29

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/25/2020						5.78	
9/23/2020	5.58	6.01	5.29				
9/24/2020				5.8	6.7	5.7	5.43
2/9/2021		6.12	5.43	5.86	6.95		
2/10/2021						5.8	5.19
3/3/2021	5.52	5.89	5.31	5.89			
3/4/2021					6.8	5.54	5.23
8/26/2021			4.4			6.91	
8/27/2021	5.27	5.4		5.57			
9/1/2021					6.65		
9/3/2021							4.75
2/8/2022						5.78	5.26
2/9/2022	5.53	5.98	5.28	5.91	6.84		
8/30/2022	4.68	5.82	5.18		6.58		
8/31/2022				5.38		5.3	4.53
2/7/2023	5.47	6	5.03	5.63	6.82	5.49	
2/8/2023							5.71
8/15/2023	5.54	5.82	5.2	7	6.84	5.78	5
2/20/2024	5.64	6.11		5.99	6.78	5.97	5.32
2/23/2024			5.3				

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
8/27/2008				6.53	
3/3/2009				6.35	
11/18/2009				6.47	
3/3/2010				6.53	
3/10/2011				5.83	
9/8/2011				5.69	
3/5/2012				6.27	
9/10/2012				6.23	
2/6/2013				7.56	
8/12/2013				6.68	
2/5/2014				6.32	
8/3/2015				6.13 (D)	
2/16/2016				5.64	
6/2/2016	6.36	7.67	5.75		
6/9/2016					6.19
7/26/2016	6.22	7.66	5.72		
8/2/2016					6.17
9/14/2016	6.23	7.6	5.74		
9/21/2016					6.2
11/2/2016	6.08	7.35			
11/4/2016			5.61		
11/7/2016					6.1
11/28/2016				6.23	
1/12/2017		7.49	5.71		
1/13/2017	6.19				
1/19/2017					6.22
2/22/2017				6.21	6.12
3/6/2017	6.2				
3/7/2017		7.43	5.66		
5/1/2017	6.21	7.22			
5/2/2017			5.65		
5/8/2017				6.12	6.11
6/27/2017		7.32	5.7		
6/29/2017	6.21				
7/5/2017					6.17
7/17/2017				6.03	
10/3/2017		7.48	5.79		
10/5/2017	6.16				6.17
10/16/2017				6.12	
2/19/2018				6.13	
3/29/2018	6.09	7.02	5.63		6.09
6/6/2018		7.43			
6/7/2018	6.12		5.63		
6/11/2018					6.17
8/6/2018				6.01	
9/26/2018	5.84	7.13	5.63		
10/2/2018					6.17
2/25/2019				6.51	
2/27/2019					6.19
3/4/2019	6.18	7.46	5.75		
4/1/2019					6.03
4/3/2019	6.43	7.11	5.63		

Time Series

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/12/2019				6.3	
8/19/2019				6.23	
9/24/2019		6.93	5.6		
9/25/2019	6.2				6.21
10/8/2019				6.28	
2/12/2020	6.15	7.52	5.83		
2/13/2020					6.32
3/17/2020				6.14	
3/20/2020					6.17
3/24/2020		7.34	5.81		
3/25/2020	6.26				
5/6/2020				6.24	
8/26/2020				5.67	
9/22/2020	5.8	7.19	5.99	5.78	
9/24/2020					6.2
2/8/2021			5.67		
2/9/2021	6.06				
2/12/2021					6.24
3/2/2021		7.15	5.63	5.42	
3/3/2021	6.21				6.27
8/20/2021				5.86	6.07
8/26/2021	5.82	7.16	5.51		
2/8/2022				5.83	5.88
2/10/2022		6.99	5.14		
2/11/2022	5.95				
8/30/2022		7.4	5	5.39	
8/31/2022	5.5				
9/1/2022					6.05
2/7/2023		6.64		5.94	
2/8/2023					6.67
2/9/2023	6.23		5.9		
8/2/2023					6.04
8/15/2023	5.99	7.34	5.58	5.3	
2/20/2024	6.21	7.56	5.78	6.07	
2/22/2024					6.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	<0.005				<0.005
6/2/2016	0.0011 (J)				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	0.0016 (J)	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	0.0014 (J)					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	0.0012 (J)						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							<0.005
3/2/2017		<0.005	<0.005			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	<0.005				
3/29/2019	0.0019 (J)			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		<0.005	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		<0.005	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		<0.005				
3/19/2020		<0.005		<0.005	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	0.0014 (J)						
2/11/2022					<0.005		
8/30/2022		<0.005		<0.005			
8/31/2022	<0.005		<0.005		<0.005	<0.005	<0.005
2/7/2023		<0.005	<0.005	<0.005			
2/8/2023	<0.005				<0.005	<0.005	<0.005
8/15/2023	0.0014 (J)	<0.005	<0.005	<0.005		<0.005	
8/16/2023					<0.005		<0.005
2/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024	0.001 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.0016	0.0003 (J)	<0.005	<0.005			
6/9/2016					<0.005	<0.005	
8/1/2016	0.0023 (J)	0.0014 (J)	<0.005	<0.005			
8/2/2016					<0.005	<0.005	
8/30/2016							0.0017 (J)
9/20/2016	0.0022 (J)	<0.005	<0.005	<0.005			
9/21/2016					<0.005	0.001 (J)	
11/7/2016	0.0017 (J)	<0.005	<0.005	<0.005		<0.005	
11/8/2016					<0.005		
11/14/2016							<0.005
1/18/2017	0.002 (J)	0.0012 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			
2/21/2017	0.0018 (J)	0.0014 (J)				<0.005	
2/22/2017				<0.005	0.0012 (J)		
2/23/2017			<0.005				
2/24/2017							0.0011 (J)
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.01		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		
7/7/2017						<0.005	
7/10/2017	0.002 (J)	<0.005					
7/11/2017							<0.005
10/10/2017							<0.005
3/29/2018			<0.005	<0.005			
3/30/2018	<0.01	<0.005			<0.005	<0.005	
4/2/2018							<0.005
9/19/2018							<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
4/1/2019			<0.005	<0.005	<0.005		
4/2/2019	0.0017 (J)	<0.005				<0.005	
8/20/2019							<0.005
9/25/2019	0.0019 (J)	<0.005					
9/26/2019			<0.005	<0.005	<0.005	<0.005	
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
3/19/2020		<0.005			<0.005	<0.005	
3/20/2020	0.0019 (J)		<0.005	<0.005			
8/27/2020							<0.005
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
2/10/2021	0.0026 (J)	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/2/2021		<0.005					
3/3/2021	0.0034 (J)		<0.005	<0.005	<0.005	<0.005	
8/19/2021		<0.005					<0.005
8/20/2021	0.0026 (J)		<0.005	<0.005	<0.005	<0.005	
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005	<0.005				
8/31/2022	0.0036 (J)	<0.005					<0.005
9/1/2022			<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/9/2023	0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
8/15/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	0.0046 (J)	<0.005	<0.005	<0.005			
2/20/2024							<0.005
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	0.0041 (J)	<0.005					

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.005	<0.005				
6/7/2016	0.001 (J)			<0.005	0.00048 (J)		
7/27/2016	0.0012 (J)	<0.005	<0.005	<0.005			
7/28/2016					<0.005		
9/16/2016	0.0015 (J)		<0.005				
9/19/2016		<0.005		<0.005	0.0014 (J)		
11/2/2016				<0.005			
11/3/2016	0.0015 (J)	<0.005	<0.005		<0.005		
1/11/2017	0.0014 (J)	<0.005	<0.005				
1/13/2017				<0.005	<0.005		
3/1/2017		<0.005	<0.005				
3/2/2017	0.0017 (J)						
3/6/2017				<0.005	<0.005		
4/26/2017		<0.005	<0.005	<0.005	<0.005		
5/2/2017	<0.005						
6/28/2017		<0.005	<0.005				
6/29/2017	<0.005			<0.005	<0.005		
10/11/2017						<0.005	
10/12/2017							<0.005
11/20/2017						<0.005	0.0042 (J)
1/10/2018							0.0043 (J)
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	<0.005				
3/29/2018				<0.005	<0.005		
4/3/2018						<0.005	<0.005
6/5/2018					<0.005		
6/6/2018				<0.005			
6/7/2018		<0.005					
6/11/2018	<0.005		<0.005				
6/28/2018						<0.005	0.0032 (J)
8/7/2018						<0.005	0.0031 (J)
9/24/2018						0.0015 (J)	0.0026 (J)
9/25/2018	<0.005	<0.005	<0.005	<0.005	<0.005		
3/5/2019	<0.005		<0.005	<0.005	<0.005		
3/6/2019		<0.005					
4/2/2019	<0.005				<0.005		
4/3/2019		<0.005	<0.005	<0.005			
8/21/2019						<0.005	0.0024 (J)
9/24/2019					<0.005		
9/25/2019	<0.005			<0.005			
9/26/2019		<0.005	<0.005				
10/9/2019						<0.005	0.0026 (J)
2/11/2020	<0.005	<0.005	<0.005				
2/12/2020				<0.005	<0.005	<0.005	0.002 (J)
3/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005		0.002 (J)
3/25/2020						<0.005	
9/23/2020	<0.005	<0.005	<0.005				
9/24/2020				<0.005	<0.005	<0.005	0.0016 (J)
2/9/2021		<0.005	<0.005	<0.005	<0.005		
2/10/2021						<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.005	<0.005	<0.005	<0.005			
3/4/2021					<0.005	<0.005	<0.005
8/26/2021			<0.005			<0.005	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					<0.005		
9/3/2021							<0.005
2/8/2022						<0.005	0.0014 (J)
2/9/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/30/2022	<0.005	<0.005	<0.005		<0.005		
8/31/2022				<0.005		<0.005	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/23/2024			<0.005				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.005	
9/11/2007				<0.005	
3/20/2008				<0.005	
8/27/2008				<0.005	
3/3/2009				<0.005	
11/18/2009				<0.005	
3/3/2010				<0.005	
9/8/2010				<0.005	
3/10/2011				<0.005	
9/8/2011				<0.005	
3/5/2012				<0.005	
9/10/2012				<0.005	
2/6/2013				<0.005	
8/12/2013				<0.005	
2/5/2014				<0.005	
8/5/2014				<0.005	
2/4/2015				<0.005	
8/3/2015				<0.005	
2/16/2016				<0.005	
6/2/2016	<0.005	<0.005	<0.005		
6/9/2016					<0.005
7/26/2016	0.0009 (J)	<0.005	0.0009 (J)		
8/2/2016					<0.005
8/31/2016				<0.005	
9/14/2016	<0.005	<0.005	<0.005		
9/21/2016					<0.005
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				<0.005	
1/12/2017		<0.005	<0.005		
1/13/2017	<0.005				
1/19/2017					<0.005
2/22/2017				<0.005	<0.005
3/6/2017	<0.005				
3/7/2017		<0.005	<0.005		
5/1/2017	<0.005	<0.005			
5/2/2017			<0.005		
5/8/2017				<0.005	<0.005
6/27/2017		<0.005	<0.005		
6/29/2017	<0.005				
7/5/2017					<0.005
7/17/2017				<0.005	
10/16/2017				<0.005	
2/19/2018				<0.005	
3/29/2018	<0.005	<0.005	<0.005		<0.005
6/6/2018		<0.005			
6/7/2018	<0.005		<0.005		
8/6/2018				<0.005	
9/26/2018	<0.005	<0.005	<0.005		
2/25/2019				<0.005	
2/27/2019					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
4/3/2019	<0.005	<0.005	<0.005		
6/12/2019				<0.005	
8/19/2019				<0.005	
9/24/2019		<0.005	<0.005		
9/25/2019	<0.005				<0.005
10/8/2019				<0.005	
2/12/2020	<0.005	<0.005	<0.005		
2/13/2020					<0.005
3/17/2020				<0.005	
3/20/2020					<0.005
3/24/2020		<0.005	<0.005		
3/25/2020	<0.005				
8/26/2020				<0.005	
9/22/2020	<0.005	<0.005	<0.005	<0.005	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					<0.005
3/2/2021		<0.005	<0.005	<0.005	
3/3/2021	0.0019 (J)				<0.005
8/20/2021				<0.005	<0.005
8/26/2021	<0.005	<0.005	<0.005		
2/8/2022				<0.005	<0.005
2/10/2022		<0.005	<0.005		
2/11/2022	<0.005				
8/30/2022		<0.005	<0.005	<0.005	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		<0.005		<0.005	
2/8/2023					<0.005
2/9/2023	<0.005		<0.005		
8/2/2023					<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	
2/20/2024	<0.005	<0.005	<0.005	<0.005	
2/22/2024					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2				12
6/2/2016	6.6				1.3	5.8	
7/25/2016			3.7		1.2		8.4
7/26/2016	6.1	5.4				6.7	
9/13/2016		2.9	5.2				
9/14/2016				9.4			8.6
9/15/2016	6.1					6	
9/19/2016					1.2		
11/1/2016		3.9			1.3	4.9	8.9
11/2/2016	6.3						
11/4/2016			5	13			
12/15/2016				1.8			
1/10/2017	5.9						
1/11/2017		3.7				4.5	8.6
1/16/2017			7.9	11	<1.5		
2/21/2017					1.4		
3/1/2017							9.3
3/2/2017		4.6	7.4			4.4	
3/3/2017				8.8			
3/8/2017	7						
4/26/2017	7				1.4	5.1	11
4/27/2017		5.2	7.4				
4/28/2017				10			
5/26/2017				12			
6/27/2017		5.9	6.4				
6/28/2017				11		5.4	12
6/30/2017	6.5				<1.5		
10/3/2017		6.6	5.9	7.9			
10/4/2017					1.4	6.2	12
10/5/2017	7.9						
6/5/2018		6.4					
6/6/2018			4.4				
6/7/2018				8.8		6.7	
6/8/2018	6.4						9.6
6/11/2018					1.1		
10/1/2018	6.8	5.6	4	9.1		7.1	9.1
10/2/2018					1		
3/28/2019		8	4.3				
3/29/2019	7.3			9			
4/1/2019					0.96 (J)	7.2	8.5
9/24/2019		5.3	4.3	9.1			
9/25/2019	6.6				0.81 (J)	7	13.8
3/18/2020	8.1		5.3				
3/19/2020		10		12.4	1.6	9	12.9
9/23/2020		8.1	3.4	11.8		6.9	16.8
9/24/2020					0.69 (J)		
9/25/2020	6.1						
3/1/2021					0.88 (J)		
3/2/2021	6						
3/3/2021		9	4.4	10.6		7	9.6
8/19/2021	6.7	8.9	4.9		1	7.5	
8/27/2021				16.7			18.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		9.3	5.1	18		7.2	16
2/10/2022	6.2						
2/11/2022					2.8		
8/30/2022		10.2		20.1			
8/31/2022	5.8		4.8		1.1	6.9	13.9
2/7/2023		10.6	6.6	17.8			
2/8/2023	6.1				0.96 (J)	7.5	14.7
8/15/2023	6	9.6	4.6	17.2		6.8	
8/16/2023					0.9 (J)		20.3
2/20/2024		9.7	4.3	23.1	0.69 (J)	7	13.8
2/23/2024	7.1						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	
8/30/2016							160
9/20/2016	78	100	5.6	21			
9/21/2016					8	<4.7 (*)	
11/7/2016	81	100	5.4	24		4.3	
11/8/2016					8.3		
11/14/2016							150
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			
2/21/2017	80	96				3	
2/22/2017				24	8.2		
2/23/2017			4.9				
2/24/2017							120
5/3/2017		100					
5/5/2017					<8.4 (*)	<4.7 (*)	
5/8/2017	84		3.9	23			120
6/30/2017			5	23			
7/5/2017					8.1		
7/7/2017						2.7	
7/10/2017	84	100					
7/11/2017							110
10/5/2017					8.6		
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					93
4/2/2018							88.8
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
9/19/2018							75
10/2/2018	83.9	99	6.1	20.2			
10/3/2018					8	2.1	
3/27/2019							65.9
4/1/2019			4.1	18.3	8.2		
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					
9/26/2019			4.2	18.2	7.9	1.6	
10/8/2019							52.3
3/17/2020							71.6
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			
9/22/2020							51.5
9/24/2020	85.6	92.3	3	16.6	7.2	0.99 (J)	
3/1/2021							51.6
3/2/2021		92.7					
3/3/2021	89.3		2.6	451 (o)	8.6	4.9	
8/19/2021		86.5					52.6
8/20/2021	84		2.9	18	8.9	5.4	
2/8/2022				16.3	8.1	10.5	50.9
2/10/2022	81.8	86.5	2.4				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	85.9	90.2					48
9/1/2022			2.5	13.5	7.6	13.4	
2/8/2023							50.5
2/9/2023	84.2	89.7	3.2	13.7	7.4	16	
8/15/2023							47.7
8/16/2023					7.8	16.2	
8/17/2023	81.1	85.7	3.3	14.2			
2/20/2024							51
2/21/2024			3.8	13	8.5	3.9	
2/22/2024	80.7	89.3					

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		1.2	1.8				
6/7/2016	4.4			<1	5.2		
7/27/2016	4.7	1.7	1.9	0.08 (J)			
7/28/2016					5.1		
9/16/2016	4.8		1.7				
9/19/2016		1.8		0.08 (J)	4.8		
11/2/2016				0.1 (J)			
11/3/2016	5.3	0.69 (J)	1.9		5		
1/11/2017	5.2	<1	1.7				
1/13/2017				<1	4.3		
3/1/2017		1.8	<1.5				
3/2/2017	5						
3/6/2017				<1	4.5		
4/26/2017		1.6	1.9	<1	4.9		
5/2/2017	5						
6/28/2017		<1	<1.5				
6/29/2017	5.2			<1	5.5		
10/3/2017					5.8		
10/4/2017	5.3		1.7	<1			
10/5/2017		1.6					
10/11/2017						20	
10/12/2017							17
11/20/2017						24	71
1/10/2018							66
1/11/2018						23	
2/19/2018							57.2
2/20/2018						20.6	
4/3/2018						24.5	49.4
6/5/2018					6.1		
6/6/2018				0.049 (J)			
6/7/2018		0.68 (J)					
6/11/2018	5.2		0.95 (J)				
6/28/2018						22	43.8
8/7/2018						20.7	40.5
9/24/2018						21.2	39.7
9/25/2018	6.1	1	1.5	0.13 (J)	7		
3/26/2019							34.3
3/27/2019						17.7	
4/2/2019	5.1				3.8		
4/3/2019		0.82 (J)	1.3	0.12 (J)			
9/24/2019					1		
9/25/2019	5.5			<1			
9/26/2019		0.64 (J)	1				
10/9/2019						15	27.9
3/24/2020	5.4	<1	0.99 (J)	<1	3		25.2
3/25/2020						14.3	
9/23/2020	5.1	0.53 (J)	1.1				
9/24/2020				<1	3.6	11.7	22.9
3/3/2021	5.2	<1	1	<1			
3/4/2021					4.5	12	21.5
8/26/2021			1.2			19.2	
8/27/2021	5.3	0.59 (J)		<1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					5		
9/3/2021							21.3
2/8/2022						14.6	17.9
2/9/2022	4.8	0.51 (J)	1.1	<1	3.9		
8/30/2022	4.7	0.78 (J)	1.3		3.2		
8/31/2022				<1		10.9	17.9
2/7/2023	4.9	0.78 (J)	1.2	<1	3.8	9.7	
2/8/2023							17.5
8/15/2023	4.6	0.51 (J)	0.88 (J)	<1	4.1	7.6	16.4
2/20/2024	4.6	<1		<1	3.8	8.6	17.2
2/23/2024			0.79 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	8	20	1.9		
6/9/2016					33
7/26/2016	7.7	20	1.8		
8/2/2016					32
8/31/2016				29	
9/14/2016	7.5	19	1.8		
9/21/2016					32
11/2/2016	8.2	20			
11/4/2016			2		
11/7/2016					33
11/28/2016				36	
1/12/2017		19	1.9		
1/13/2017	8.1				
1/19/2017					32
2/22/2017				43	31
3/6/2017	8				
3/7/2017		20	2.1		
5/1/2017	8.4	20			
5/2/2017			2		
5/8/2017				60	32
6/27/2017		18	2.1		
6/29/2017	9.2				
7/5/2017					31
7/17/2017				63	
10/3/2017		16	2.3		
10/5/2017	9.6				31
10/16/2017				62	
2/19/2018				64.6	
6/6/2018		8.3			
6/7/2018	8.5		2		
6/11/2018					30.6
8/6/2018				42.1	
9/26/2018	10.2	7.9	2.3		
10/2/2018					30.8
2/25/2019				42.1	
4/1/2019					30.4
4/3/2019	8.5	7	2.1		
6/12/2019				83.4	
9/24/2019		5.5	2.4		
9/25/2019	8.5				30
10/8/2019				128	
3/17/2020				98.6	
3/20/2020					33
3/24/2020		5.9	2.1		
3/25/2020	8.8				
9/22/2020	8.2	5.5	2.1	145	
9/24/2020					26.2
3/2/2021		2.6	2.3	156	
3/3/2021	7.8				26.6
8/20/2021				121	24.7
8/26/2021	8.5	6	2.4		
2/8/2022				107	22.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		4.9	2.4		
2/11/2022	7.7				
8/30/2022		5.7	2.4	101	
8/31/2022	8				
9/1/2022					21.2
2/7/2023		5.2		82.4	
2/8/2023					23.7
2/9/2023	8.9		2.9		
8/2/2023					22.9
8/15/2023	7.5	4.8	2.2	74.2	
2/20/2024	8.5	5.1	2.5	75	
2/22/2024					26.9

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.001	<0.001				<0.001
6/2/2016	<0.001				<0.001	<0.001	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		<0.001	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					<0.001	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		<0.001	<0.001			<0.001	
3/3/2017				<0.001			
3/8/2017	<0.001						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		<0.001	5.5E-05 (J)				
2/11/2020				<0.001			<0.001
2/12/2020	8.9E-05 (J)				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/23/2020		<0.001	<0.001	<0.001		<0.001	0.00016 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	<0.001			<0.001		<0.001	<0.001
2/11/2021					<0.001		
2/12/2021		<0.001	<0.001				
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		
8/30/2022		<0.001		<0.001			
8/31/2022	<0.001		<0.001		<0.001	<0.001	<0.001
2/7/2023		<0.001	<0.001	<0.001			
2/8/2023	<0.001				<0.001	<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001		<0.001	
8/16/2023					<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024	<0.001						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.001	<0.001	<0.001	0.00012 (J)			
6/9/2016					<0.001	<0.001	
8/1/2016	<0.001	<0.001	<0.001	0.0001 (J)			
8/2/2016					<0.001	<0.001	
8/30/2016							<0.001
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					<0.001	<0.001	
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	
11/8/2016					<0.001		
11/14/2016							<0.001
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		
2/23/2017			<0.001				
2/24/2017							<0.001
5/3/2017		<0.001					
5/5/2017					<0.001	<0.001	
5/8/2017	<0.001		<0.001	0.0001 (J)			<0.001
6/30/2017			<0.001	0.0001 (J)			
7/5/2017					<0.001		
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
7/11/2017							<0.001
10/10/2017							<0.001
3/29/2018			<0.001	<0.001			
3/30/2018	<0.001	<0.001			<0.001	<0.001	
4/2/2018							<0.001
9/19/2018							<0.001
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/20/2019							5.8E-05 (J)
10/8/2019							8.4E-05 (J)
2/13/2020	<0.001	5.7E-05 (J)	<0.001	0.0001 (J)	<0.001	<0.001	
3/17/2020							<0.001
3/19/2020		5.5E-05 (J)			<0.001	<0.001	
3/20/2020	<0.001		<0.001	0.00011 (J)			
8/27/2020							<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/10/2021	<0.001	<0.001	<0.001	<0.001			
2/11/2021					<0.001		
2/12/2021						<0.001	
8/19/2021							<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					<0.001
9/1/2022			<0.001	<0.001	<0.001	<0.001	
2/8/2023							<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/15/2023							<0.001
8/16/2023					<0.001	<0.001	
8/17/2023	<0.001	<0.001	<0.001	<0.001			
2/20/2024							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/21/2024			<0.001	<0.001	<0.001	<0.001	
2/22/2024	<0.001	<0.001					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.001	<0.001				
6/7/2016	<0.001			<0.001	<0.001		
7/27/2016	<0.001	<0.001	<0.001	<0.001			
7/28/2016					<0.001		
9/16/2016	<0.001		<0.001				
9/19/2016		<0.001		<0.001	<0.001		
11/2/2016				<0.001			
11/3/2016	<0.001	<0.001	<0.001		<0.001		
1/11/2017	<0.001	<0.001	<0.001				
1/13/2017				<0.001	<0.001		
3/1/2017		<0.001	<0.001				
3/2/2017	<0.001						
3/6/2017				<0.001	<0.001		
4/26/2017		<0.001	<0.001	<0.001	<0.001		
5/2/2017	<0.001						
6/28/2017		<0.001	<0.001				
6/29/2017	<0.001			<0.001	<0.001		
10/11/2017						<0.001	
10/12/2017							<0.001
11/20/2017						<0.001	<0.001
1/10/2018							<0.001
1/11/2018						<0.001	
2/19/2018							<0.001
2/20/2018						<0.001	
3/28/2018	<0.001	<0.001	<0.001				
3/29/2018				<0.001	<0.001		
4/3/2018						<0.001	<0.001
6/28/2018						<0.001	<0.001
8/7/2018						<0.001	<0.001
9/24/2018						<0.001	<0.001
9/25/2018					<0.001		
3/5/2019	<0.001		<0.001	<0.001	<0.001		
3/6/2019		<0.001					
4/2/2019	<0.001				<0.001		
4/3/2019		<0.001	<0.001	<0.001			
8/21/2019						<0.001	<0.001
9/24/2019					<0.001		
9/25/2019	<0.001			<0.001			
9/26/2019		<0.001	<0.001				
2/11/2020	<0.001	<0.001	<0.001				
2/12/2020				<0.001	<0.001	<0.001	<0.001
3/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
3/25/2020						<0.001	
9/23/2020	<0.001	<0.001	<0.001				
9/24/2020				<0.001	<0.001	<0.001	<0.001
2/9/2021		<0.001	<0.001	<0.001	<0.001		
2/10/2021						<0.001	<0.001
2/8/2022						<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/30/2022	<0.001	<0.001	<0.001		<0.001		
8/31/2022				<0.001		<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/8/2023							<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/23/2024			<0.001				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.001	
9/11/2007				<0.001	
3/20/2008				<0.001	
8/27/2008				<0.001	
3/3/2009				<0.001	
11/18/2009				<0.001	
3/3/2010				<0.001	
9/8/2010				<0.001	
3/10/2011				<0.001	
9/8/2011				<0.001	
3/5/2012				<0.001	
9/10/2012				<0.001	
2/6/2013				<0.001	
8/12/2013				<0.001	
2/5/2014				<0.001	
8/5/2014				<0.001	
2/4/2015				<0.001	
2/16/2016				<0.001	
6/2/2016	<0.001	<0.001	<0.001		
6/9/2016					<0.001
7/26/2016	<0.001	<0.001	<0.001		
8/2/2016					<0.001
8/31/2016				<0.001	
9/14/2016	<0.001	<0.001	<0.001		
9/21/2016					<0.001
11/2/2016	<0.001	<0.001			
11/4/2016			<0.001		
11/7/2016					<0.001
11/28/2016				<0.001	
1/12/2017		<0.001	<0.001		
1/13/2017	<0.001				
1/19/2017					<0.001
2/22/2017				<0.001	<0.001
3/6/2017	<0.001				
3/7/2017		<0.001	<0.001		
5/1/2017	<0.001	<0.001			
5/2/2017			<0.001		
5/8/2017				6E-05 (J)	<0.001
6/27/2017		<0.001	<0.001		
6/29/2017	<0.001				
7/5/2017					<0.001
7/17/2017				6E-05 (J)	
10/16/2017				7E-05 (J)	
2/19/2018				<0.001	
3/29/2018	<0.001	<0.001	<0.001		<0.001
8/6/2018				<0.001	
2/25/2019				<0.001	
2/27/2019					<0.001
3/4/2019	<0.001	<0.001	<0.001		
4/3/2019	<0.001	<0.001	<0.001		
6/12/2019				<0.001	
8/19/2019				5.5E-05 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
9/24/2019		<0.001	<0.001		
9/25/2019	<0.001				
10/8/2019				<0.001	
2/12/2020	<0.001	<0.001	<0.001		
2/13/2020					<0.001
3/17/2020				<0.001	
3/20/2020					<0.001
3/24/2020		<0.001	<0.001		
3/25/2020	<0.001				
8/26/2020				<0.001	
9/22/2020	<0.001	<0.001	<0.001	<0.001	
9/24/2020					<0.001
2/8/2021		<0.001	<0.001		
2/9/2021	<0.001				
2/12/2021					<0.001
3/2/2021				<0.001	
8/20/2021				<0.001	
2/8/2022				<0.001	<0.001
2/10/2022		<0.001	<0.001		
2/11/2022	<0.001				
8/30/2022		<0.001	<0.001	<0.001	
8/31/2022	<0.001				
9/1/2022					<0.001
2/7/2023		<0.001		<0.001	
2/8/2023					0.00021 (J)
2/9/2023	<0.001		<0.001		
8/2/2023					<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	
2/20/2024	<0.001	<0.001	<0.001	<0.001	
2/22/2024					<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:49 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54				150
6/2/2016	46				36	130	
7/25/2016			48		50		135
7/26/2016	54	94				141	
9/13/2016		105	67				
9/14/2016				152			127
9/15/2016	54					153	
9/19/2016					35		
11/1/2016		44			<25	92	75
11/2/2016	71						
11/4/2016			60	148			
12/15/2016				191			
1/10/2017	45						
1/11/2017		107				159	148
1/16/2017			65	180	47		
2/21/2017					<25		
3/1/2017							182
3/2/2017		98	61			117	
3/3/2017				156			
3/8/2017	178						
4/26/2017	52				55	181	92
4/27/2017		116	31				
4/28/2017				130			
5/26/2017				223			
6/27/2017		89	42				
6/28/2017				166		169	126
6/30/2017	45				42		
10/3/2017		119	58	153			
10/4/2017					31	141	147
10/5/2017	40						
6/5/2018		127					
6/6/2018			96				
6/7/2018				146		95	
6/8/2018	114						158
6/11/2018					59		
10/1/2018	50	117	60	155		165	138
10/2/2018					57		
3/28/2019		87	87				
3/29/2019	63			150			
4/1/2019					54	149	19 (J)
9/24/2019		124	54	146			
9/25/2019	64				51	157	159
3/18/2020	57		35				
3/19/2020		116		148	47	146	148
9/23/2020		108	15	161		157	155
9/24/2020					51		
9/25/2020	54						
3/1/2021					23		
3/2/2021	67						
3/3/2021		99	39	138		137	111
8/19/2021	54	105	44		50	144	
8/27/2021				150			155

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		105	57	156		154	145
2/10/2022	56						
2/11/2022					66		
8/30/2022		116		153			
8/31/2022	51		46		33	141	137
2/7/2023		131	121	159			
2/8/2023	56				43	144	145
8/15/2023	69	121	65	157		231	
8/16/2023					48		148
2/20/2024		130 (D6)	59	159	55	294	220
2/23/2024	64						

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	220	200	190	210			
6/9/2016					240	210	
8/1/2016	211	191	191	209			
8/2/2016					226	202	
8/30/2016							319
9/20/2016	217	213	205	224			
9/21/2016					214	216	
11/7/2016	301	284	264	291		399	
11/8/2016					229		
11/14/2016							280
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			
2/21/2017	158	137				198	
2/22/2017				262	310		
2/23/2017			253				
2/24/2017							162
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			194
6/30/2017			193	209			
7/5/2017					217		
7/7/2017						236	
7/10/2017	219	183					
7/11/2017							193
10/5/2017					221		
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					175
4/2/2018							192
6/12/2018				208	234	243	
6/13/2018	228	196	219				
9/19/2018							186
10/2/2018	227	191	227	206			
10/3/2018					232	237	
3/27/2019							170
4/1/2019			198	221	238		
4/2/2019	223	224				<25	
9/25/2019	225	190					
9/26/2019			198	225	241	239	
10/8/2019							172
3/17/2020							165
3/19/2020		194			212	202	
3/20/2020	211		195	182			
9/22/2020							141
9/24/2020	212	171	186	185	209	226	
3/1/2021							145
3/2/2021		154					
3/3/2021	205		173	178	184	217	
8/19/2021		176					134
8/20/2021	224		196	169	194	192	
2/8/2022				159	206	216	151
2/10/2022	207	168	190				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	228	206					116
9/1/2022			193	124	186	225	
2/8/2023							141
2/9/2023	366	196	189	116	184	226	
8/15/2023							186
8/16/2023					171	233	
8/17/2023	248	207	186	137			
2/20/2024							159
2/21/2024			194	149	213	235	
2/22/2024	215	188					

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		120	58				
6/7/2016	28			38	60		
7/27/2016	74	94	35	74			
7/28/2016					81		
9/16/2016	67		35				
9/19/2016		92		45	68		
11/2/2016				53			
11/3/2016	41	104	48		61		
1/11/2017	104	133	95				
1/13/2017				46	76		
3/1/2017		119	79				
3/2/2017	77						
3/6/2017				164	167		
4/26/2017		162	36	34	50		
5/2/2017	142						
6/28/2017		98	45				
6/29/2017	53			68	94		
10/3/2017					149		
10/4/2017	61		45	54			
10/5/2017		104					
10/11/2017						68	
10/12/2017							74
11/20/2017						139	179
1/10/2018							140
1/11/2018						153	
2/19/2018							119
2/20/2018						87	
4/3/2018						85	106
6/5/2018					109		
6/6/2018				79			
6/7/2018		68					
6/11/2018	70		74				
6/28/2018						88	112
8/7/2018						89	103
9/24/2018						82	107
9/25/2018	86	109	63	73	122		
3/26/2019							90
3/27/2019						75	
4/2/2019	72				134		
4/3/2019		89	63	57			
9/24/2019					157		
9/25/2019	81			75			
9/26/2019		126	72				
10/9/2019						119	98
3/24/2020	71	91	59	76	117		84
3/25/2020						158	
9/23/2020	99	103	81				
9/24/2020				69	113	170	77
3/3/2021	57	95	37	53			
3/4/2021					110	168	57
8/26/2021			31			249	
8/27/2021	93	112		67			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					137		
9/3/2021							88
2/8/2022						248	93
2/9/2022	81	103	60	72	131		
8/30/2022	81	100	52		122		
8/31/2022				62		242	92
2/7/2023	78	96	55	89	163	224	
2/8/2023							115
8/15/2023	74	96	81	62	126	225	83
2/20/2024	77	129		164	156	233	109
2/23/2024			52				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	96	160	66		
6/9/2016					150
7/26/2016	92	177	78		
8/2/2016					155
8/31/2016				209	
9/14/2016	102	187	73		
9/21/2016					138
11/2/2016	115	181			
11/4/2016			75		
11/7/2016					291
11/28/2016				102	
1/12/2017		202	86		
1/13/2017	67				
1/19/2017					145 (D)
2/22/2017				164	185
3/6/2017	159				
3/7/2017		257	108		
5/1/2017	107	165			
5/2/2017			103		
5/8/2017				145	114
6/27/2017		189	73		
6/29/2017	79				
7/5/2017					136
7/17/2017				185	
10/3/2017		170	89		
10/5/2017	95				139
10/16/2017				218	
2/19/2018				173	
6/6/2018		151			
6/7/2018	90		142		
6/11/2018					156
8/6/2018				158	
9/26/2018	116	144	86		
10/2/2018					154
2/25/2019				92	
4/1/2019					147
4/3/2019	111	142	83		
6/12/2019				226	
9/24/2019		129	79		
9/25/2019	117				162
10/8/2019				276	
3/17/2020				185	
3/20/2020					137
3/24/2020		139	68		
3/25/2020	146				
9/22/2020	83	104	75	281	
9/24/2020					133
3/2/2021		52	67	296	
3/3/2021	80				110
8/20/2021				254	110
8/26/2021	93	123	86		
2/8/2022				283	120

Time Series

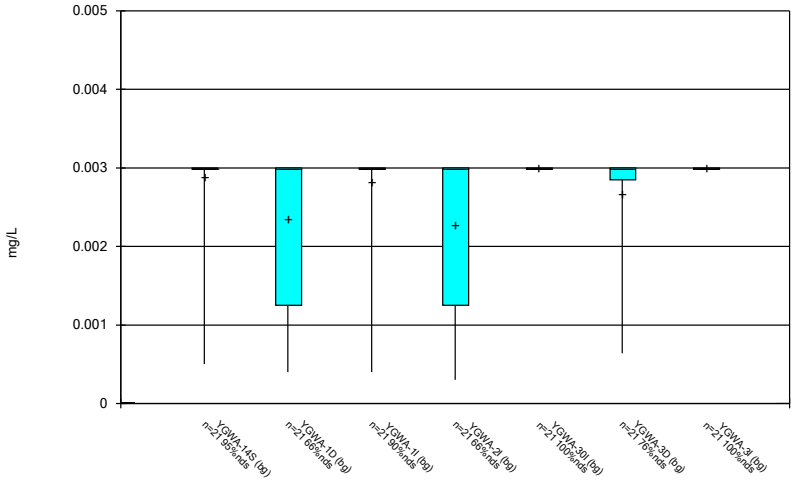
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		127	77		
2/11/2022	102				
8/30/2022		148	86	244	
8/31/2022	92				
9/1/2022					128
2/7/2023		180		207	
2/8/2023					158
2/9/2023	124		59		
8/2/2023					152
8/15/2023	99	219	76	230	
2/20/2024	140	639 (o)	137	214	
2/22/2024					146

FIGURE B.

Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

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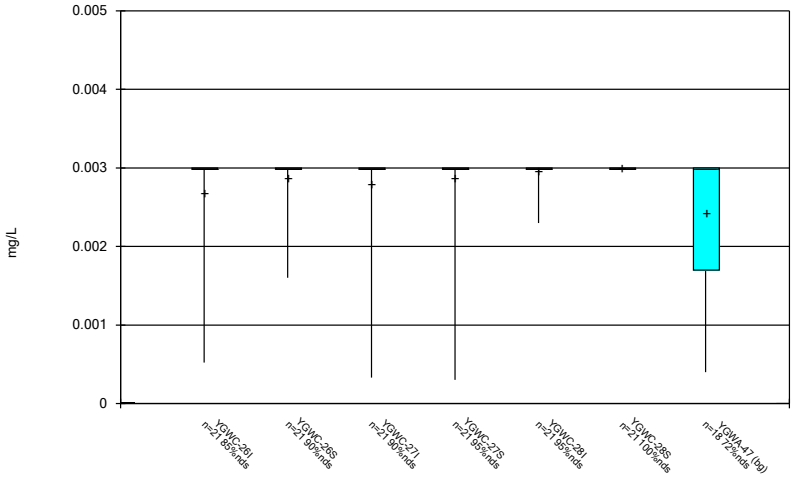
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

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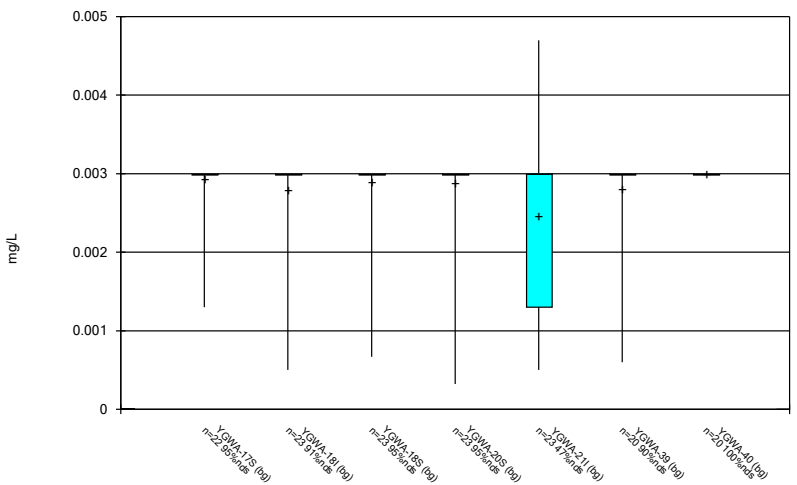
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

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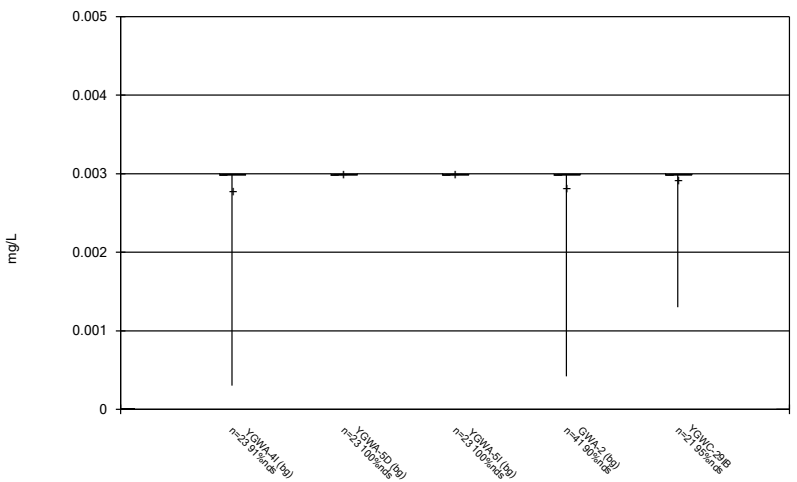
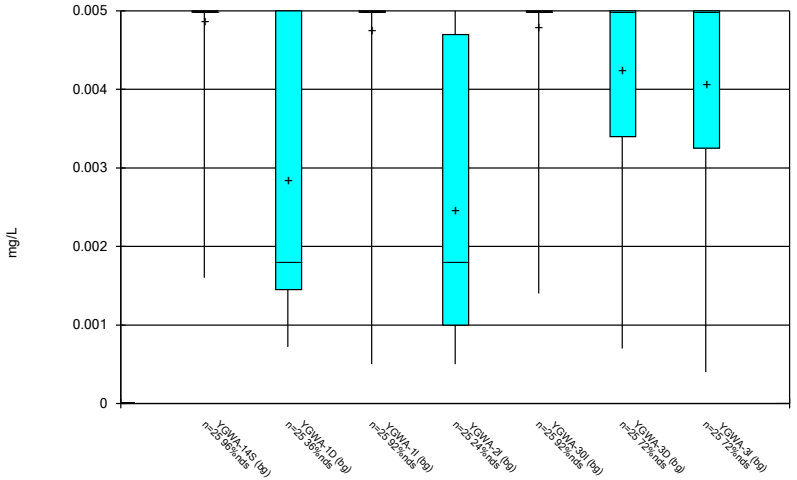
Box & Whiskers Plot



Constituent: Antimony Analysis Run 5/2/2024 9:50 AM

Plant Yates Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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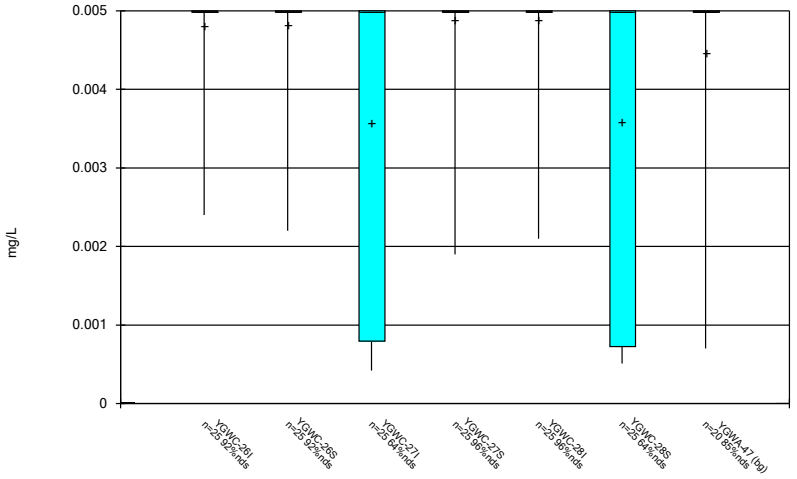
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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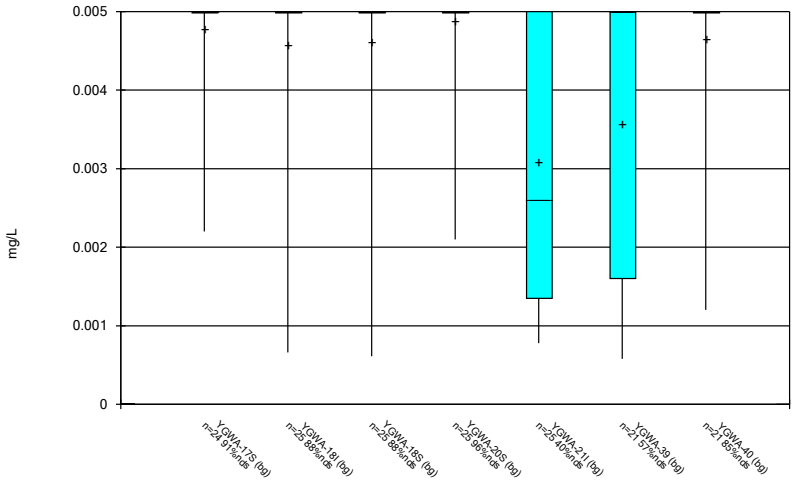
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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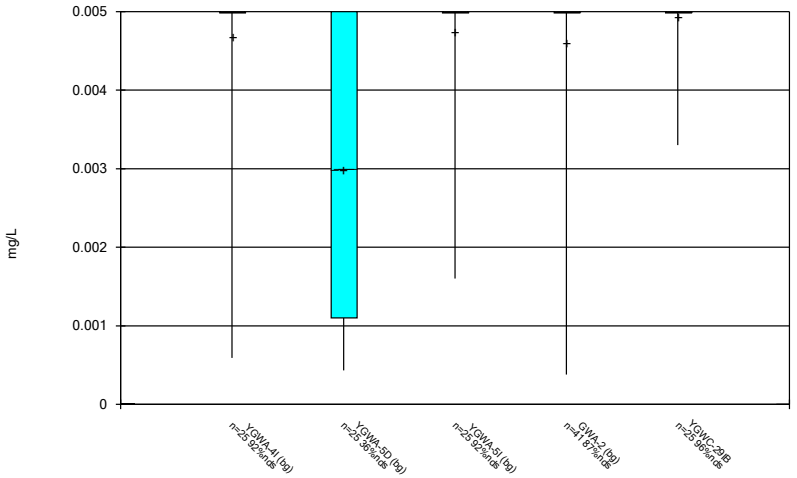
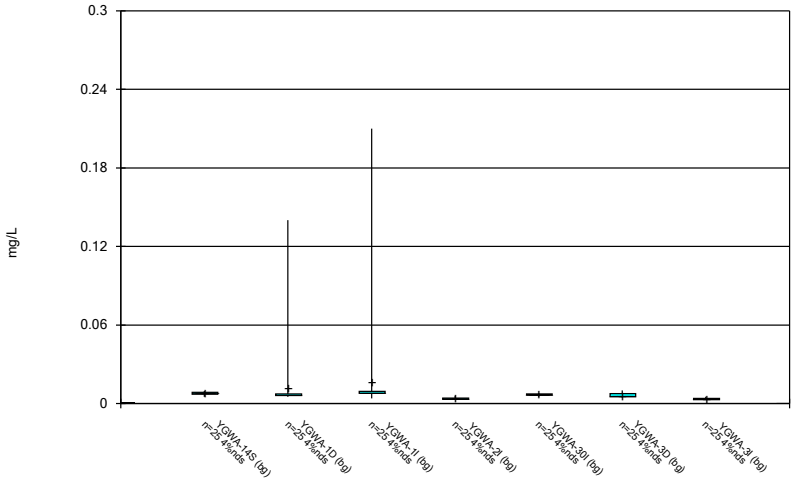
Box & Whiskers Plot



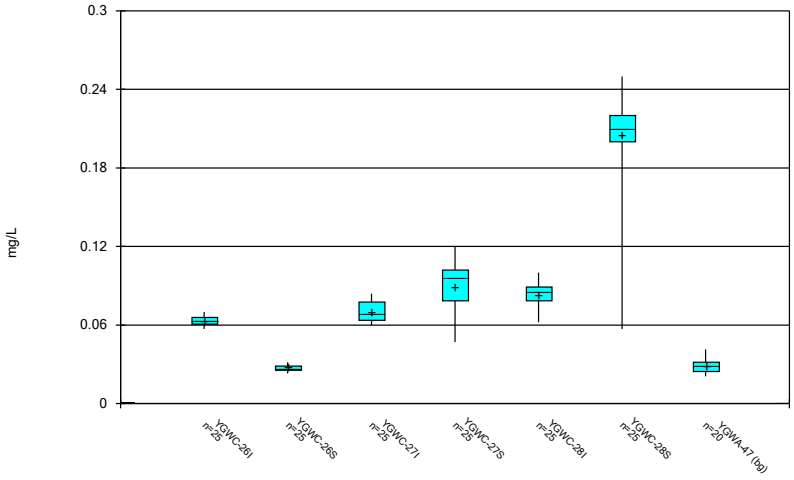
Constituent: Arsenic Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

Box & Whiskers Plot



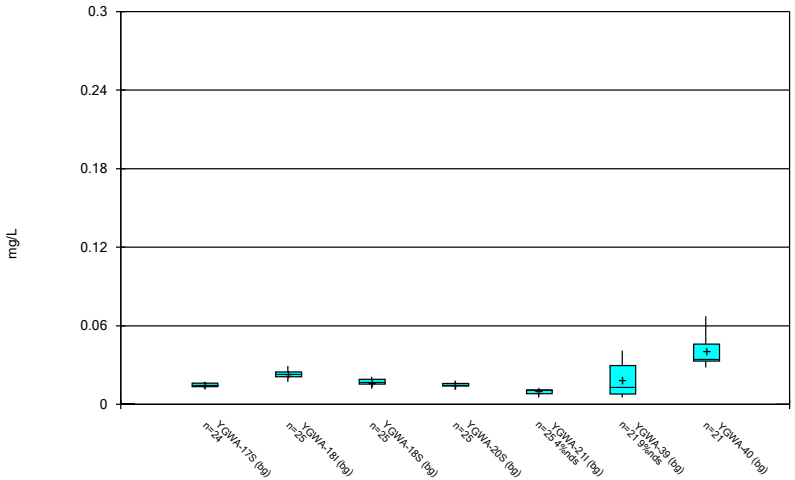
Constituent: Barium Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

Box & Whiskers Plot



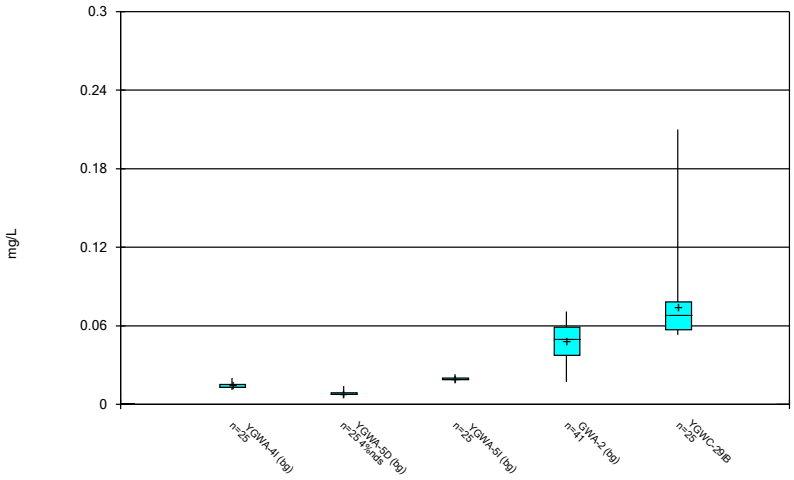
Constituent: Barium Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

Box & Whiskers Plot



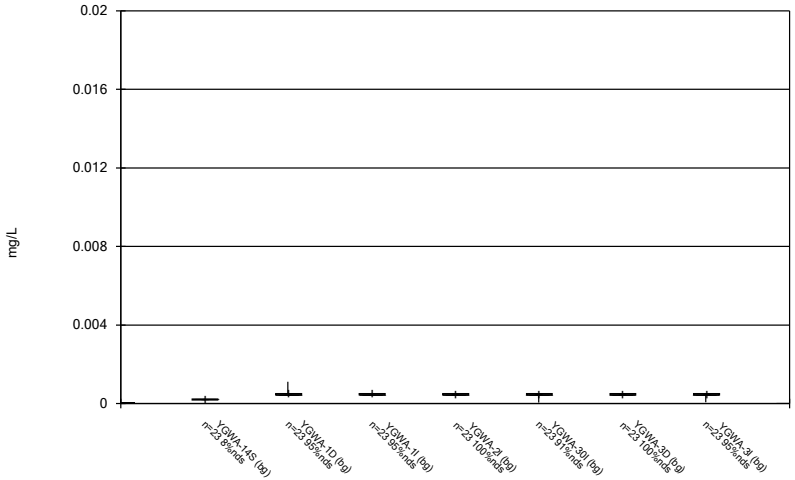
Constituent: Barium Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Barium Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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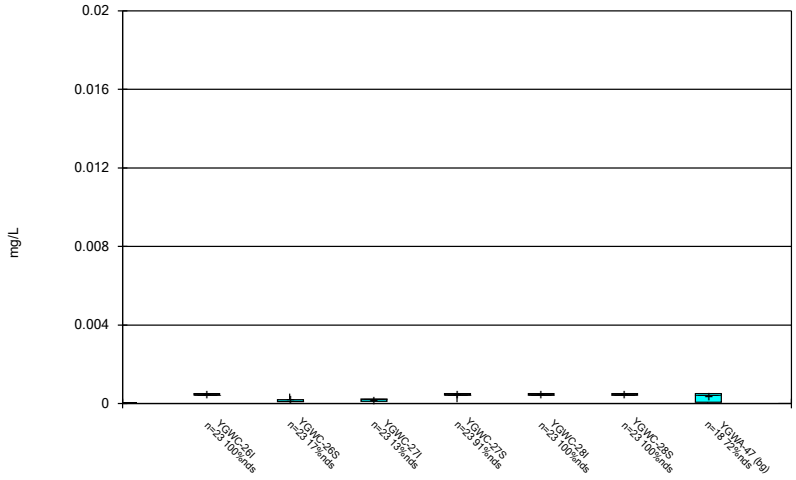
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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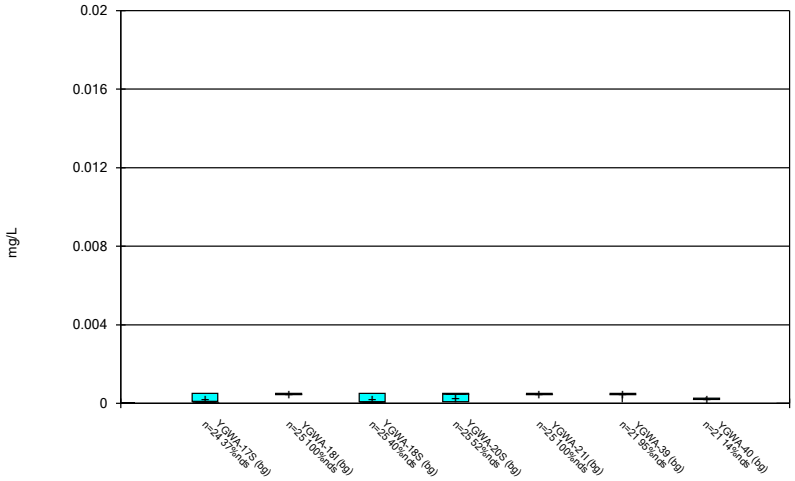
Box & Whiskers Plot



Constituent: Beryllium Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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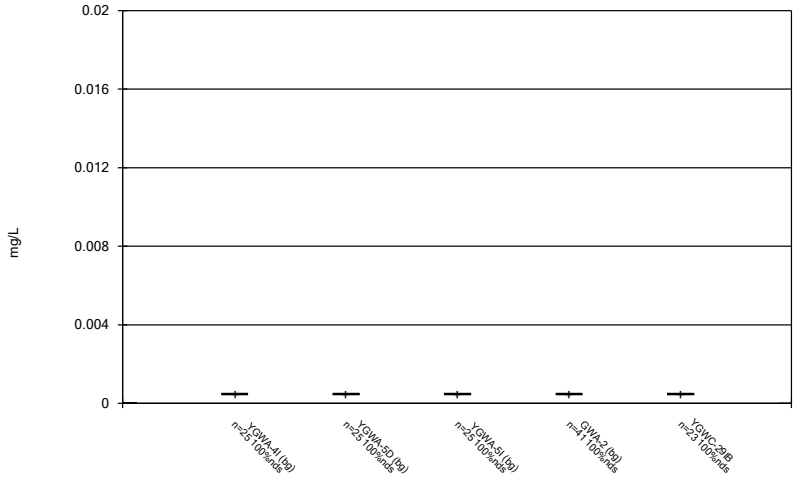
Box & Whiskers Plot



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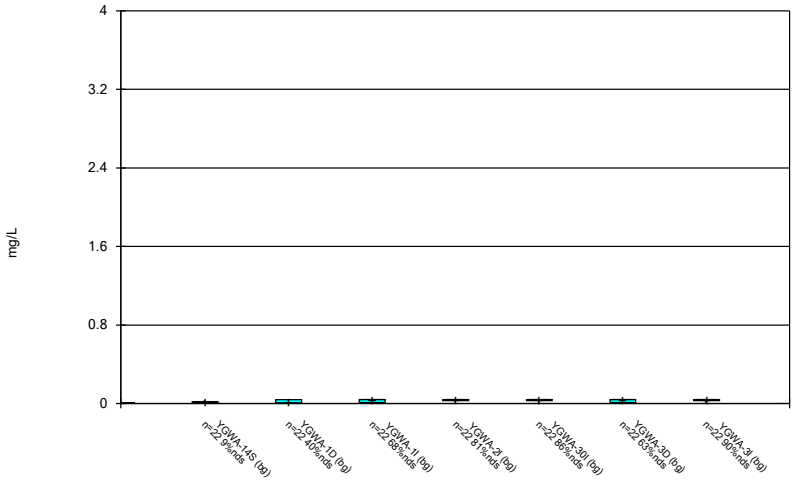
Plant Yates Data: Yates Ash Pond 2

Box & Whiskers Plot



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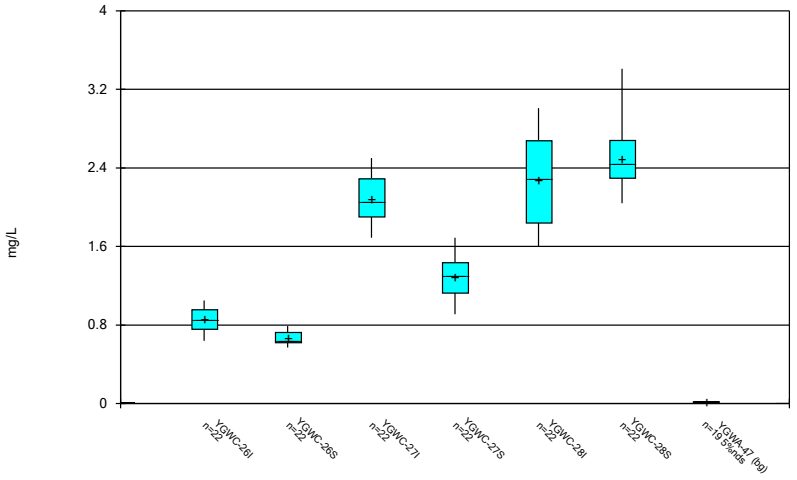
Box & Whiskers Plot



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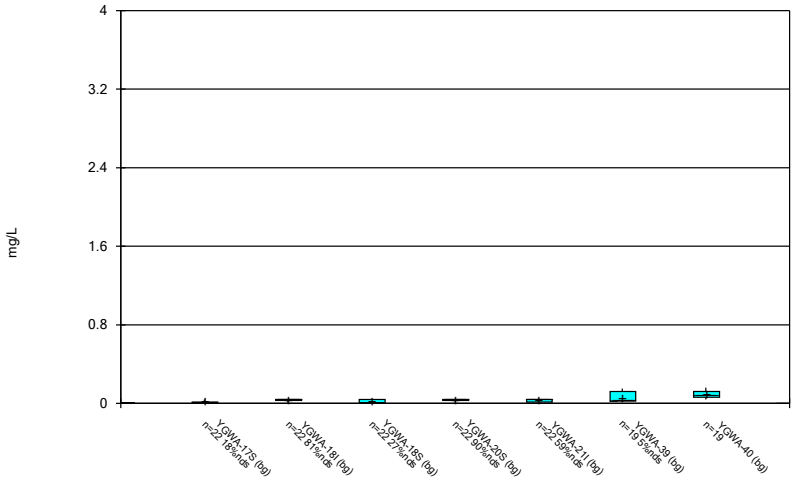
Box & Whiskers Plot



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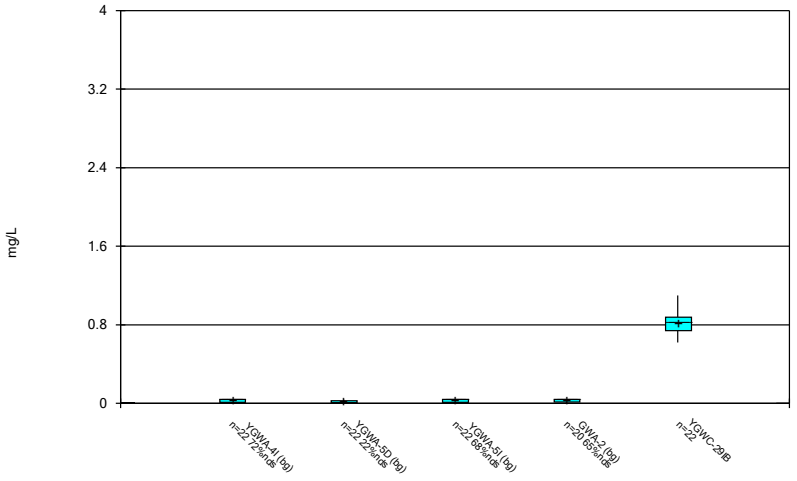
Box & Whiskers Plot



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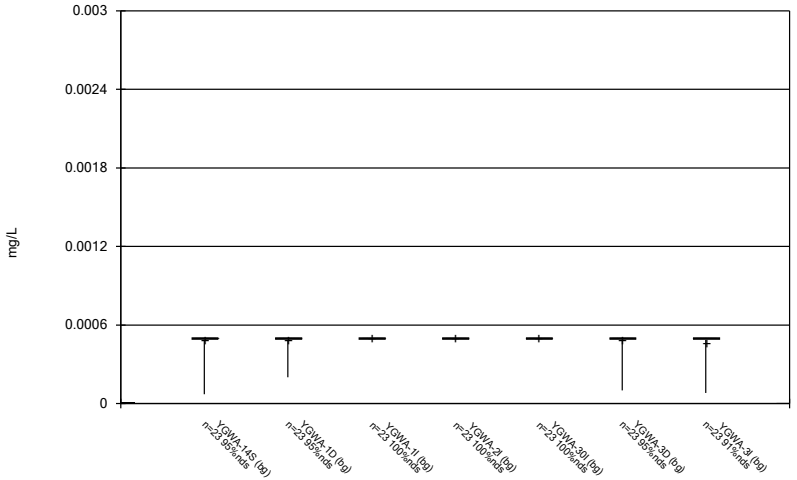

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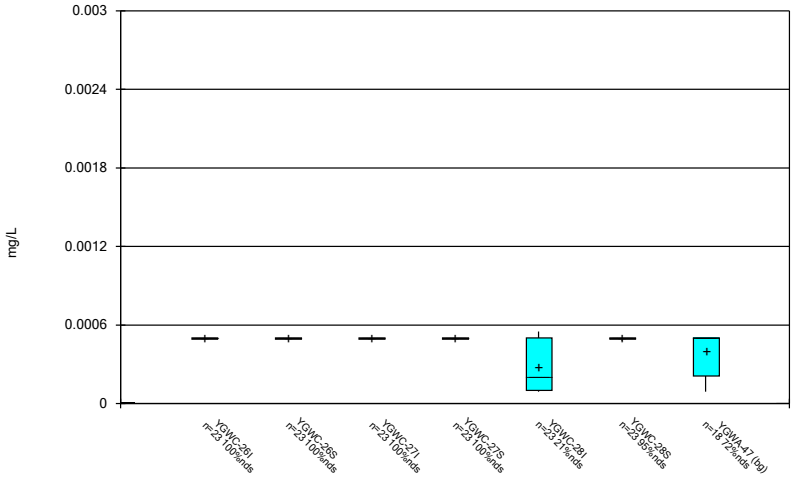
Box & Whiskers Plot



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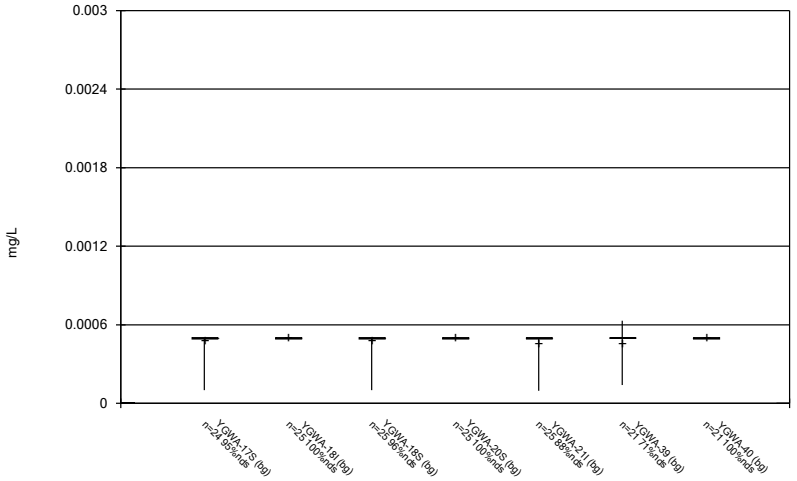
Box & Whiskers Plot



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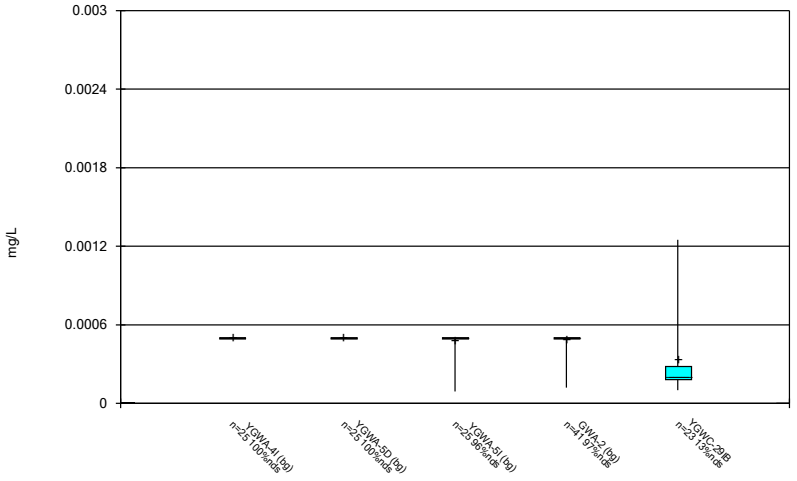
Box & Whiskers Plot



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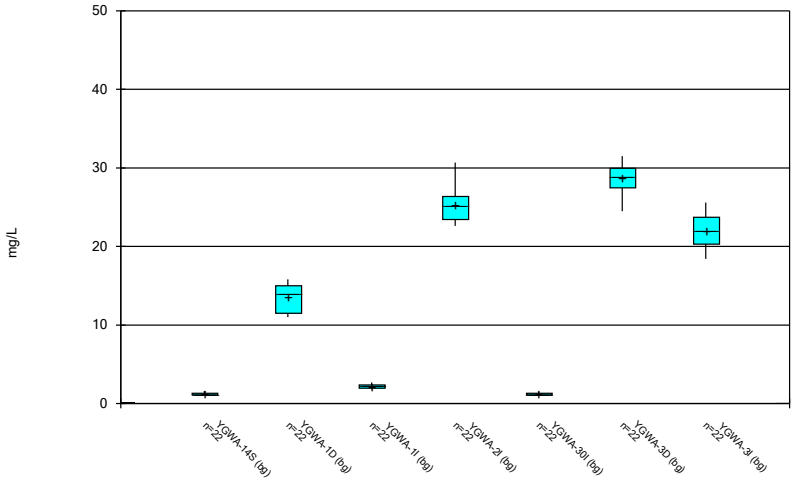
Box & Whiskers Plot



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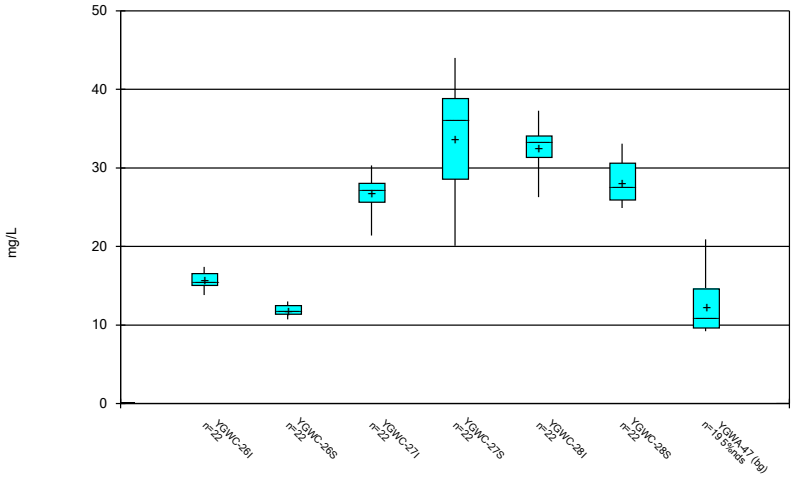
Box & Whiskers Plot



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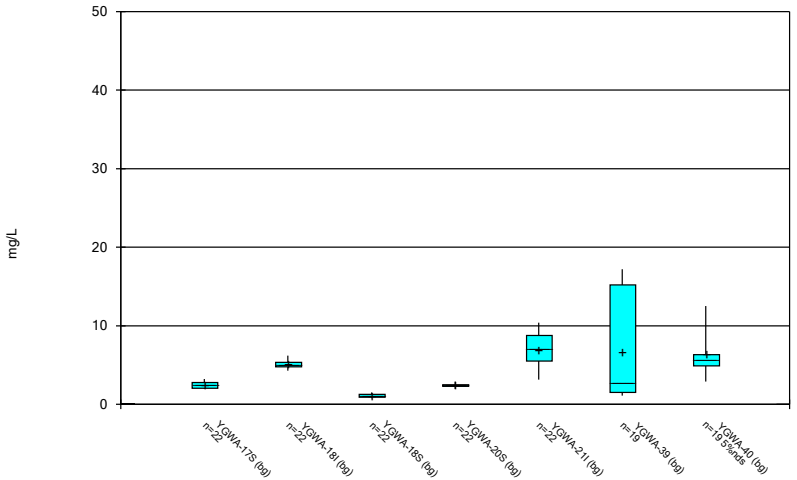
Box & Whiskers Plot



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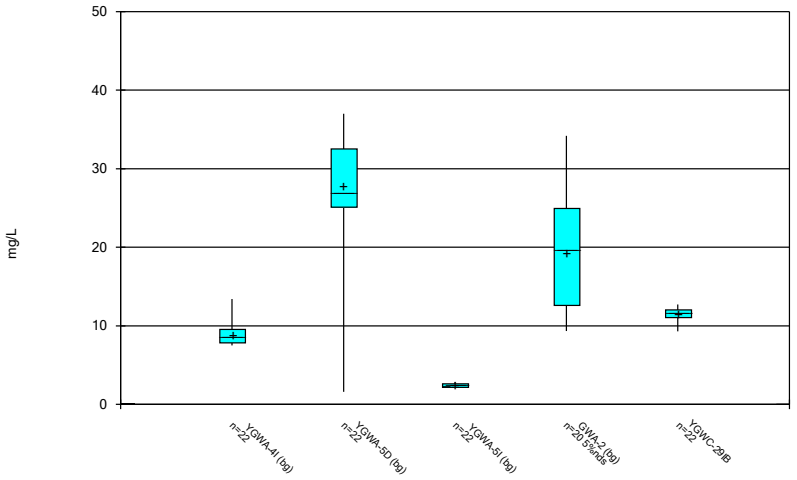
Box & Whiskers Plot



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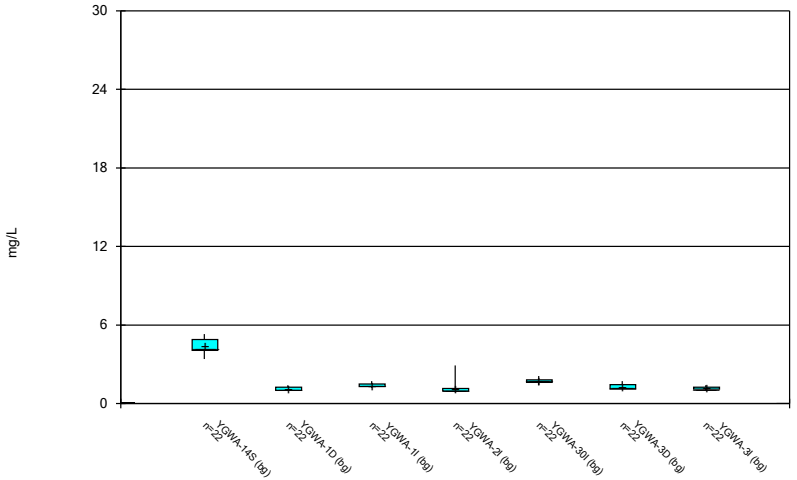
Box & Whiskers Plot



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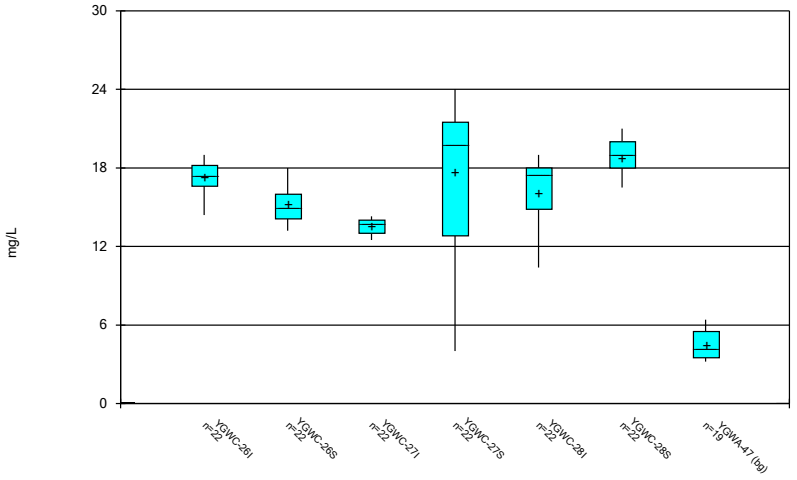
Box & Whiskers Plot



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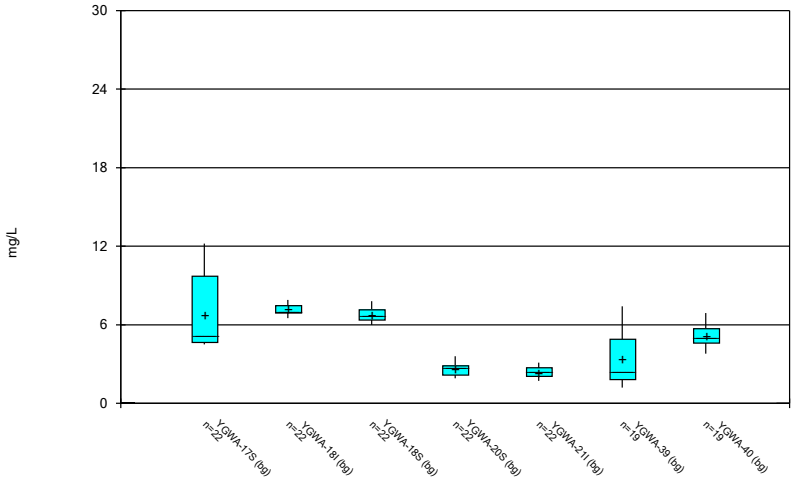
Box & Whiskers Plot



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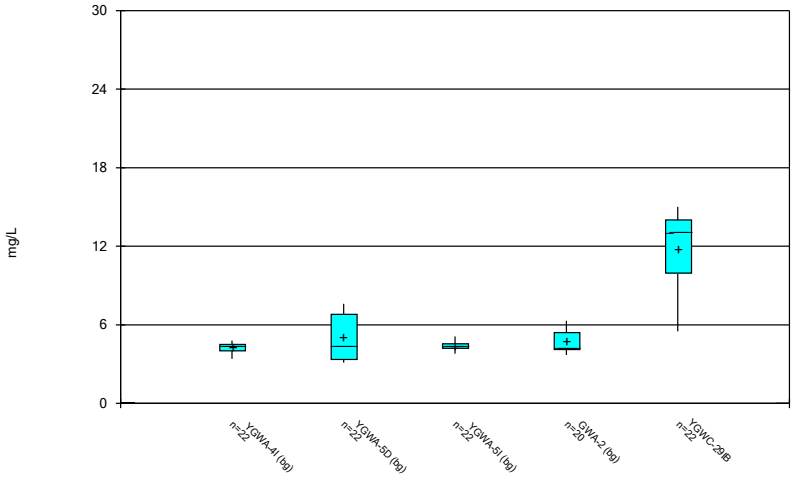
Box & Whiskers Plot



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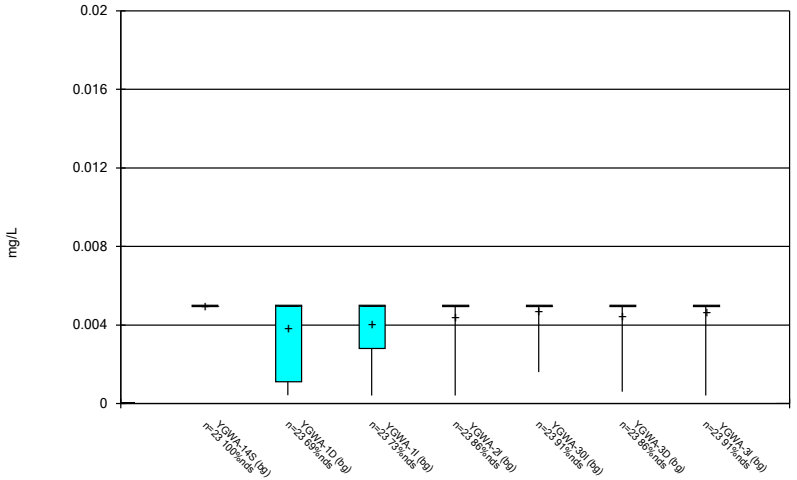

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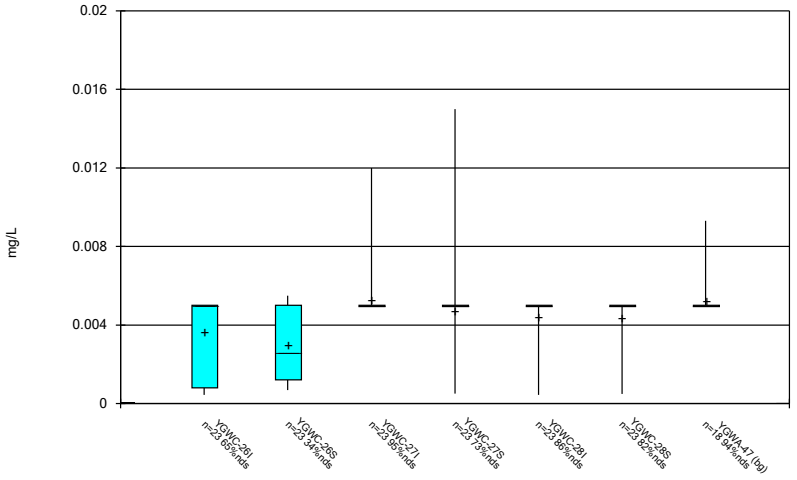
Box & Whiskers Plot



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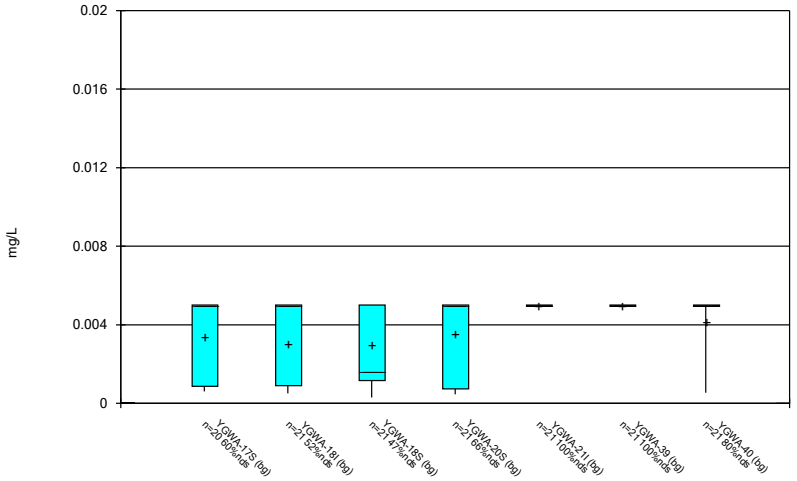
Box & Whiskers Plot



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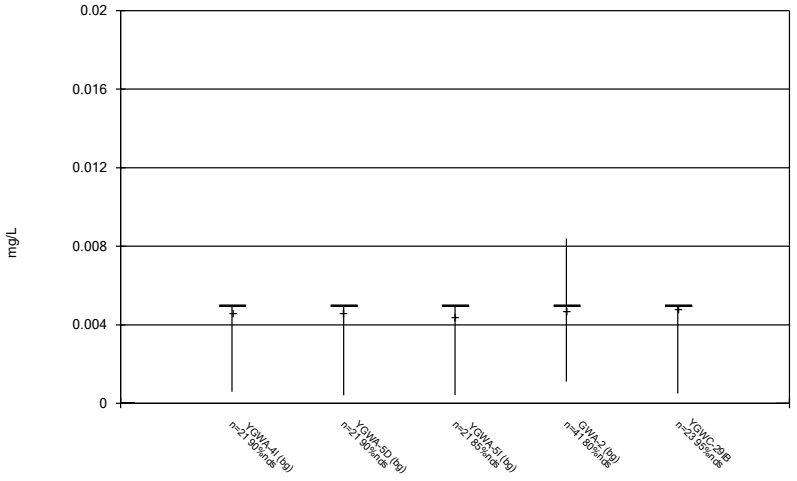

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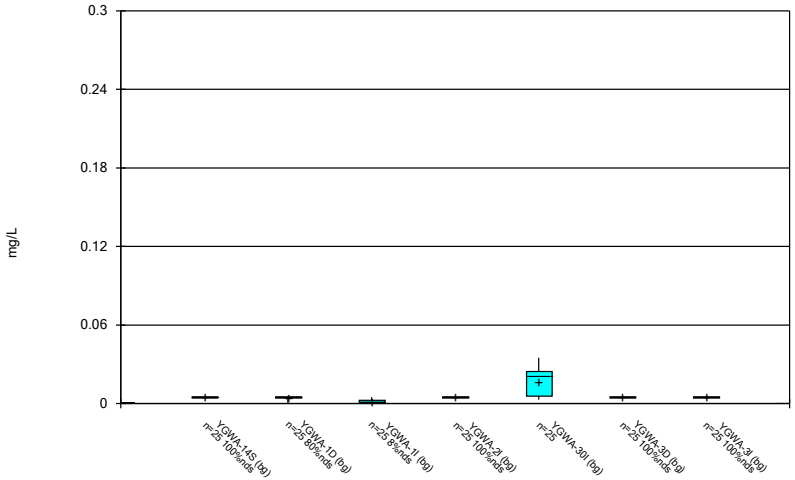

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Plant Yates Data: Yates Ash Pond 2

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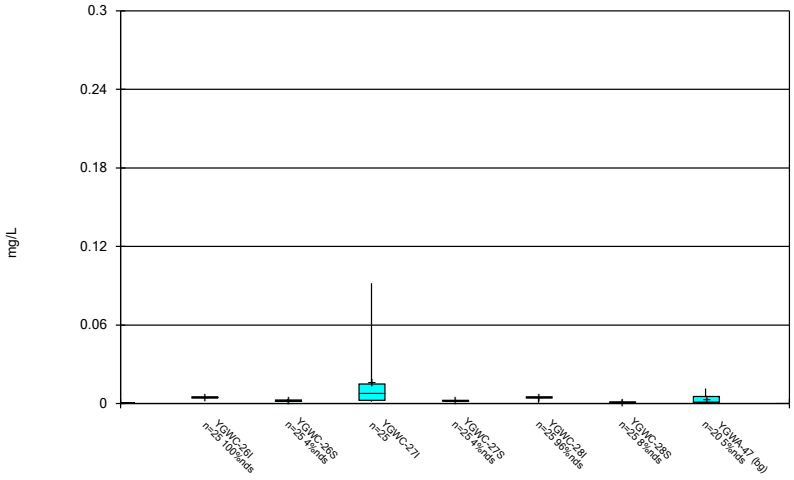
Box & Whiskers Plot



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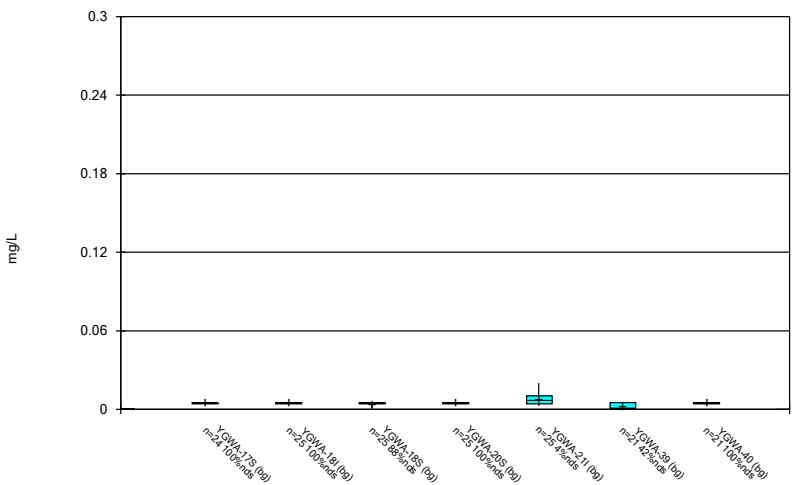
Box & Whiskers Plot



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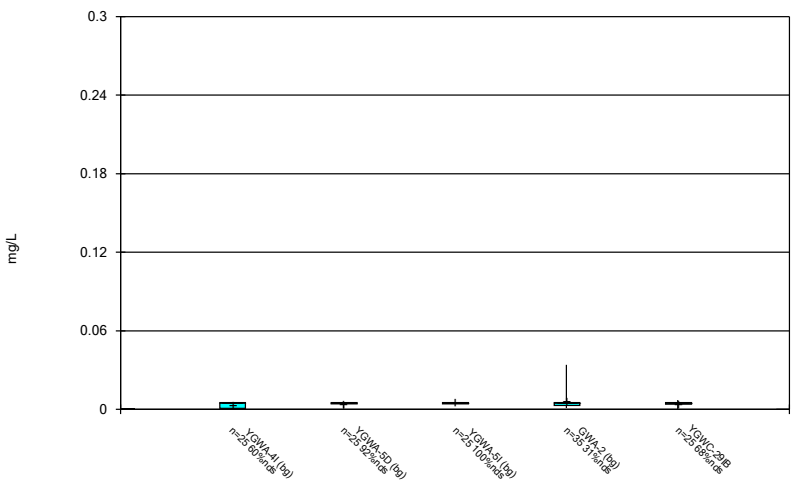
Box & Whiskers Plot



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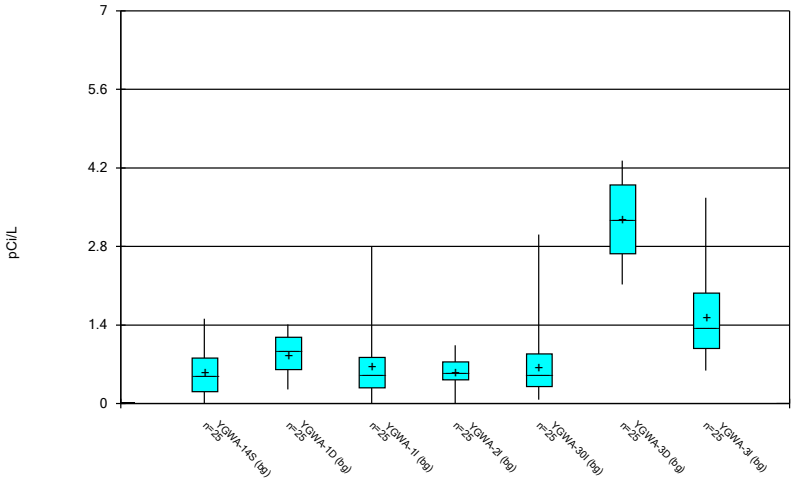

Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 9:50 AM
Plant Yates Data: Yates Ash Pond 2

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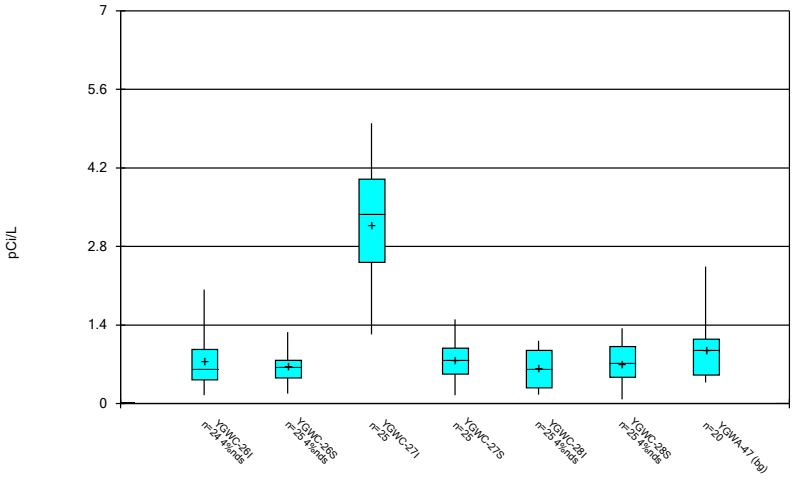
Box & Whiskers Plot



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Plant Yates Data: Yates Ash Pond 2

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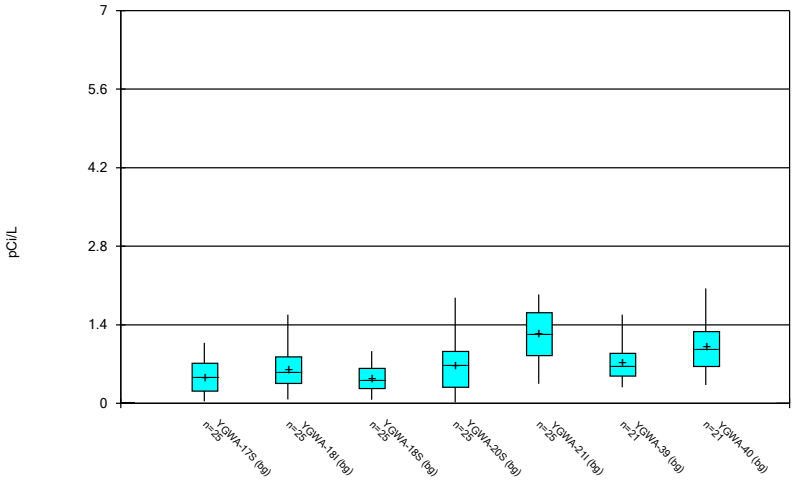
Box & Whiskers Plot



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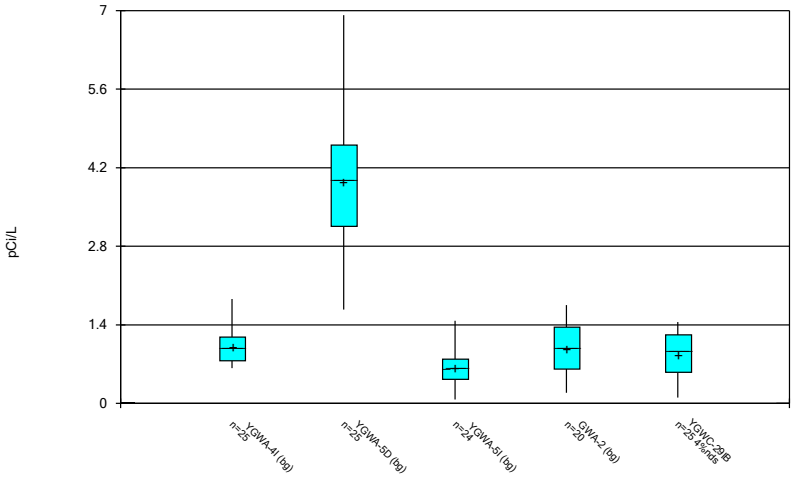
Box & Whiskers Plot



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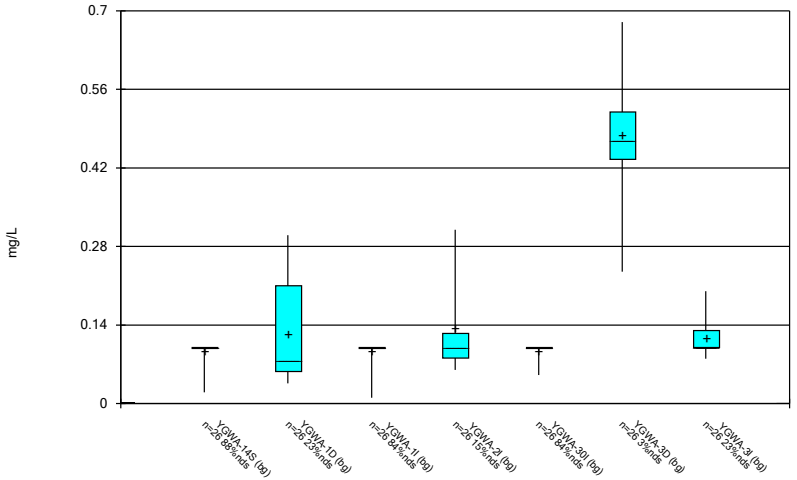

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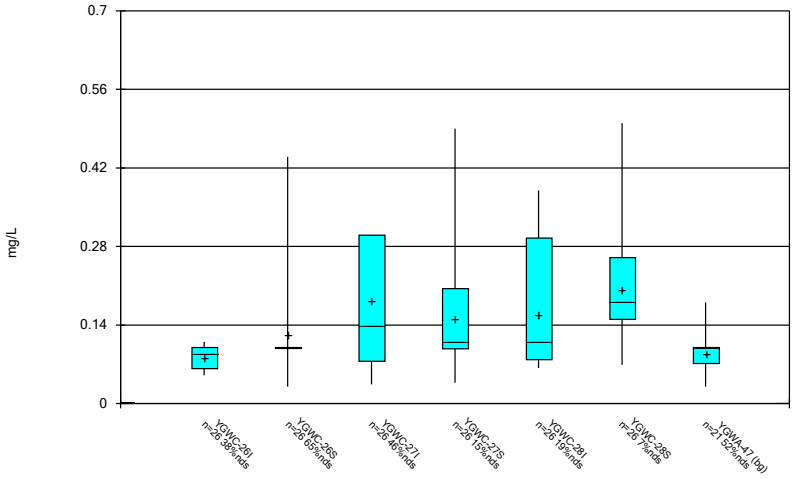
Box & Whiskers Plot



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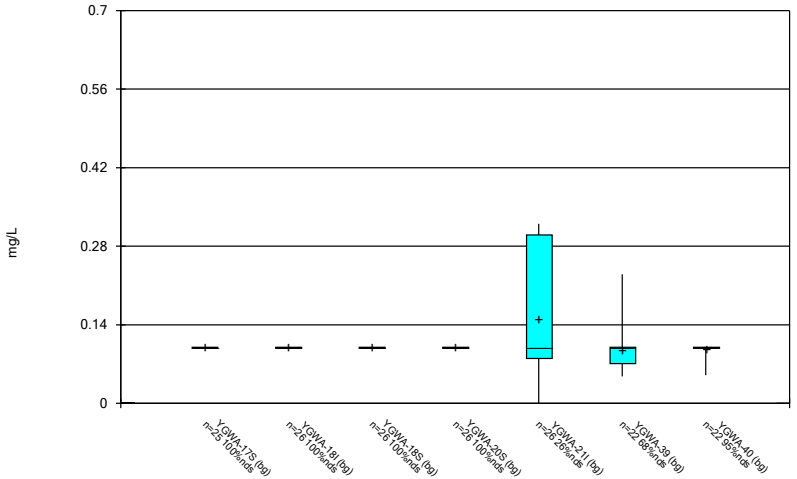

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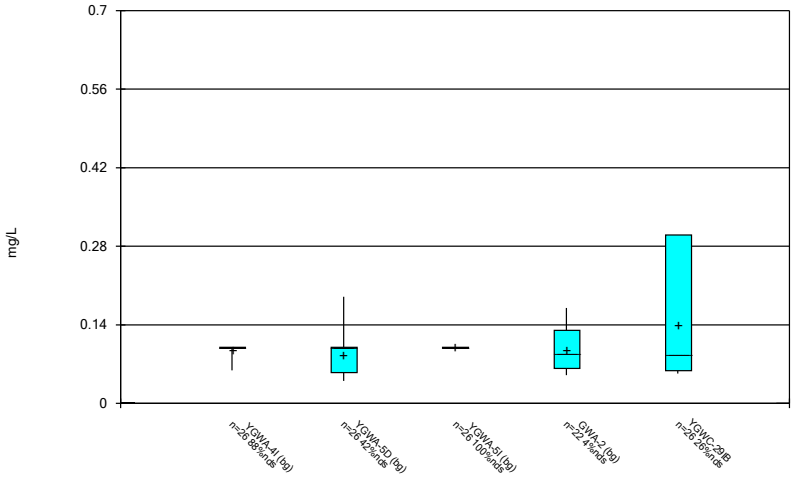

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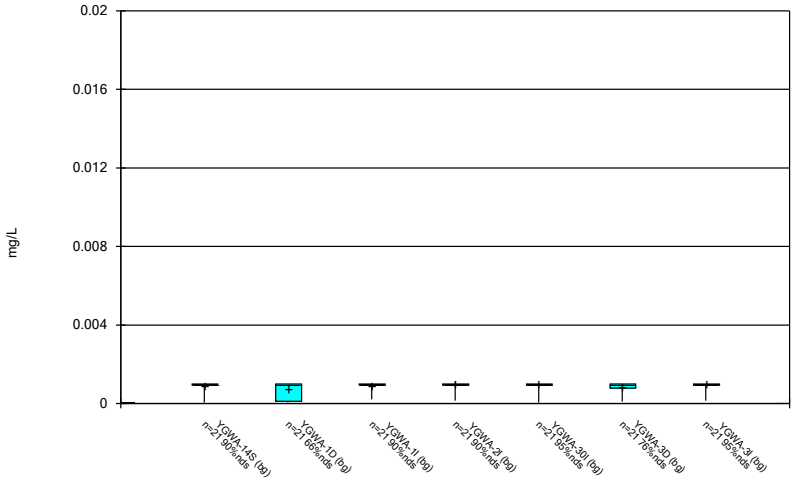

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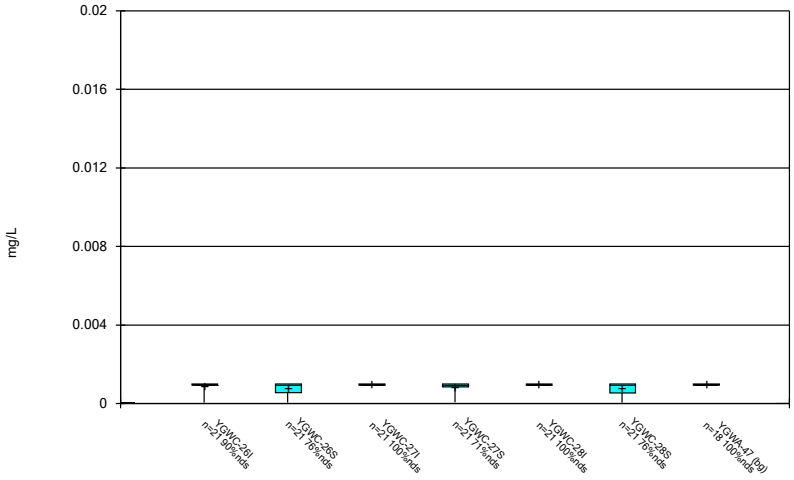
Box & Whiskers Plot



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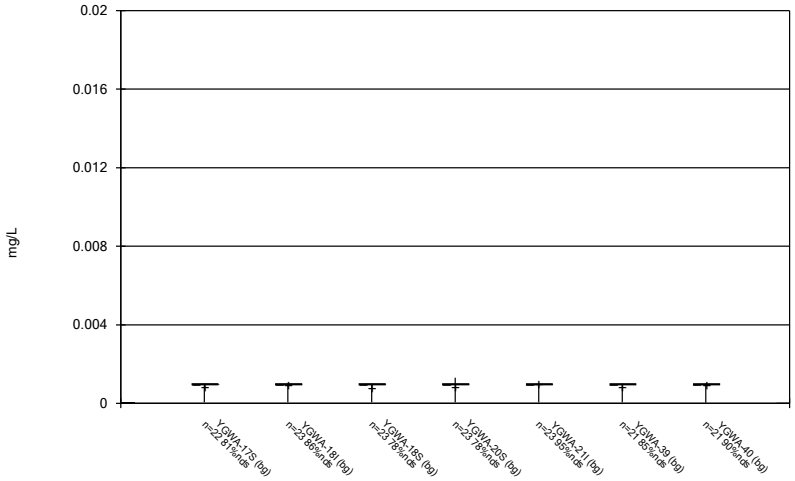
Box & Whiskers Plot



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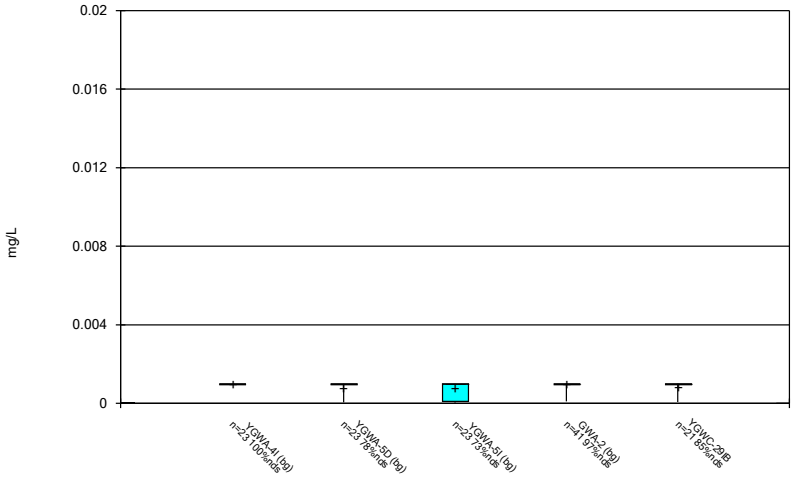
Box & Whiskers Plot



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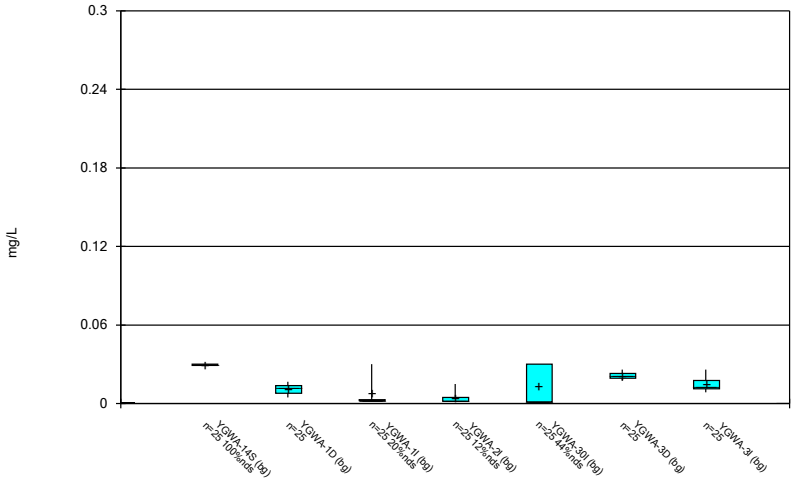

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Plant Yates Data: Yates Ash Pond 2

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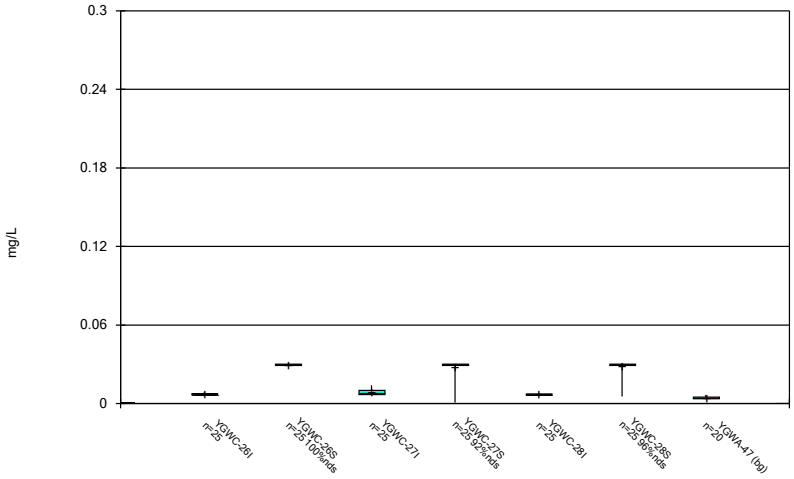
Box & Whiskers Plot



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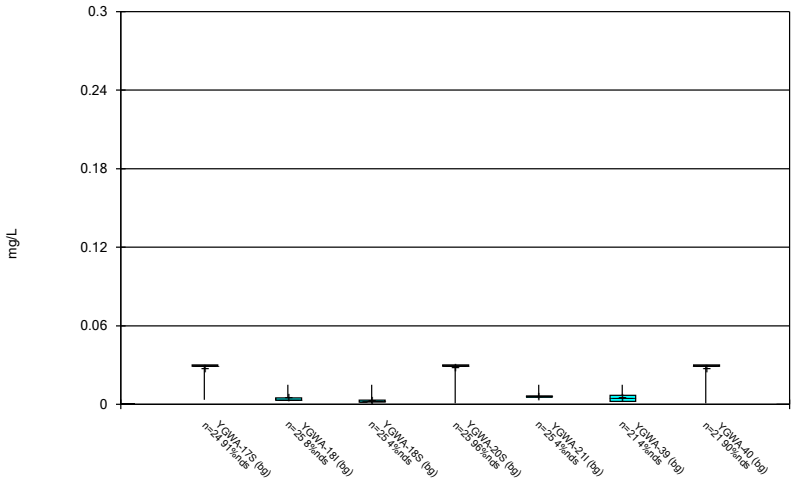

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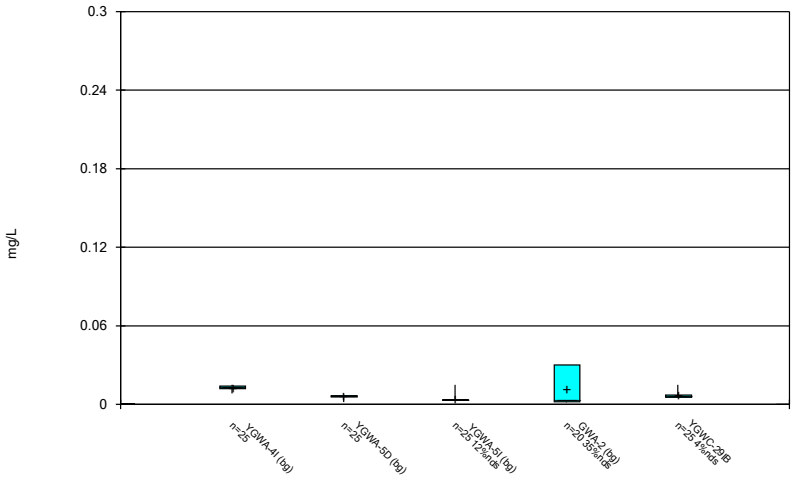
Box & Whiskers Plot



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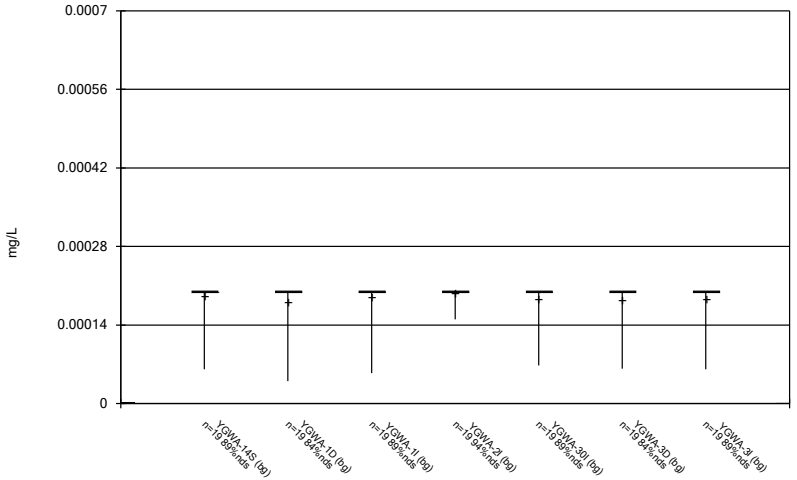

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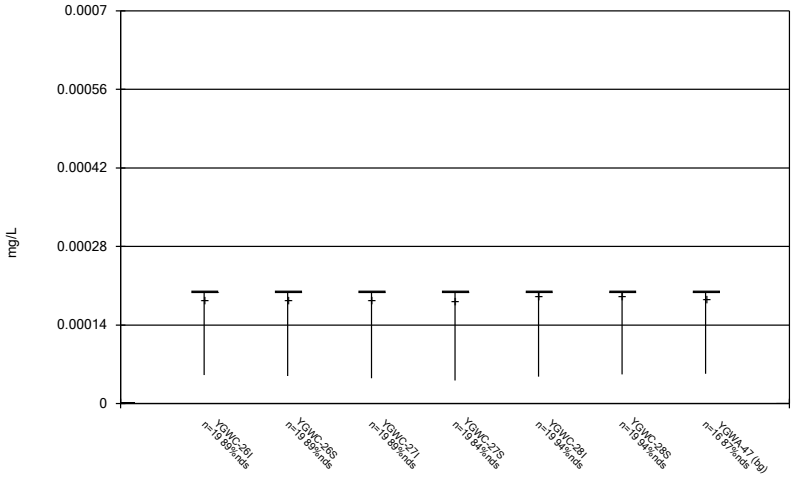
Box & Whiskers Plot



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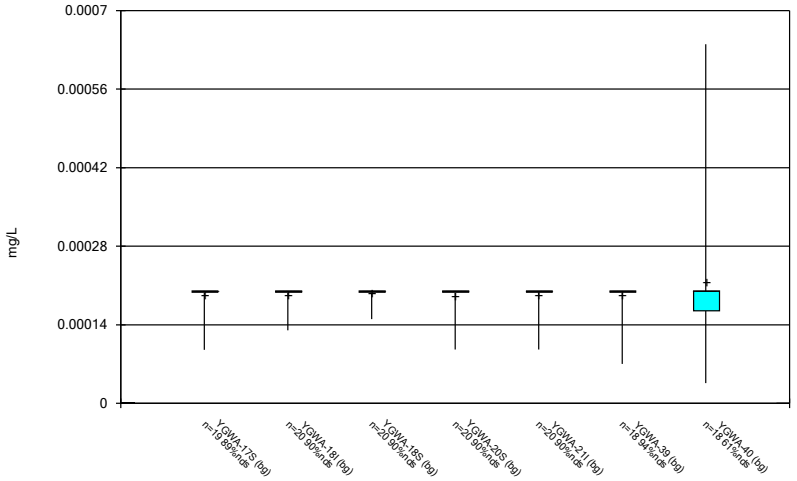

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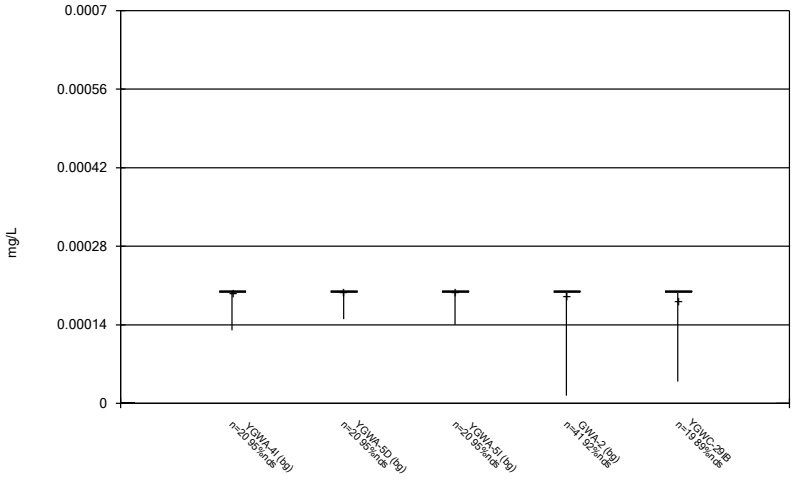
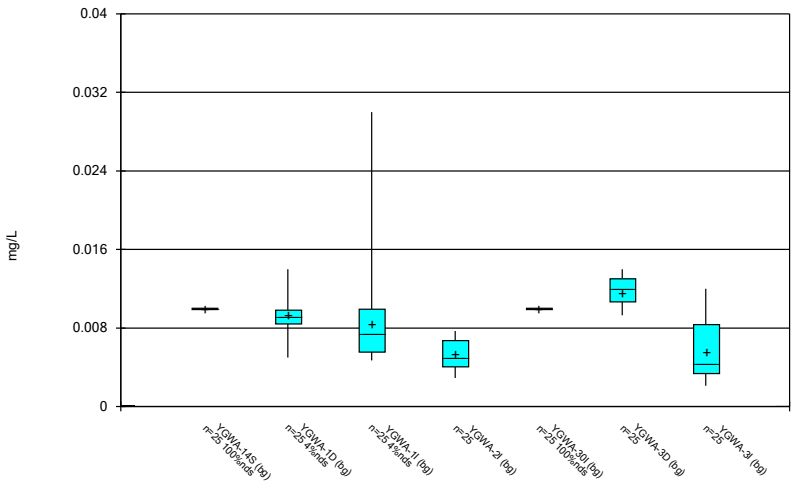
Box & Whiskers Plot



Constituent: Mercury Analysis Run 5/2/2024 9:51 AM
Plant Yates Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

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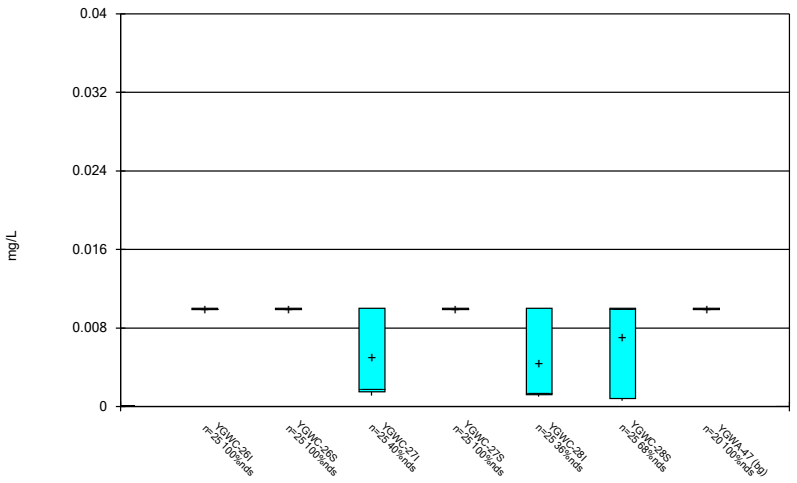
Box & Whiskers Plot



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Plant Yates Data: Yates Ash Pond 2

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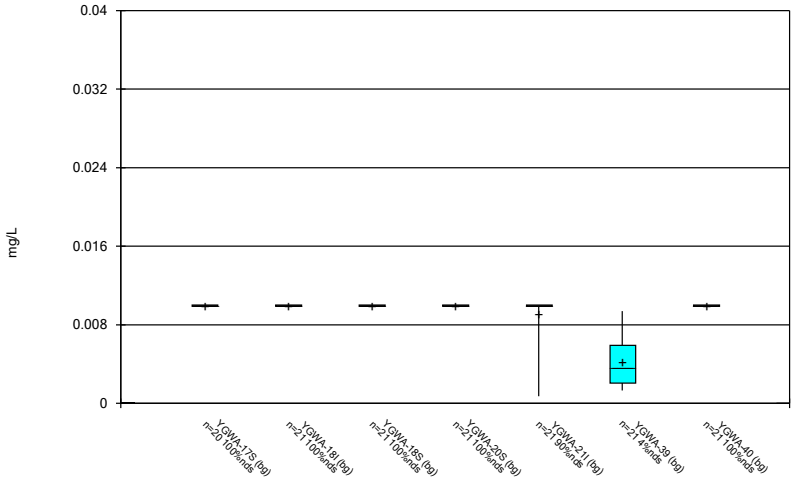
Box & Whiskers Plot



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Plant Yates Data: Yates Ash Pond 2

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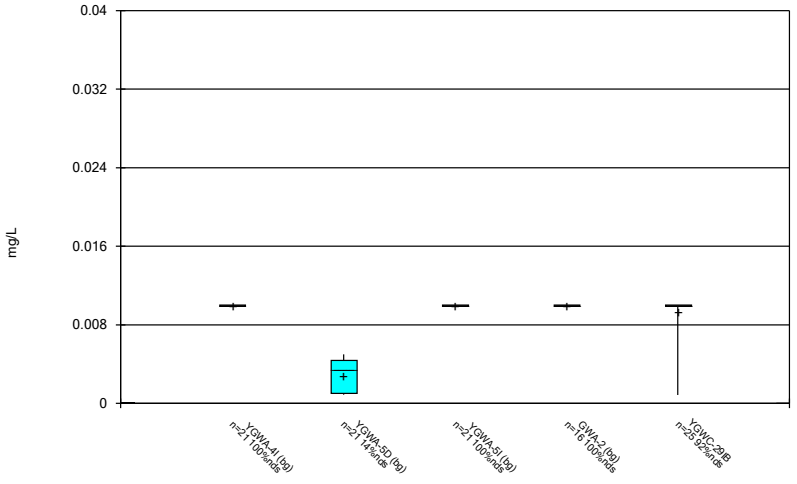

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Plant Yates Data: Yates Ash Pond 2

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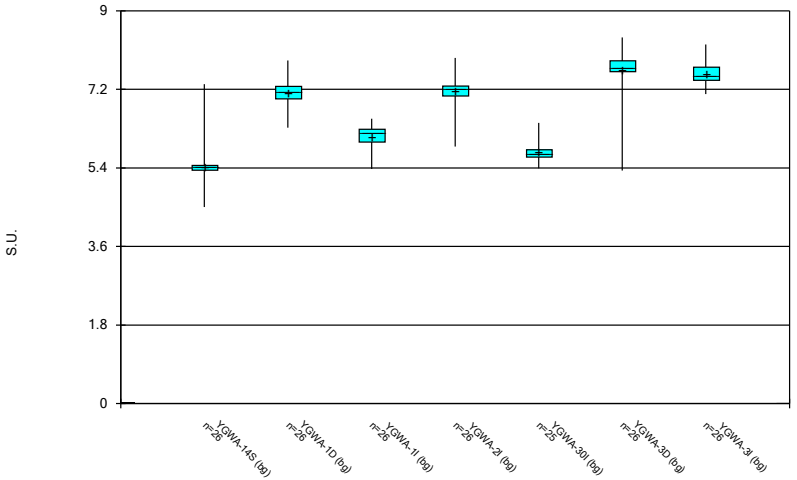

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Plant Yates Data: Yates Ash Pond 2

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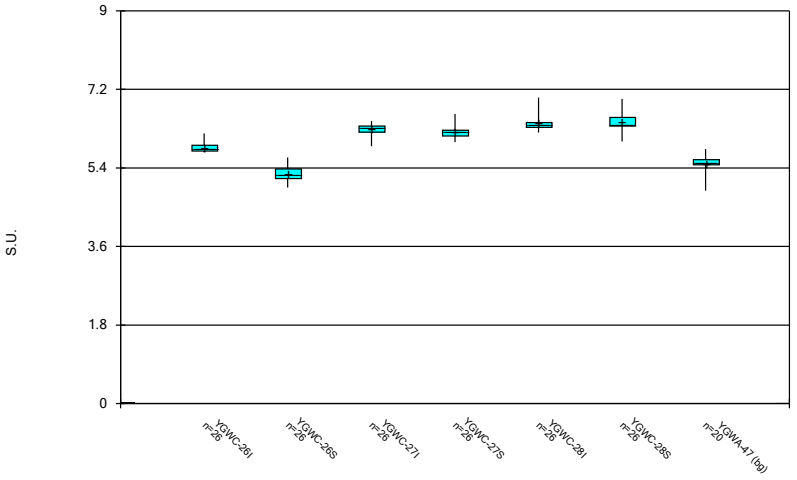
Box & Whiskers Plot



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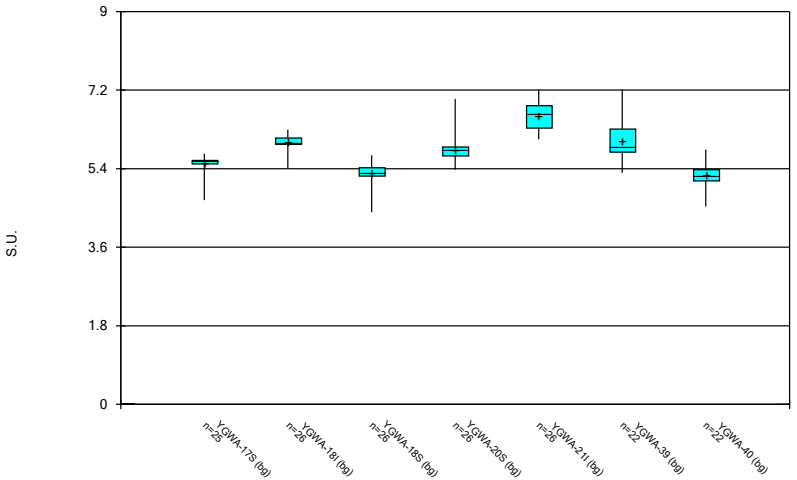
Box & Whiskers Plot



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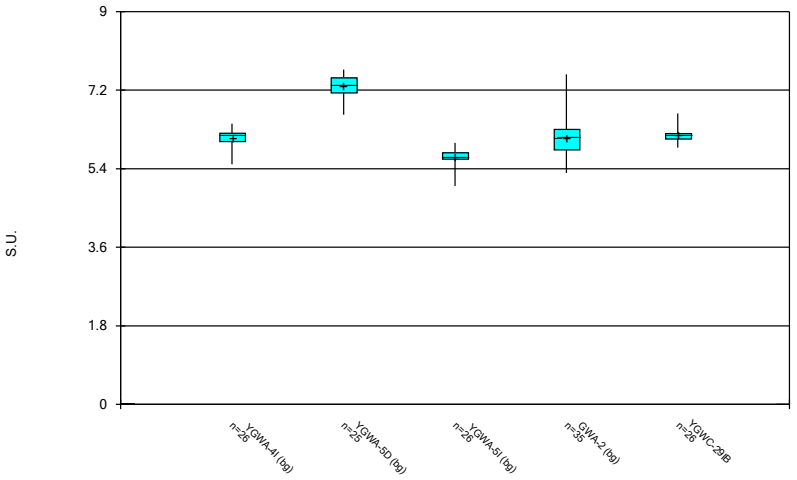

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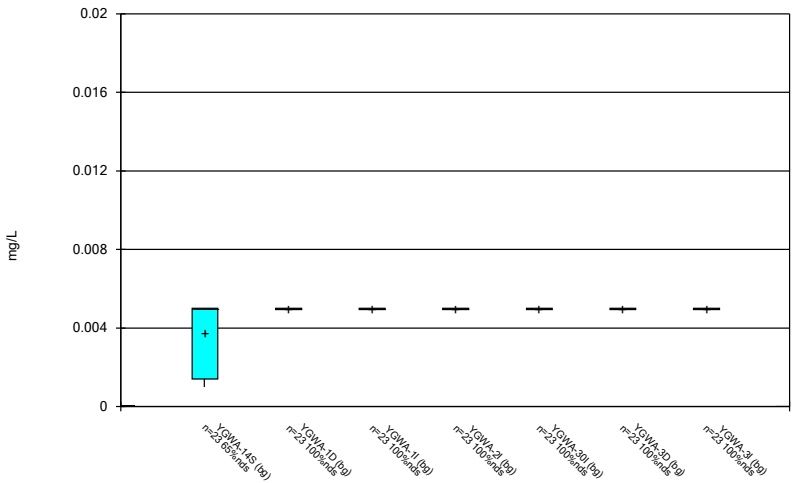
Box & Whiskers Plot



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Plant Yates Data: Yates Ash Pond 2

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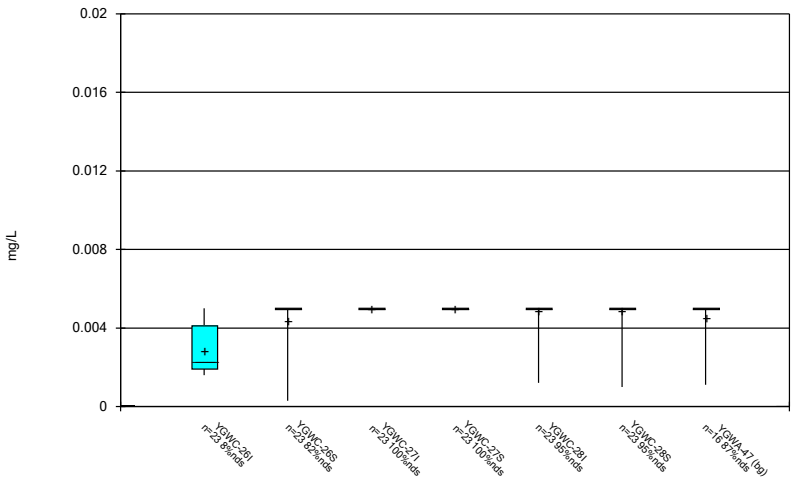
Box & Whiskers Plot



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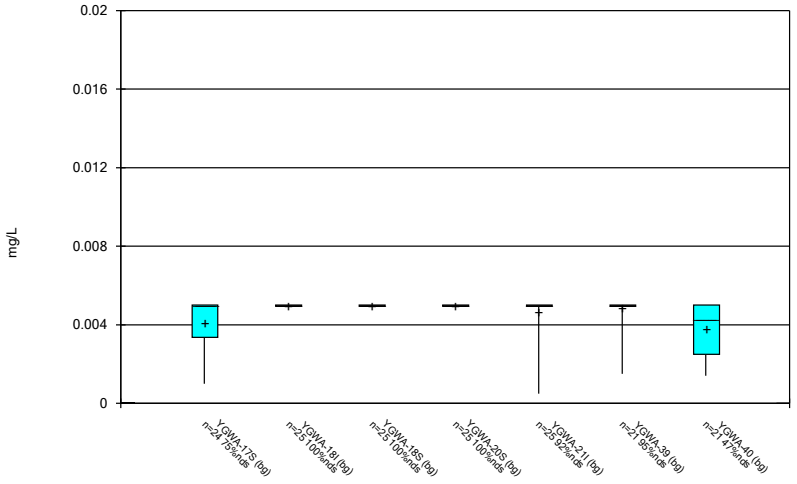
Box & Whiskers Plot



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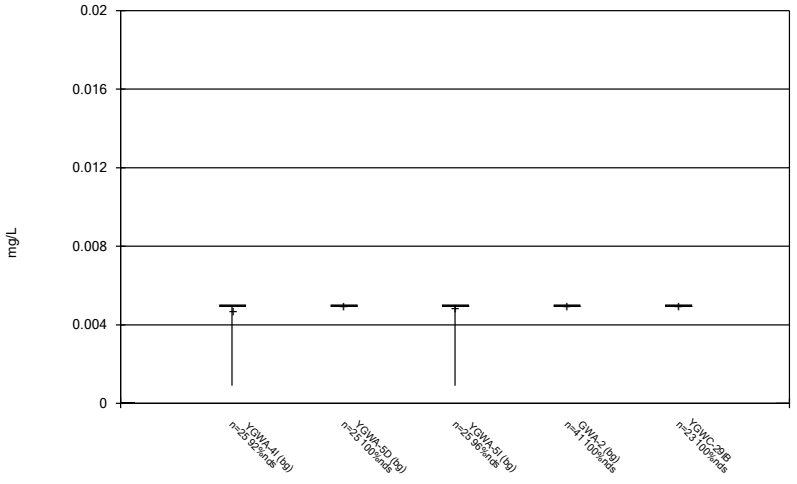
Box & Whiskers Plot



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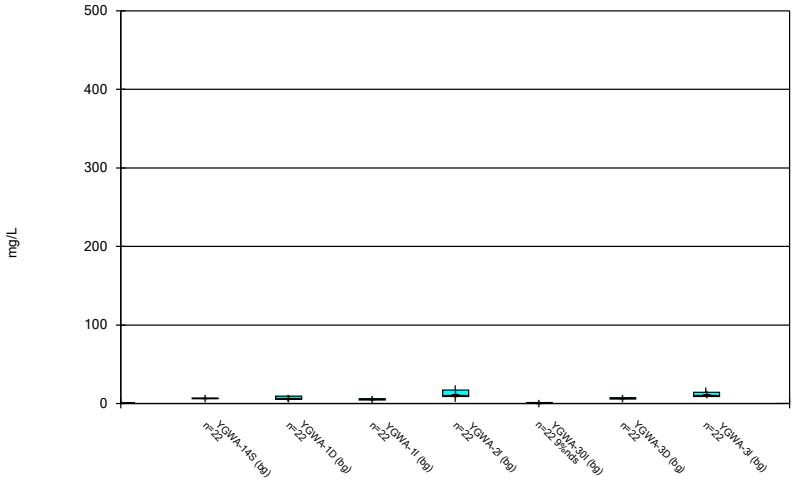

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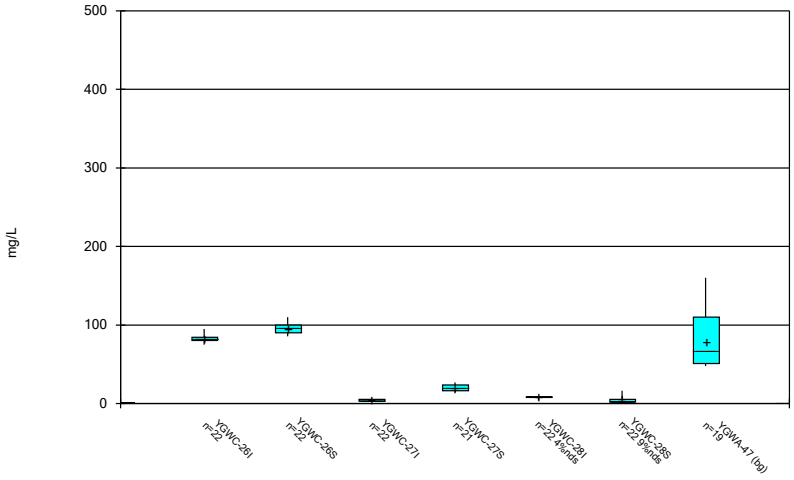
Box & Whiskers Plot



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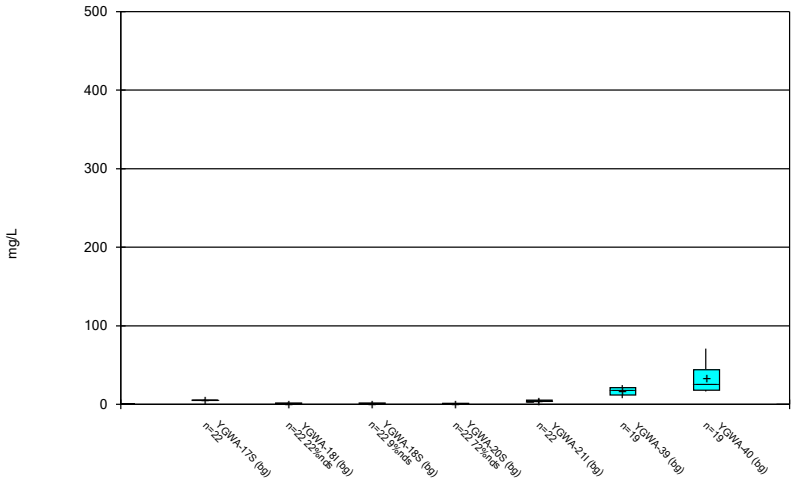

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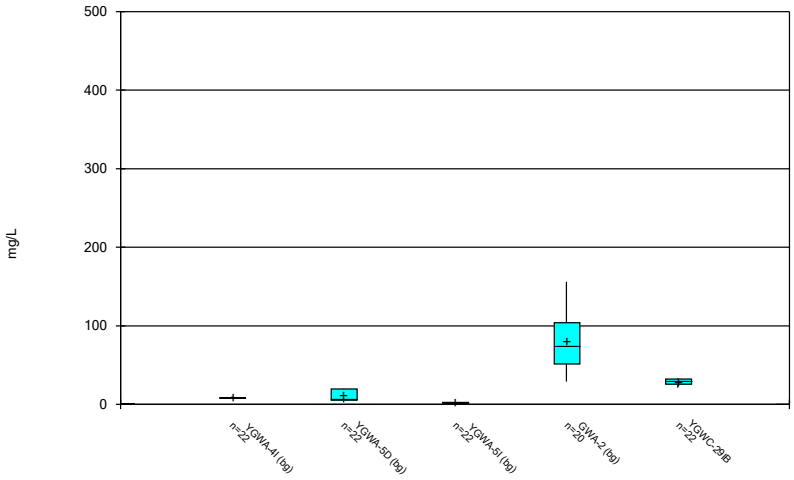

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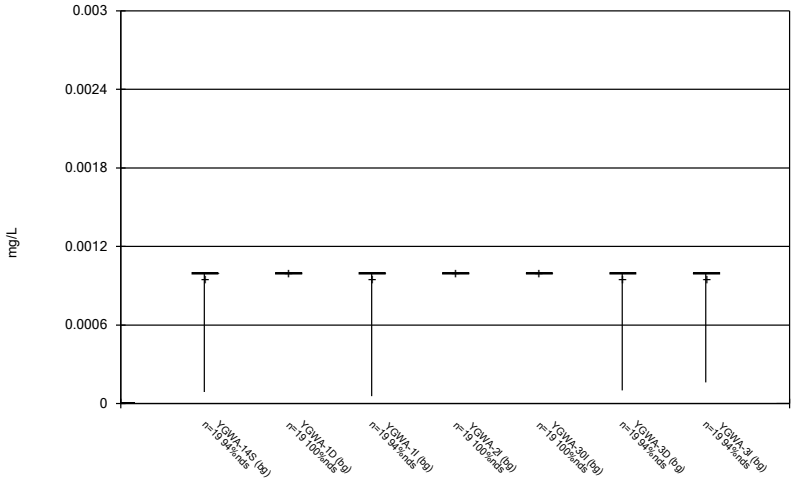
Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/2/2024 9:51 AM
Plant Yates Data: Yates Ash Pond 2

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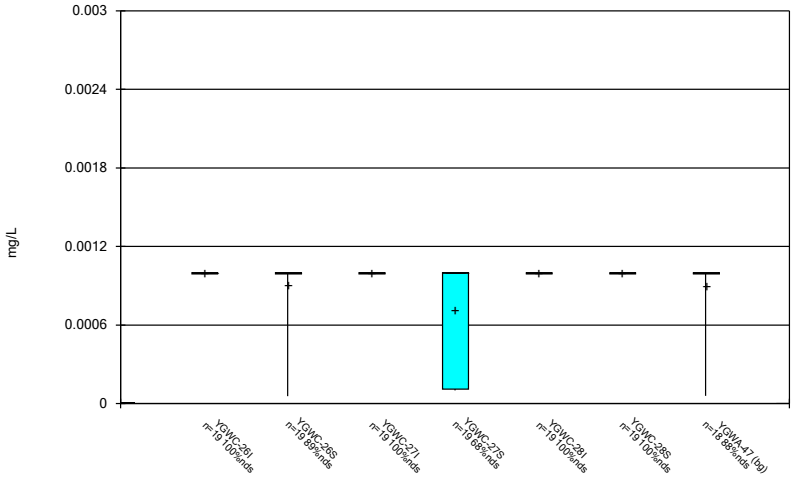
Box & Whiskers Plot



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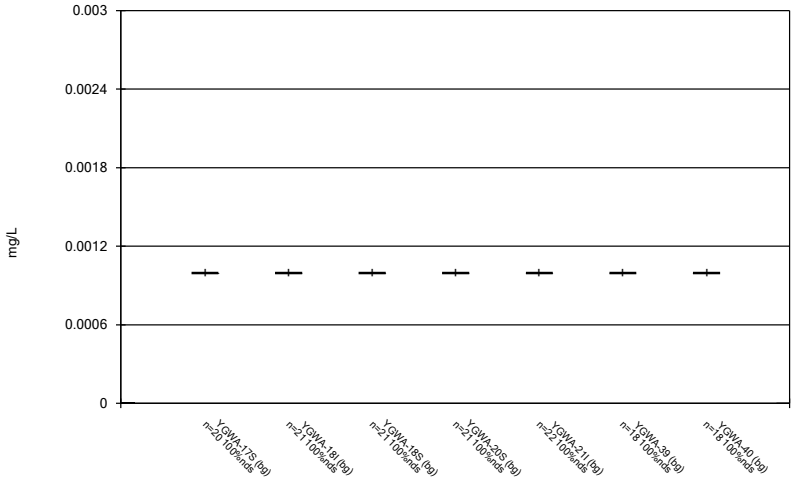
Box & Whiskers Plot



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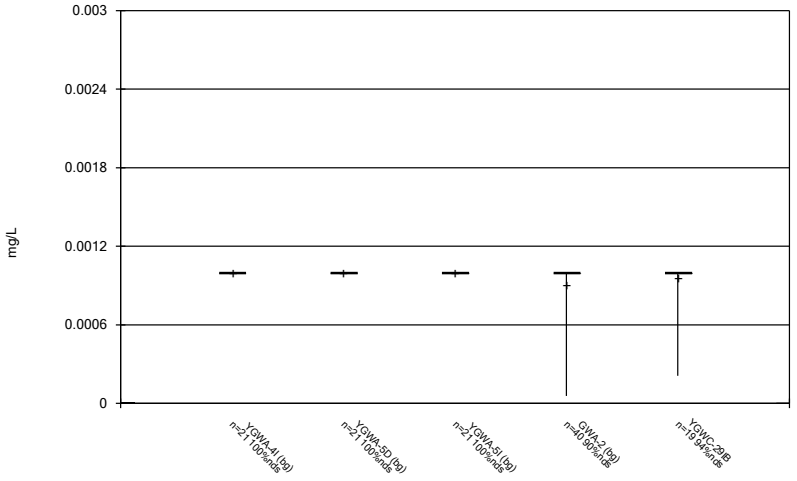
Box & Whiskers Plot



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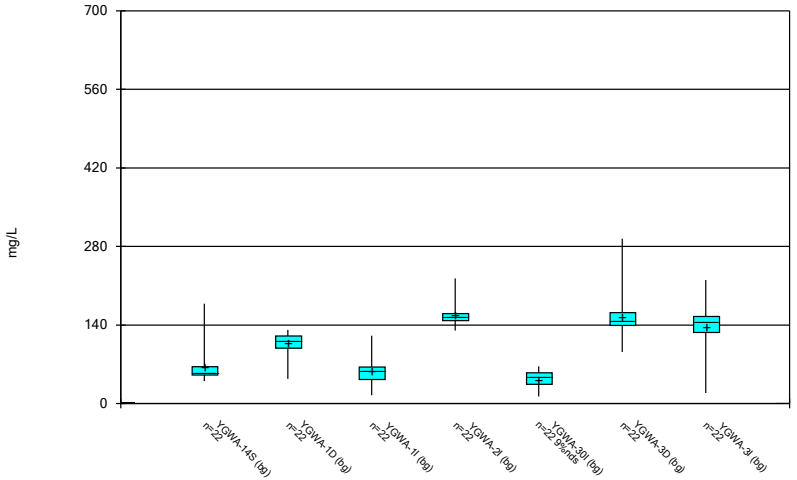
Plant Yates Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

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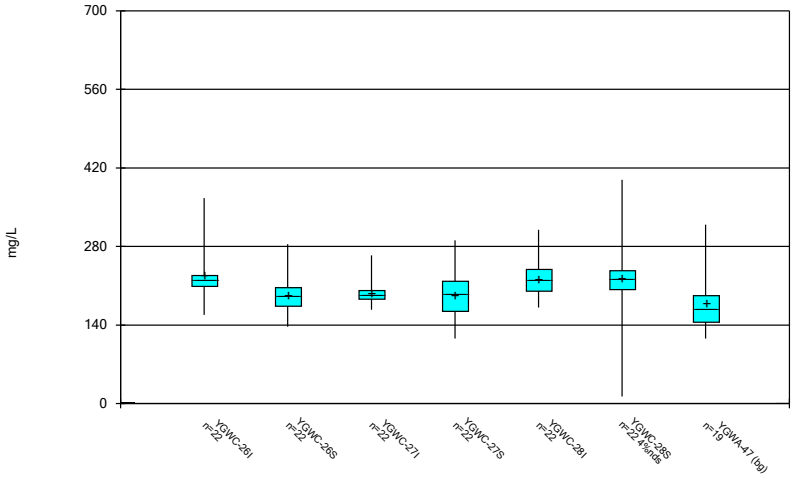
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

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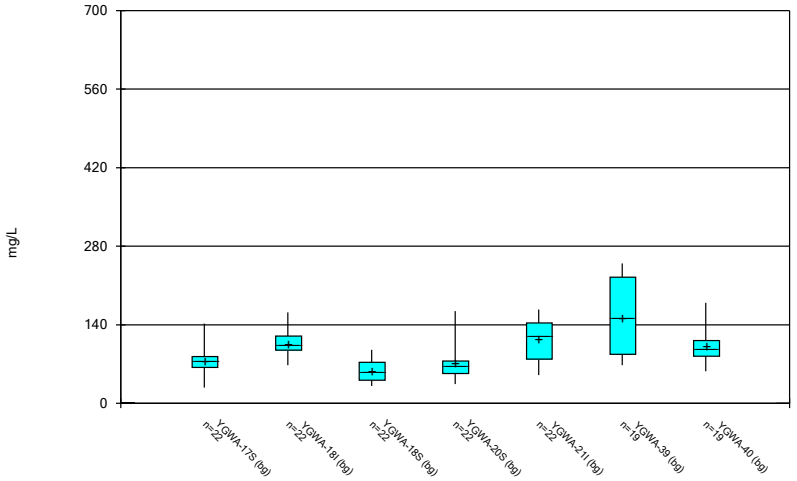
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

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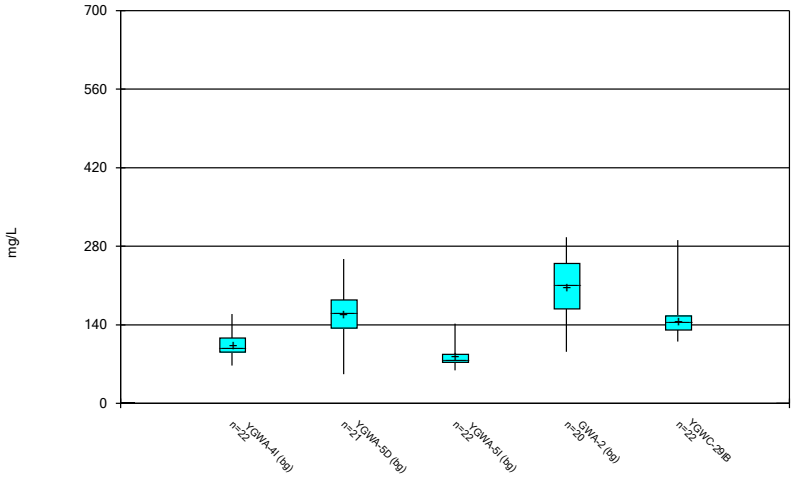
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:51 AM

Plant Yates Data: Yates Ash Pond 2

FIGURE C.

Outlier Summary

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:52 AM

	GWA-2 Cobalt (mg/L)	YGWC-26i Combined Radium 226 + 228 (pCi/L)	YGWA-47 pH (S.U.)	YGWC-27S Sulfate (mg/L)	YGWA-5D Total Dissolved Solids (mg/L)
6/8/2016		6.68 (o)			
4/2/2018			6.3 (o)		
8/26/2020	0.2 (O)				
9/22/2020	0.16 (O)				
3/2/2021	0.21 (O)				
3/3/2021				451 (o)	
8/20/2021	0.074 (O)				
2/8/2022	0.072 (O)				
8/30/2022	0.075 (O)				
2/20/2024					639 (o)

FIGURE D.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:57 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.16	n/a	2/22/2024	0.77	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	2/22/2024	0.78	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	2/21/2024	1.8	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	2/21/2024	0.91	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	2/21/2024	1.6	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	2/21/2024	2.3	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-29IB	0.16	n/a	2/22/2024	1.1	Yes	407	n/a	n/a	51.35	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Chloride (mg/L)	YGWC-26I	12.2	n/a	2/22/2024	16	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	12.2	n/a	2/22/2024	14.9	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	12.2	n/a	2/21/2024	12.5	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	12.2	n/a	2/21/2024	12.6	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	12.2	n/a	2/21/2024	17.5	Yes	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Appendix III Interwell Prediction Limits - All Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:57 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**0.16**	**n/a**	**2/22/2024**	**0.77**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**2/22/2024**	**0.78**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**2/21/2024**	**1.8**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**2/21/2024**	**0.91**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**2/21/2024**	**1.6**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**2/21/2024**	**2.3**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**2/22/2024**	**1.1**	**Yes**	**407**	**n/a**	**n/a**	**51.35**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	2/22/2024	16.7	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	2/22/2024	11	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	2/21/2024	27.7	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	2/21/2024	20.4	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	2/21/2024	27.8	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	2/21/2024	31	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29IB	37	n/a	2/22/2024	11.5	No	407	n/a	n/a	0.7371	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**12.2**	**n/a**	**2/22/2024**	**16**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.2**	**n/a**	**2/22/2024**	**14.9**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27I**	**12.2**	**n/a**	**2/21/2024**	**12.5**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**12.2**	**n/a**	**2/21/2024**	**12.6**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-28I	12.2	n/a	2/21/2024	10.4	No	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-28S**	**12.2**	**n/a**	**2/21/2024**	**17.5**	**Yes**	**407**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29IB	12.2	n/a	2/22/2024	10.5	No	407	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	2/22/2024	0.057J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	2/22/2024	0.1ND	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	2/21/2024	0.082J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	2/21/2024	0.11	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	2/21/2024	0.096J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	2/21/2024	0.15	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29IB	0.68	n/a	2/22/2024	0.075J	No	476	n/a	n/a	63.45	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	2/22/2024	5.92	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	2/22/2024	5.58	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	2/21/2024	6.43	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	2/21/2024	6.26	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	2/21/2024	6.43	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	2/21/2024	6.49	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29IB	8.39	4.4	2/22/2024	6.01	No	486	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	2/22/2024	80.7	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	2/22/2024	89.3	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	2/21/2024	3.8	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	2/21/2024	13	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	2/21/2024	8.5	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	2/21/2024	3.9	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29IB	160	n/a	2/22/2024	26.9	No	407	n/a	n/a	6.143	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	319	n/a	2/22/2024	215	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	319	n/a	2/22/2024	188	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	319	n/a	2/21/2024	194	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	319	n/a	2/21/2024	149	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	319	n/a	2/21/2024	213	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	319	n/a	2/21/2024	235	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29IB	319	n/a	2/22/2024	146	No	406	n/a	n/a	0.4926	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

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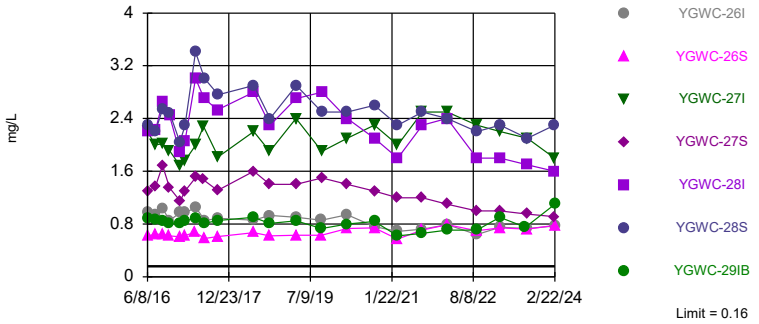
Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 407 background values. 51.35% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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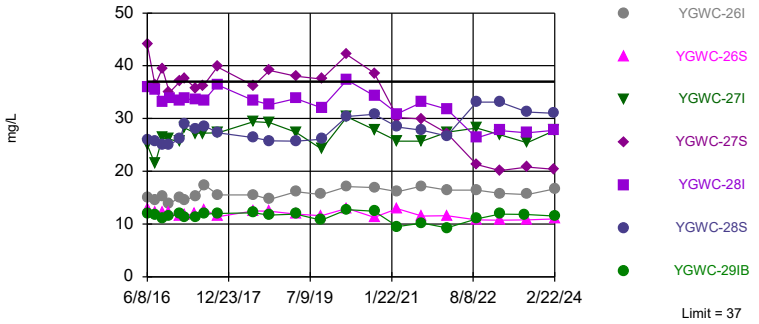
Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 407 background values. 0.7371% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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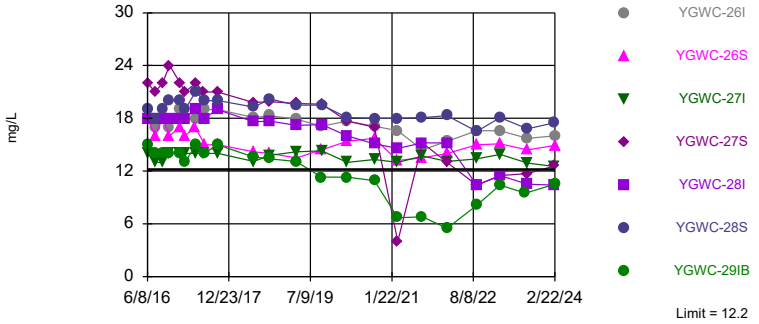
Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 407 background values. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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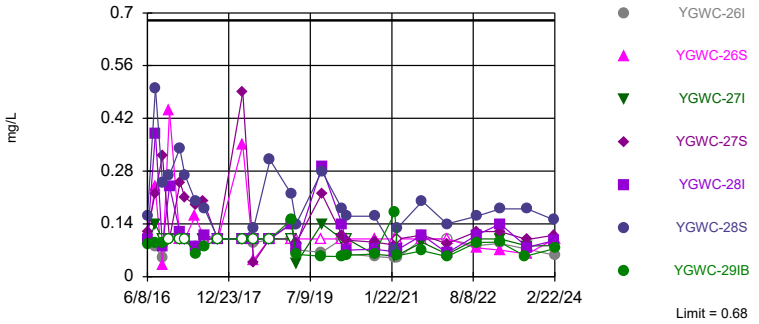
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 476 background values. 63.45% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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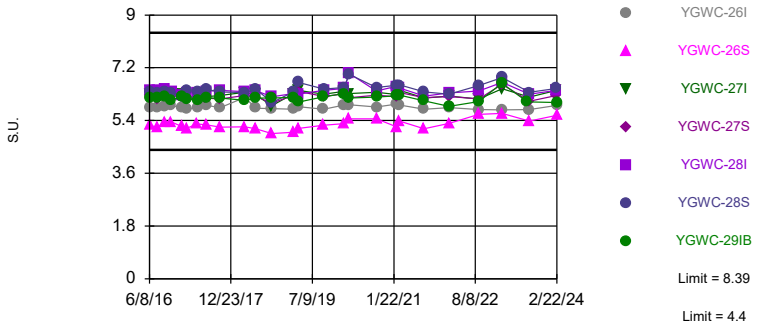
Within Limits

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 486 background values. Annual per-constituent alpha = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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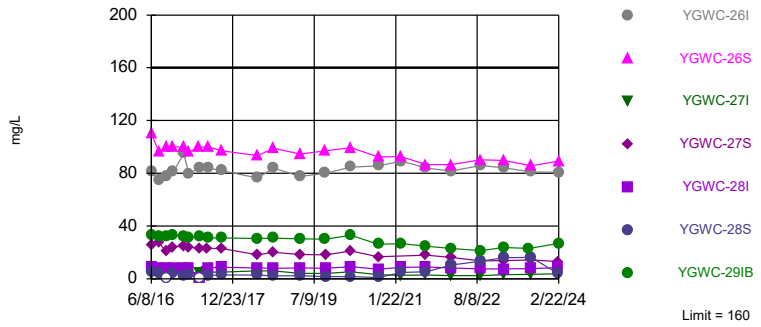
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 407 background values. 6.143% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

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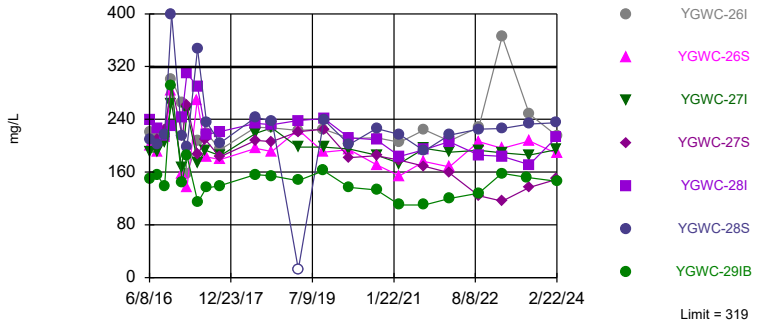
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 406 background values. 0.4926% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/2/2024 9:53 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	<0.04	<0.04				<0.04			
7/26/2016			0.0055 (J)	0.0177 (J)	0.0047 (J)		<0.04	0.0097 (J)	0.0052 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	<0.04		<0.04						
9/14/2016		<0.04			<0.04		0.01 (J)		0.0071 (J)
9/15/2016				0.0214 (J)				0.0102 (J)	
9/16/2016									
9/19/2016						<0.04			
9/20/2016									
9/21/2016									
11/1/2016		<0.04	0.0086 (J)			<0.04		<0.04	
11/2/2016				<0.04	<0.04				<0.04
11/3/2016									
11/4/2016	<0.04						<0.04		
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				0.0198 (J)					
1/11/2017		<0.04	0.0074 (J)					<0.04	
1/12/2017							<0.04		0.0076 (J)
1/13/2017					<0.04				
1/16/2017	<0.04					<0.04			
1/18/2017									
1/19/2017									
2/21/2017						<0.04			
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		<0.04							
3/2/2017	<0.04		0.008 (J)					0.0084 (J)	
3/3/2017									
3/6/2017					<0.04				
3/7/2017							<0.04		0.0089 (J)
3/8/2017				0.0189 (J)					
4/26/2017		<0.04		0.0161 (J)		<0.04		<0.04	
4/27/2017	<0.04		0.0066 (J)						
4/28/2017									
5/1/2017					<0.04				0.0061 (J)
5/2/2017							<0.04		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	0.006 (J)		0.0087 (J)				<0.04		0.0079 (J)
6/28/2017		<0.04						<0.04	
6/29/2017					<0.04				
6/30/2017				0.0173 (J)		<0.04			
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	0.0071 (J)		0.0072 (J)				<0.04		0.0094 (J)
10/4/2017		<0.04				<0.04		<0.04	
10/5/2017				0.0173 (J)	<0.04				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			0.0052 (J)						
6/6/2018	<0.04								0.0098 (J)
6/7/2018					0.0045 (J)		<0.04	0.004 (J)	
6/8/2018		<0.04		0.013 (J)					
6/11/2018						0.014 (J)			
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.005 (J)		0.0057 (J)		0.01 (J)
10/1/2018	0.0049 (J)	<0.04	0.021 (J)	0.015 (J)				<0.04	
10/2/2018						<0.04			
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	<0.04		0.005 (J)						
3/29/2019				0.014 (J)					
4/1/2019		<0.04				<0.04		<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
4/2/2019									
4/3/2019					0.0055 (J)		0.0044 (J)		0.0076 (J)
6/12/2019									
9/24/2019	0.0055 (J)		0.0064 (J)				0.0049 (J)		0.01 (J)
9/25/2019		<0.04		0.018 (J)	<0.04	<0.04		0.0054 (J)	
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	0.0087 (J)			0.02 (J)					
3/19/2020		0.0053 (J)	0.0085 (J)			0.0052 (J)		0.0073 (J)	
3/20/2020									
3/24/2020							0.0068 (J)		0.011 (J)
3/25/2020					0.011 (J)				
9/22/2020					<0.04		0.0053 (J)		0.0079 (J)
9/23/2020	<0.04	0.0073 (J)	<0.04					0.012 (J)	
9/24/2020						0.0075 (J)			
9/25/2020				0.02 (J)					
3/1/2021						<0.04			
3/2/2021				0.017 (J)			0.011 (J)		0.0068 (J)
3/3/2021	<0.04	<0.04	<0.04		0.0056 (J)			<0.04	
3/4/2021									
8/19/2021	<0.04		<0.04	0.018 (J)		<0.04		<0.04	
8/20/2021									
8/26/2021					<0.04		<0.04		0.009 (J)
8/27/2021		<0.04							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	<0.04	<0.04	<0.04					0.01 (J)	
2/10/2022				0.02 (J)			<0.04		0.011 (J)
2/11/2022					<0.04	<0.04			
8/30/2022			<0.04				<0.04		0.0098 (J)
8/31/2022	<0.04	<0.04		0.015 (J)	<0.04	<0.04		<0.04	
9/1/2022									
2/7/2023	<0.04		<0.04						<0.04
2/8/2023		<0.04		0.015 (J)		<0.04		<0.04	
2/9/2023					<0.04		<0.04		
8/2/2023									
8/15/2023	0.0094 (J)		<0.04	0.017 (J)	<0.04		<0.04	<0.04	<0.04
8/16/2023		<0.04				<0.04			
8/17/2023									
2/20/2024	0.014 (J)	<0.04	0.015 (J)		<0.04	<0.04	<0.04	<0.04	<0.04
2/21/2024									
2/22/2024									
2/23/2024				0.037 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
6/8/2016						0.62	2.2	0.97	1.3
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.04	0.0059 (J)	0.008 (J)		<0.04				
7/28/2016				<0.04					
8/1/2016						0.643	2	0.932	1.36
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		0.0079 (J)	0.0086 (J)						
9/19/2016	<0.04			<0.04	<0.04				
9/20/2016						0.644	2.02	1.04	1.69
9/21/2016									
11/1/2016									
11/2/2016					<0.04				
11/3/2016	<0.04	0.0082 (J)	0.0077 (J)	<0.04					
11/4/2016									
11/7/2016						0.621	1.91	0.852	1.35
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.04	0.0096 (J)	0.0092 (J)						
1/12/2017									
1/13/2017				<0.04	<0.04				
1/16/2017									
1/18/2017						0.607	1.69	0.972	
1/19/2017									1.15
2/21/2017						0.624		0.972	
2/22/2017									1.3
2/23/2017							1.76		
2/24/2017									
3/1/2017	<0.04	<0.04							
3/2/2017			0.0095 (J)						
3/3/2017									
3/6/2017				<0.04	<0.04				
3/7/2017									
3/8/2017									
4/26/2017	<0.04	0.0091 (J)		<0.04	<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.04						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
5/3/2017						0.676			
5/5/2017									
5/8/2017							2	1.05	1.51
5/26/2017									
6/27/2017									
6/28/2017	<0.04	0.0079 (J)							
6/29/2017			0.0074 (J)	<0.04	<0.04				
6/30/2017							2.28		1.47
7/5/2017									
7/7/2017									
7/10/2017						0.58		0.855	
7/11/2017									
7/17/2017									
10/3/2017				<0.04					
10/4/2017		0.009 (J)	0.0077 (J)		<0.04				
10/5/2017	<0.04								
10/6/2017									1.31
10/9/2017							1.82		
10/10/2017						0.612		0.887	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				0.0092 (J)					
6/6/2018					0.0049 (J)				
6/7/2018	<0.04								
6/8/2018									
6/11/2018		0.0093 (J)	0.01 (J)						
6/12/2018									1.6
6/13/2018						0.67	2.2	0.86	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	0.0046 (J)	0.007 (J)	0.0096 (J)	0.0054 (J)	<0.04				
9/26/2018									
10/1/2018									
10/2/2018						0.62	1.9	0.93	1.4
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							2.4		1.4

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
4/2/2019			0.0066 (J)	0.011 (J)		0.63		0.9	
4/3/2019	<0.04	0.0053 (J)			<0.04				
6/12/2019									
9/24/2019				0.018 (J)					
9/25/2019			0.0081 (J)		<0.04	0.63		0.86	
9/26/2019	0.0062 (J)	0.0072 (J)					1.9		1.5
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						0.73			
3/20/2020							2.1	0.94	1.4
3/24/2020	0.0054 (J)	0.01 (J)	0.0092 (J)	0.016 (J)	<0.04				
3/25/2020									
9/22/2020									
9/23/2020	0.021 (J)	0.006 (J)	0.0066 (J)						
9/24/2020				0.013 (J)	0.0094 (J)	0.74	2.3	0.76	1.3
9/25/2020									
3/1/2021									
3/2/2021						0.57			
3/3/2021	<0.04	0.0094 (J)	0.01 (J)		<0.04		2	0.69	1.2
3/4/2021				0.0079 (J)					
8/19/2021						0.71			
8/20/2021							2.5	0.72	1.2
8/26/2021		<0.04							
8/27/2021	<0.04		0.011 (J)		<0.04				
9/1/2021				<0.04					
9/3/2021									
2/8/2022									1.1
2/9/2022	<0.04	<0.04	0.0098 (J)	<0.04	<0.04				
2/10/2022						0.79	2.5	0.79	
2/11/2022									
8/30/2022	<0.04	0.014 (J)	0.013 (J)	0.012 (J)					
8/31/2022					<0.04	0.7		0.64	
9/1/2022							2.3		1
2/7/2023	<0.04	<0.04	0.014 (J)	<0.04	<0.04				
2/8/2023									
2/9/2023						0.74	2.2	0.75	1
8/2/2023									
8/15/2023	<0.04	<0.04	<0.04	0.046 (J)	<0.04				
8/16/2023									
8/17/2023						0.72	2.1	0.73	0.95
2/20/2024	<0.04		<0.04	<0.04	<0.04				
2/21/2024							1.8		0.91
2/22/2024						0.78		0.77	
2/23/2024		0.018 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	2.2	2.3	0.88					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	2.22	2.21	0.872					
8/30/2016				0.0166 (J)				
8/31/2016					0.0315 (J)			
9/13/2016								
9/14/2016						<0.04		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	2.65	2.54	0.853					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.04		
11/7/2016		2.49	0.815					
11/8/2016	2.44							
11/14/2016				0.0166 (J)				
11/28/2016					0.0095 (J)			
12/15/2016						0.0107 (J)		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						<0.04		
1/18/2017	1.88	2.04						
1/19/2017			0.803					
2/21/2017		2.29						
2/22/2017	2.05		0.855		<0.04			
2/23/2017								
2/24/2017				0.0145 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.04		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						<0.04		
5/1/2017								
5/2/2017								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	3.01	3.41						
5/8/2017			0.884	0.0141 (J)	0.0084 (J)			
5/26/2017						<0.04		
6/27/2017								
6/28/2017						<0.04		
6/29/2017								
6/30/2017								
7/5/2017	2.7		0.811					
7/7/2017		3.01						
7/10/2017								
7/11/2017				0.0131 (J)				
7/17/2017					0.0092 (J)			
10/3/2017						<0.04		
10/4/2017								
10/5/2017	2.53		0.851					
10/6/2017								
10/9/2017		2.76						
10/10/2017				0.0124 (J)				
10/11/2017							0.0135 (J)	
10/12/2017								0.0401
10/16/2017					<0.04			
11/20/2017							0.0251 (J)	0.156
1/10/2018								0.15
1/11/2018							0.0255 (J)	
2/19/2018					<0.04			0.146
2/20/2018							<0.04	
4/2/2018				0.013 (J)				
4/3/2018							0.033 (J)	0.12
6/5/2018								
6/6/2018								
6/7/2018						<0.04		
6/8/2018								
6/11/2018			0.9					
6/12/2018	2.8	2.9						
6/13/2018								
6/28/2018							0.053	0.16
8/6/2018					<0.04			
8/7/2018							0.024 (J)	0.12
9/19/2018				0.012 (J)				
9/24/2018							0.028 (J)	0.099
9/25/2018								
9/26/2018								
10/1/2018						<0.04		
10/2/2018			0.81					
10/3/2018	2.3	2.4						
2/25/2019					<0.04			
3/26/2019								0.096
3/27/2019				0.013 (J)			0.017 (J)	
3/28/2019								
3/29/2019						0.0065 (J)		
4/1/2019	2.7		0.85					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019		2.9						
4/3/2019								
6/12/2019					<0.04			
9/24/2019						0.0076 (J)		
9/25/2019			0.73					
9/26/2019	2.8	2.5						
10/8/2019				0.012 (J)	<0.04			
10/9/2019							0.017 (J)	0.079
3/17/2020				0.023 (J)	0.0051 (J)			
3/18/2020								
3/19/2020	2.4	2.5				0.0073 (J)		
3/20/2020			0.8					
3/24/2020								0.088 (J)
3/25/2020							0.043 (J)	
9/22/2020				0.0076 (J)	0.0079 (J)			
9/23/2020						<0.04		
9/24/2020	2.1	2.6	0.84				0.037 (J)	0.087 (J)
9/25/2020								
3/1/2021				0.013 (J)				
3/2/2021					<0.04			
3/3/2021	1.8	2.3	0.62			<0.04		
3/4/2021							0.033 (J)	0.078
8/19/2021				0.011 (J)				
8/20/2021	2.3	2.5	0.66		<0.04			
8/26/2021							0.095	
8/27/2021						<0.04		
9/1/2021								
9/3/2021								0.077
2/8/2022	2.4	2.4	0.71	0.015 (J)	<0.04		0.13	0.074
2/9/2022						<0.04		
2/10/2022								
2/11/2022								
8/30/2022					<0.04	<0.04		
8/31/2022				0.0091 (J)			0.14	0.062
9/1/2022	1.8	2.2	0.71					
2/7/2023					<0.04	<0.04	0.13	
2/8/2023			0.9	0.011 (J)				0.057
2/9/2023	1.8	2.3						
8/2/2023			0.75					
8/15/2023				<0.04	<0.04	<0.04	0.15 (J)	0.052 (J)
8/16/2023	1.7	2.1						
8/17/2023								
2/20/2024				0.023 (J)	0.017 (J)	<0.04	0.12	0.056
2/21/2024	1.6	2.3						
2/22/2024			1.1					
2/23/2024								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	2.5	21	12						
6/2/2016				1.3	8.8	1.3	2.4	28	33
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	2.16	20.3				1.17			
7/26/2016			11	1.24	7.69		2.12	24.5	32.3
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	2.21		11.8						
9/14/2016		19.7			8.49		2.18		31
9/15/2016				1.17				27	
9/16/2016									
9/19/2016						1.05			
9/20/2016									
9/21/2016									
11/1/2016		18.4	11			1.14		25.6	
11/2/2016				1.23	7.83				30.9
11/3/2016									
11/4/2016	2.67						2.17 (J)		
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				1.24					
1/11/2017		20.3	11.2					27.5	
1/12/2017							2.37		35.7
1/13/2017					8.08				
1/16/2017	2.45					1.23			
1/18/2017									
1/19/2017									
2/21/2017						1.25			
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		18.6							
3/2/2017	2.57		11					27.5	
3/3/2017									
3/6/2017					8.64				
3/7/2017							2.34		32.7
3/8/2017				1.21					
4/26/2017		25.6		1.14		1.03		30.4	
4/27/2017	2.38		11.1						
4/28/2017									
5/1/2017					13.4				37
5/2/2017							2.17		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	2.36		13.8				2.13		36.5
6/28/2017		23.9						29.8	
6/29/2017					8.81				
6/30/2017				1.24		1.13			
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	2.21		14				2.15		30.9
10/4/2017		22.1				1.09		29.7	
10/5/2017				1.11	9.29				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			15.2 (J)						
6/6/2018	2.3								26.2
6/7/2018					8.2		2.3	29.1	
6/8/2018		21.9 (J)		1.1					
6/11/2018						1.1			
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					9.5 (J)		2.3		25.8
10/1/2018	1.8	19.7	15.1	0.99				26.9	
10/2/2018						1.1			
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	2.2		13.3 (J)						
3/29/2019				1.1					
4/1/2019		20.4 (J)				1.3		30.1	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
4/2/2019									
4/3/2019					8.4		2.8		24.7 (J)
6/12/2019									
9/24/2019	2.3		15.8				2.5		25.8
9/25/2019		22.4		1.1	9.5	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		21.9	15			1.2		31.5	
3/20/2020									
3/24/2020							2.5		26.1
3/25/2020					10.5				
9/22/2020					9.6		2.6		27.2
9/23/2020	1.8	23.6	14.1					28.6	
9/24/2020						1.1			
9/25/2020				1.3					
3/1/2021						1.2			
3/2/2021				1.2			2.6		1.6
3/3/2021	1.8	20.6	14.1		7.7			29.8	
3/4/2021									
8/19/2021	2		14.2	1.2		1.2		28.1	
8/20/2021									
8/26/2021					7.6		2.5		25.2
8/27/2021		24.7							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	2.1	23.7	14.9					30.3	
2/10/2022				1.3			2.5		24.8
2/11/2022					7.5	1.5			
8/30/2022			14.9				2.5		24.8
8/31/2022	1.9	23.5		1.3	8.9	1.3		28.7	
9/1/2022									
2/7/2023	2.2		15						26.6
2/8/2023		23.3		1.5		1.3		28.9	
2/9/2023					9.6		2.8		
8/2/2023									
8/15/2023	1.8		13.5	1.3	7.8		2.6	27.4	25
8/16/2023		24.9				1.4			
8/17/2023									
2/20/2024	2.2	23.7	15.3		9.9	1.3	2.7	30.7	27.2
2/21/2024									
2/22/2024									
2/23/2024				1.6					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	6.2	1.4							
6/7/2016			2.2	3.7	2.3				
6/8/2016						13	25	15	44
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	4.73	1.19	2		2.08				
7/28/2016				3.15					
8/1/2016						12.2	21.4	14.5	36.3
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.5	1.97						
9/19/2016	4.76			3.17	1.97				
9/20/2016						12.2	26.3	15.3	39.5
9/21/2016									
11/1/2016									
11/2/2016					2.13				
11/3/2016	5.25	1.31	1.99	3.4					
11/4/2016									
11/7/2016						12.1	26.1	13.8	34.9
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	4.74	1.25	2.28						
1/12/2017									
1/13/2017				4.98	2.45				
1/16/2017									
1/18/2017						11.5	25.6	15.1	
1/19/2017									37
2/21/2017						11.7		14.6	
2/22/2017									37.6
2/23/2017							28.2		
2/24/2017									
3/1/2017	5.37	1.26							
3/2/2017			2.15						
3/3/2017									
3/6/2017				6.28	2.48				
3/7/2017									
3/8/2017									
4/26/2017	4.28	1.05		6.65	2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			1.95						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
5/3/2017						11.9			
5/5/2017									
5/8/2017							27.2	15.2	35.7
5/26/2017									
6/27/2017									
6/28/2017	4.95	1.06							
6/29/2017			2.02	6.04	2.54				
6/30/2017							27.2		36.2
7/5/2017									
7/7/2017									
7/10/2017						12.7		17.4	
7/11/2017									
7/17/2017									
10/3/2017				8.28					
10/4/2017		1.1	2.03		2.25				
10/5/2017	5.28								
10/6/2017									39.8
10/9/2017							27.3		
10/10/2017						11.4		15.5	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				9.1					
6/6/2018					2.3				
6/7/2018	4.8								
6/8/2018									
6/11/2018		1.4	2.1						
6/12/2018									36.2
6/13/2018						12.5	29.4	15.5	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	4.6	1	2.1	10.4 (J)	2.3				
9/26/2018									
10/1/2018									
10/2/2018						12.4 (J)	29.2	14.7	39.1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							27.4		38

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
4/2/2019			2.5	8.8		11.9 (J)		16.1 (J)	
4/3/2019	5.3	1.2			2.9				
6/12/2019									
9/24/2019				7.7					
9/25/2019			2.6		2.4	11.6		15.6	
9/26/2019	4.9	1.1					24.2		37.5
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						13			
3/20/2020							30.3	17.1	42.1
3/24/2020	5.3	1	2.7	6	2.6				
3/25/2020									
9/22/2020									
9/23/2020	5.2	0.91 (J)	2.6						
9/24/2020				7.8	2.6	11.3	27.9	16.9	38.6
9/25/2020									
3/1/2021									
3/2/2021						12.9			
3/3/2021	5.2	0.96 (J)	2.5		2.4		25.7	16.1	30.2
3/4/2021				8.7					
8/19/2021						11.5			
8/20/2021							25.7	17.2	29.9
8/26/2021		0.98 (J)							
8/27/2021	5.1		2.7		2.4				
9/1/2021				9.5					
9/3/2021									
2/8/2022									27.2
2/9/2022	5.1	0.87 (J)	2.8	9.8	2.3				
2/10/2022						11.6	27.4	16.4	
2/11/2022									
8/30/2022	5.7	0.77 (J)	3	7.3					
8/31/2022					2.4	10.8		16.4	
9/1/2022							28.2		21.3
2/7/2023	5.5	0.79 (J)	2.9	7.5	2.4				
2/8/2023									
2/9/2023						10.7	26.9	15.8	20.1
8/2/2023									
8/15/2023	5.1	0.8 (J)	2.9	6.1	2.2				
8/16/2023									
8/17/2023						10.8	25.4	15.6	20.8
2/20/2024	5.6		3.2	7	2.5				
2/21/2024							27.7		20.4
2/22/2024						11		16.7	
2/23/2024		0.84 (J)							

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	36	26	12					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	35.5	25.8	11.7					
8/30/2016				20.9				
8/31/2016					9.31			
9/13/2016								
9/14/2016						23.5		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	33.2	24.9	11.1					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						23.7		
11/7/2016		25.1	11.4					
11/8/2016	33.8							
11/14/2016				18.6				
11/28/2016					9.47 (B)			
12/15/2016						23.1		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						23.3		
1/18/2017	33.4	26.1						
1/19/2017			12					
2/21/2017		29						
2/22/2017	33.8		11.2		10.4			
2/23/2017								
2/24/2017				16.1				
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								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	33.5	28.1						
5/8/2017			11.2	14.6	14.2			
5/26/2017						26.2		
6/27/2017								
6/28/2017						26.1		
6/29/2017								
6/30/2017								
7/5/2017	33.4		11.9					
7/7/2017		28.6						
7/10/2017								
7/11/2017				14.3				
7/17/2017					14.1			
10/3/2017						26.7		
10/4/2017								
10/5/2017	36.4		12					
10/6/2017								
10/9/2017		27.3						
10/10/2017				12.1				
10/11/2017							2.74	
10/12/2017								2.9
10/16/2017					13.6			
11/20/2017							1.81	10.4
1/10/2018								10.2
1/11/2018							1.54	
2/19/2018					<25			<25
2/20/2018							1.71	
4/2/2018				<25				
4/3/2018							1.4	6.3
6/5/2018								
6/6/2018								
6/7/2018						25		
6/8/2018								
6/11/2018			12.1					
6/12/2018	33.4	26.4						
6/13/2018								
6/28/2018							1.4	6.7
8/6/2018					11.4 (J)			
8/7/2018							1.2	6.3
9/19/2018				11.1 (J)				
9/24/2018							1.1	5.7
9/25/2018								
9/26/2018								
10/1/2018						25		
10/2/2018			11.7 (J)					
10/3/2018	32.6	25.8						
2/25/2019					12.7 (J)			
3/26/2019								5.6
3/27/2019				10.8 (J)			1.5	
3/28/2019								
3/29/2019						23.5 (J)		
4/1/2019	33.8		11.9 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019		25.7						
4/3/2019								
6/12/2019					18.9			
9/24/2019						26.4		
9/25/2019			10.7					
9/26/2019	32	26.1						
10/8/2019				9.7	28.3			
10/9/2019							2.4	4.9
3/17/2020				14.8	24.3			
3/18/2020								
3/19/2020	37.3	30.4				27.4		
3/20/2020			12.7					
3/24/2020								4.8
3/25/2020							2.7	
9/22/2020				10.1	31			
9/23/2020						26.3		
9/24/2020	34.3	30.8	12.4				3.7	4.4
9/25/2020								
3/1/2021				10.3				
3/2/2021					34.2			
3/3/2021	30.9	28.4	9.5			25.6		
3/4/2021							8.2	4.6
8/19/2021				9.6				
8/20/2021	33.1	27.8	10.2		26.5			
8/26/2021							14.1	
8/27/2021						22.6		
9/1/2021								
9/3/2021								5.6
2/8/2022	31.8	26.7	9.3	9.4	25.6		15.2	6
2/9/2022						23.4		
2/10/2022								
2/11/2022								
8/30/2022					23.5	25.4		
8/31/2022				9.6			16.3	6.2
9/1/2022	26.3	33.1	11					
2/7/2023					22.3	25.6	16.1	
2/8/2023			11.9	9.2				5.9
2/9/2023	27.7	33.1						
8/2/2023			11.8					
8/15/2023				9.6	20.3	23.2	17.2	5.3
8/16/2023	27.3	31.2						
8/17/2023								
2/20/2024				10.3	22.8	28.2	16.9	5.6
2/21/2024	27.8	31						
2/22/2024			11.5					
2/23/2024								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	1.6	1.3	1.3						
6/2/2016				4.1	3.7	1.9	4.3	1.4	7.2
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	1.4	1.3				1.7			
7/26/2016			1.2	4	3.6		4.4	1.6	6.6
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	1.3		1.1						
9/14/2016		1.3			3.4		3.8		6.6
9/15/2016				4.2				1.5	
9/16/2016									
9/19/2016						1.6			
9/20/2016									
9/21/2016									
11/1/2016		1.4	1.3			1.8		1.7	
11/2/2016				4.9	4.5				7.6
11/3/2016									
11/4/2016	1.6						4.8		
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				4.1					
1/11/2017		1.1	1.1					1.2	
1/12/2017							3.8		6.8
1/13/2017					4.2				
1/16/2017	1.4					1.7			
1/18/2017									
1/19/2017									
2/21/2017						1.7			
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		1.1							
3/2/2017	1.3		1					1.2	
3/3/2017									
3/6/2017					3.6				
3/7/2017							4.5		6.8
3/8/2017				4.2					
4/26/2017		1.1		4.1		1.7		1.2	
4/27/2017	1.3		1						
4/28/2017									
5/1/2017					4.3				7.2
5/2/2017							4.6		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	1.4		1.1				4.3		7
6/28/2017		1.2						1.3	
6/29/2017					4.2				
6/30/2017				3.7		1.8			
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	1.7		1.1				4.2		6.5
10/4/2017		1.2				1.8		1.5	
10/5/2017				3.8	4.7				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			1.1						
6/6/2018	1.4								4.7
6/7/2018					4.4		4.5	1.2	
6/8/2018		1.2		3.4					
6/11/2018						2			
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					4.8		5.1		4.8
10/1/2018	1.4	1.2	1.1	3.8				1.5	
10/2/2018						1.8			
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	1.5		1.4						
3/29/2019				4.2					
4/1/2019		1.1				1.7		1.2	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
4/2/2019									
4/3/2019					4.3		4.2		4
6/12/2019									
9/24/2019	1.3		1.1				4.5		3.7
9/25/2019		1.1		4.8	4.5	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	
3/20/2020									
3/24/2020							4.3		3.5
3/25/2020					3.9				
9/22/2020					4.5		4.2		3.6
9/23/2020	1.2	1	0.99 (J)					1.1	
9/24/2020						1.5			
9/25/2020				5.3					
3/1/2021						1.6			
3/2/2021				4.9			4.3		3.2
3/3/2021	1.2	0.99 (J)	0.96 (J)		4.1			1.1	
3/4/2021									
8/19/2021	1.3		1.1	5		1.6		1.1	
8/20/2021									
8/26/2021					4.4		4.3		3.4
8/27/2021		1.1							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1.3	1.1	1					1.1	
2/10/2022				4.7			4.4		3.2
2/11/2022					4.1	2.1			
8/30/2022			1.3				4.4		3.5
8/31/2022	1.5	1.3		4.6	4.4	1.8		1.3	
9/1/2022									
2/7/2023	1.5		1.3						3.3
2/8/2023		1.1		4.9		1.6		1.2	
2/9/2023					4.5		5		
8/2/2023									
8/15/2023	1.4		1.1	4.1	4.4		4.1	1.1	3.1
8/16/2023		1.1				1.5			
8/17/2023									
2/20/2024	1.2	1.1	1		4.6	1.4	4.8	1.1	3.2
2/21/2024									
2/22/2024									
2/23/2024				4.8					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	6.8	6.4							
6/7/2016			4.5	2.8	1.9				
6/8/2016						18	14	19	22
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.7	6.2	4.5		1.9				
7/28/2016				2.6					
8/1/2016						16	13	17	21
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		6.1	4.5						
9/19/2016	7			2.4	1.9				
9/20/2016						18	13	18	22
9/21/2016									
11/1/2016									
11/2/2016					2.6				
11/3/2016	7.5	7.4	5.4	2.9					
11/4/2016									
11/7/2016						16	14	17	24
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.5	6.1	4.7						
1/12/2017									
1/13/2017				2.5	2.3				
1/16/2017									
1/18/2017						17	14	19	
1/19/2017									22
2/21/2017						16		18	
2/22/2017									21
2/23/2017							14		
2/24/2017									
3/1/2017	6.9	6							
3/2/2017			4.8						
3/3/2017									
3/6/2017				2.1	1.9				
3/7/2017									
3/8/2017									
4/26/2017	7	6.5		2.1	2				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			4.6						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
5/3/2017						17			
5/5/2017									
5/8/2017							14	18	22
5/26/2017									
6/27/2017									
6/28/2017	7	6.4							
6/29/2017			4.5	2.8	2.6				
6/30/2017							14		21
7/5/2017									
7/7/2017									
7/10/2017						15		19	
7/11/2017									
7/17/2017									
10/3/2017				2.2					
10/4/2017		6.8	4.7		2.6				
10/5/2017	7								
10/6/2017									21
10/9/2017							14		
10/10/2017						15		19	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				1.7					
6/6/2018					2.7				
6/7/2018	6.8								
6/8/2018									
6/11/2018		6.8	4.9						
6/12/2018									19.8
6/13/2018						14.2	13.1	18.1	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	7.9	7.8	5.6	2.2	3.6				
9/26/2018									
10/1/2018									
10/2/2018						14	13.8	18.3	19.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							14.2		19.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
4/2/2019			4.8	2.5		13.5		17.9	
4/3/2019	6.9	6.3			3.1				
6/12/2019									
9/24/2019				3.1					
9/25/2019			5.7		2.8	14.4		17.1	
9/26/2019	7	7.1					14.3		19.6
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						15.4			
3/20/2020							13	17.7	17.7
3/24/2020	7	6.8	5	2.8	2.7				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2	6.6						
9/24/2020				2	2.7	15.7	13.3	17.1	17
9/25/2020									
3/1/2021									
3/2/2021						13.2			
3/3/2021	7	7.2	7.1		2.7		13	16.6	4
3/4/2021				1.8					
8/19/2021						13.5			
8/20/2021							13.7	14.4	15.2
8/26/2021		7.3							
8/27/2021	7.4		8.5		2.8				
9/1/2021				1.8					
9/3/2021									
2/8/2022									13
2/9/2022	7.5	7	10.9	1.7	2.8				
2/10/2022						14	13.1	15.4	
2/11/2022									
8/30/2022	7.9	7	12	2.4					
8/31/2022					2.9	15		16.6	
9/1/2022							13.4		10.4
2/7/2023	7.4	6.4	11.4	2.4	2.9				
2/8/2023									
2/9/2023						15.1	13.9	16.6	11.5
8/2/2023									
8/15/2023	7.3	6.7	11.6	2.3	2.8				
8/16/2023									
8/17/2023						14.4	12.9	15.7	11.7
2/20/2024	7.6		12.2	2.3	2.9				
2/21/2024							12.5		12.6
2/22/2024						14.9		16	
2/23/2024		6.6							

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	18	19	15					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	18	18	14					
8/30/2016				5.2				
8/31/2016					4			
9/13/2016								
9/14/2016						1.1		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	18	19	14					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						1.4		
11/7/2016		20	14					
11/8/2016	18							
11/14/2016				6.4				
11/28/2016					4.2			
12/15/2016						2.9		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						0.98		
1/18/2017	18	20						
1/19/2017			14					
2/21/2017		19						
2/22/2017	18		13		3.7			
2/23/2017								
2/24/2017				5.5				
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								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	19	21						
5/8/2017			15	5.8	4.2			
5/26/2017						0.93		
6/27/2017								
6/28/2017						1		
6/29/2017								
6/30/2017								
7/5/2017	18		14					
7/7/2017		20						
7/10/2017								
7/11/2017				5.8				
7/17/2017					3.8			
10/3/2017						1.2		
10/4/2017								
10/5/2017	19		15					
10/6/2017								
10/9/2017		20						
10/10/2017				5.9				
10/11/2017							2.4	
10/12/2017								3.8
10/16/2017					4.2			
11/20/2017							1.8	4.4
1/10/2018								4.6
1/11/2018							1.6	
2/19/2018					4.3			4.6
2/20/2018							2	
4/2/2018				4.8				
4/3/2018							3.3	5.9
6/5/2018								
6/6/2018								
6/7/2018						1		
6/8/2018								
6/11/2018			13.6					
6/12/2018	17.6	19.3						
6/13/2018								
6/28/2018							2.1	5
8/6/2018					3.8			
8/7/2018							1.2	4.3
9/19/2018				4				
9/24/2018							1.3	4.9
9/25/2018								
9/26/2018								
10/1/2018						1.1		
10/2/2018			13.4					
10/3/2018	17.7	20.2						
2/25/2019					4.1			
3/26/2019								4.4
3/27/2019				4.3			1.4	
3/28/2019								
3/29/2019						1.2		
4/1/2019	17.2		13.1					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019		19.5						
4/3/2019								
6/12/2019					4.7			
9/24/2019						0.95 (J)		
9/25/2019			11.3					
9/26/2019	17.3	19.5						
10/8/2019				4.4	5.1			
10/9/2019							2.1	5.1
3/17/2020				4.1	4.8			
3/18/2020								
3/19/2020	16	18.1				0.97 (J)		
3/20/2020			11.3					
3/24/2020								4.7
3/25/2020							1.9	
9/22/2020				4.2	4.2			
9/23/2020						0.88 (J)		
9/24/2020	15.1	18	10.9				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	14.6	18	6.7			0.86 (J)		
3/4/2021							4.9	4.9
8/19/2021				3.5				
8/20/2021	15.2	18.1	6.8		5.2			
8/26/2021							7.2	
8/27/2021						0.99 (J)		
9/1/2021								
9/3/2021								5.5
2/8/2022	15.2	18.3	5.5	3.2	5.7		7.4	6.2
2/9/2022						1 (J)		
2/10/2022								
2/11/2022								
8/30/2022					6.3	1.2		
8/31/2022				3.5			6.7	6.3
9/1/2022	10.4	16.5	8.1					
2/7/2023					6.1	1.1	5.6	
2/8/2023			10.4	3.5				6.9
2/9/2023	11.5	18.1						
8/2/2023			9.5					
8/15/2023				3.5	5.6	0.93 (J)	4.5	5.6
8/16/2023	10.5	16.8						
8/17/2023								
2/20/2024				3.2	6.1	0.96 (J)	4.6	5.7
2/21/2024	10.4	17.5						
2/22/2024			10.5					
2/23/2024								

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
6/1/2016	0.15 (J)	<0.1	0.12 (J)						
6/2/2016				<0.1	<0.1	0.11 (J)	0.62	<0.1	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	0.14 (J)	0.06 (J)							0.06 (J)
7/26/2016			0.08 (J)	0.02 (J)	<0.1	0.05 (J)	0.49	<0.1	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		<0.1	0.11 (J)						
9/14/2016	0.18 (J)				<0.1	0.04 (J)		<0.1	
9/15/2016				<0.1			0.54		
9/16/2016									
9/19/2016									<0.1
9/20/2016									
9/21/2016									
11/1/2016	<0.1		<0.1				0.68		<0.1
11/2/2016				<0.1	<0.1	<0.1			
11/3/2016									
11/4/2016		<0.1						<0.1	
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				<0.1					
1/11/2017	0.09 (J)		0.05 (J)				0.49		
1/12/2017						0.04 (J)		<0.1	
1/13/2017					<0.1				
1/16/2017		<0.1							<0.1
1/18/2017									
1/19/2017									
2/21/2017									<0.1
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	<0.1								
3/2/2017		<0.1	<0.1				0.48		
3/3/2017									
3/6/2017					<0.1				
3/7/2017						<0.1		<0.1	
3/8/2017				<0.1					
4/26/2017	0.08 (J)			<0.1			0.48		<0.1
4/27/2017		0.01 (J)	0.04 (J)						
4/28/2017									
5/1/2017					<0.1	<0.1			
5/2/2017								<0.1	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		<0.1	<0.1			<0.1		<0.1	
6/28/2017	0.12 (J)						0.47		
6/29/2017					<0.1				
6/30/2017				<0.1					<0.1
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		<0.1	<0.1			<0.1		<0.1	
10/4/2017	<0.1						<0.1		<0.1
10/5/2017				<0.1	<0.1				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018		<0.1		<0.1					<0.1
3/28/2018	<0.1						0.56		
3/29/2018			<0.1		<0.1	<0.1		<0.1	
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			0.055 (J)						
6/6/2018		<0.1				0.15 (J)			
6/7/2018					<0.1		0.48	<0.1	
6/8/2018	0.2 (J)			<0.1					
6/11/2018									<0.1
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					<0.1	<0.1		<0.1	
10/1/2018	<0.1	<0.1	<0.1	<0.1			0.44		
10/2/2018									<0.1
10/3/2018									
2/25/2019									
2/26/2019				<0.1					<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
2/27/2019	0.13 (J)	<0.1	0.052 (J)				0.53		
3/4/2019					<0.1	0.19 (J)		<0.1	
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.1	0.036 (J)						
3/29/2019				<0.1					
4/1/2019	0.1 (J)						0.45		<0.1
4/2/2019									
4/3/2019					<0.1	0.047 (J)		<0.1	
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019		<0.1	0.063 (J)			0.05 (J)		<0.1	
9/25/2019	0.1 (J)			<0.1	<0.1		0.46		<0.1
9/26/2019									
10/8/2019									
10/9/2019									
2/10/2020		<0.1	0.061 (J)						
2/11/2020	0.094 (J)								
2/12/2020				<0.1	<0.1	<0.1	0.4	<0.1	<0.1
2/13/2020									
3/17/2020									
3/18/2020		<0.1		<0.1					
3/19/2020	0.11 (J)		0.064 (J)				0.51		<0.1
3/20/2020									
3/24/2020						<0.1		<0.1	
3/25/2020					<0.1				
8/26/2020									
8/27/2020									
9/22/2020					<0.1	0.056 (J)		<0.1	
9/23/2020	0.098 (J)	<0.1	0.058 (J)				0.47		
9/24/2020									<0.1
9/25/2020				<0.1					
2/8/2021						0.055 (J)		<0.1	
2/9/2021					<0.1				
2/10/2021	<0.1			<0.1			0.43		
2/11/2021									<0.1
2/12/2021		<0.1	0.068 (J)						
3/1/2021									<0.1
3/2/2021				<0.1		<0.1		<0.1	
3/3/2021	0.1	<0.1	0.078 (J)		<0.1		0.44		
3/4/2021									
8/19/2021		<0.1	0.074 (J)	<0.1			0.47		<0.1
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									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-30I (bg)
2/9/2022	0.097 (J)	<0.1	0.057 (J)				0.43		
2/10/2022				<0.1		0.055 (J)		<0.1	
2/11/2022					<0.1				<0.1
8/30/2022			0.093 (J)			0.085 (J)		<0.1	
8/31/2022	0.13	0.065 (J)		0.053 (J)	0.061 (J)		0.42		0.06 (J)
9/1/2022									
2/7/2023		0.071 (J)	0.093 (J)			0.082 (J)			
2/8/2023	0.16			0.059 (J)			0.56		0.064 (J)
2/9/2023					0.067 (J)			<0.1	
8/2/2023									
8/15/2023		<0.1	0.057 (J)	<0.1	<0.1	<0.1	0.42	<0.1	
8/16/2023	0.11								<0.1
8/17/2023									
2/20/2024	0.12	<0.1	0.086 (J)		0.059 (J)	0.076 (J)	0.45	<0.1	0.051 (J)
2/21/2024									
2/22/2024									
2/23/2024				<0.1					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27S	YGWC-26S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
6/8/2016						0.094 (J)	0.12 (J)	<0.1	0.086 (J)
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1		<0.1				
7/28/2016				0.02 (J)					
8/1/2016						0.08 (J)	0.22 (J)	0.24 (J)	0.14 (J)
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		<0.1	<0.1						
9/19/2016	<0.1			0.02 (J)	<0.1				
9/20/2016						0.05 (J)	0.32	0.03 (J)	<0.1
9/21/2016									
11/1/2016									
11/2/2016					<0.1				
11/3/2016	<0.1	<0.1	<0.1	<0.1					
11/4/2016									
11/7/2016						<0.1 (*)	<0.1 (*)	0.44	<0.1 (*)
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1	<0.1						
1/12/2017									
1/13/2017				<0.1	<0.1				
1/16/2017									
1/18/2017						0.11 (J)		<0.1 (*)	<0.1 (*)
1/19/2017							0.25 (J)		
2/21/2017						<0.1 (*)		<0.1 (*)	
2/22/2017							0.21 (J)		
2/23/2017									<0.1 (*)
2/24/2017									
3/1/2017	<0.1	<0.1							
3/2/2017			<0.1						
3/3/2017									
3/6/2017				<0.1	<0.1				
3/7/2017									
3/8/2017									
4/26/2017	<0.1	<0.1		0.04 (J)	<0.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.1						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27S	YGWC-26S	YGWC-27I
5/3/2017								0.16 (J)	
5/5/2017									
5/8/2017						0.08 (J)	0.19 (J)		0.07 (J)
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1	<0.1				
6/30/2017							0.2 (J)		<0.1 (*)
7/5/2017									
7/7/2017									
7/10/2017						<0.1 (*)		<0.1 (*)	
7/11/2017									
7/17/2017									
10/3/2017				<0.1					
10/4/2017		<0.1	<0.1		<0.1				
10/5/2017	<0.1								
10/6/2017							<0.1 (*)		
10/9/2017									<0.1 (*)
10/10/2017						<0.1		<0.1	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1	<0.1						
3/29/2018				<0.1	<0.1		0.49		<0.1
3/30/2018						<0.1		0.35	
4/2/2018									
4/3/2018									
6/5/2018				0.13 (J)					
6/6/2018					<0.1				
6/7/2018	<0.1								
6/8/2018									
6/11/2018		<0.1	<0.1						
6/12/2018							0.037 (J)		
6/13/2018						0.088 (J)		0.044 (J)	<0.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	<0.1	<0.1	<0.1	0 (J)	<0.1				
9/26/2018									
10/1/2018									
10/2/2018						<0.1	<0.1	<0.1	<0.1
10/3/2018									
2/25/2019									
2/26/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27S	YGWC-26S	YGWC-27I
2/27/2019						<0.1	0.14 (J)	<0.1	<0.1
3/4/2019									
3/5/2019		<0.1	<0.1	0.32	<0.1				
3/6/2019	<0.1								
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							0.088 (J)		0.034 (J)
4/2/2019			<0.1	0.12 (J)		0.071 (J)		<0.1	
4/3/2019	<0.1	<0.1			<0.1				
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019				0.15 (J)					
9/25/2019			<0.1		<0.1	0.064 (J)		<0.1	
9/26/2019	<0.1	<0.1					0.22 (J)		0.14 (J)
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				0.1 (J)	<0.1				
2/13/2020						<0.1	0.11 (J)	<0.1	<0.1
3/17/2020									
3/18/2020									
3/19/2020								<0.1	
3/20/2020						0.06 (J)	0.097 (J)		<0.1
3/24/2020	<0.1	<0.1	<0.1	0.081 (J)	<0.1				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1	<0.1						
9/24/2020				0.079 (J)	<0.1	0.053 (J)	0.092 (J)	<0.1	0.059 (J)
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1		0.092 (J)	<0.1				
2/10/2021						0.05 (J)	0.084 (J)	<0.1	0.055 (J)
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021								<0.1	
3/3/2021	<0.1	<0.1	<0.1		<0.1	0.05 (J)	<0.1		0.058 (J)
3/4/2021				0.091 (J)					
8/19/2021								<0.1	
8/20/2021						<0.1	0.11		0.091 (J)
8/26/2021		<0.1							
8/27/2021	<0.1		<0.1		<0.1				
9/1/2021				0.11					
9/3/2021									
2/8/2022							0.087 (J)		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27S	YGWC-26S	YGWC-27I
2/9/2022	<0.1	<0.1	<0.1	0.1	<0.1				
2/10/2022						<0.1		<0.1	0.059 (J)
2/11/2022									
8/30/2022	<0.1	<0.1	<0.1	0.1					
8/31/2022					<0.1	0.082 (J)		0.076 (J)	
9/1/2022							0.12		0.1
2/7/2023	<0.1	<0.1	<0.1	0.1	<0.1				
2/8/2023									
2/9/2023						0.088 (J)	0.12	0.07 (J)	0.1
8/2/2023									
8/15/2023	<0.1	<0.1	<0.1	0.061 (J)	<0.1				
8/16/2023									
8/17/2023						0.073 (J)	0.098 (J)	0.06 (J)	0.081 (J)
2/20/2024	<0.1		<0.1	0.083 (J)	<0.1				
2/21/2024							0.11		0.082 (J)
2/22/2024						0.057 (J)		<0.1	
2/23/2024		<0.1							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	0.098 (J)	0.16 (J)	0.085 (J)					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	0.38	0.5	0.09 (J)					
8/30/2016				0.09 (J)				
8/31/2016					0.14 (J)			
9/13/2016								
9/14/2016						0.08 (J)		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	0.08 (J)	0.25 (J)	0.09 (J)					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.1		
11/7/2016		0.27 (J)	<0.1 (*)					
11/8/2016	0.24 (J)							
11/14/2016				0.18 (J)				
11/28/2016					0.12 (J)			
12/15/2016						0.06 (J)		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						0.1 (J)		
1/18/2017	0.12 (J)	0.34						
1/19/2017			<0.1 (*)					
2/21/2017		0.27 (J)						
2/22/2017	<0.1 (*)		<0.1 (*)		0.09 (J)			
2/23/2017								
2/24/2017				0.05 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.06 (J)		
5/1/2017								
5/2/2017								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	0.08 (J)	0.2 (J)						
5/8/2017			0.06 (J)	0.03 (J)	0.05 (J)			
5/26/2017						0.09 (J)		
6/27/2017								
6/28/2017						0.11 (J)		
6/29/2017								
6/30/2017								
7/5/2017	0.11 (J)		0.08 (J)					
7/7/2017		0.18 (J)						
7/10/2017								
7/11/2017				0.07 (J)				
7/17/2017					0.14 (J)			
10/3/2017						<0.1		
10/4/2017								
10/5/2017	<0.1 (*)		<0.1 (*)					
10/6/2017								
10/9/2017		<0.1 (*)						
10/10/2017				<0.1				
10/11/2017							<0.1	
10/12/2017								<0.1
10/16/2017					0.12 (J)			
11/20/2017							<0.1	<0.1
1/10/2018								<0.1
1/11/2018							<0.1	
2/19/2018					0.17			<0.1
2/20/2018							0.23	
3/27/2018								
3/28/2018						0.31		
3/29/2018			<0.1					
3/30/2018	<0.1	<0.1						
4/2/2018				<0.1				
4/3/2018							<0.1	<0.1
6/5/2018								
6/6/2018								
6/7/2018						0.11 (J)		
6/8/2018								
6/11/2018			<0.1					
6/12/2018	<0.1	0.13 (J)						
6/13/2018								
6/28/2018							<0.1	<0.1
8/6/2018					0.087 (J)			
8/7/2018							0.048 (J)	<0.1
9/19/2018				<0.1				
9/24/2018							<0.1	<0.1
9/25/2018								
9/26/2018								
10/1/2018						<0.1		
10/2/2018			<0.1					
10/3/2018	<0.1	0.31						
2/25/2019					0.14 (J)			
2/26/2019								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.14 (J)	0.22 (J)	0.15 (J)			0.12 (J)		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								<0.1
3/27/2019				0.081 (J)			<0.1	
3/28/2019								
3/29/2019						0.13 (J)		
4/1/2019	0.078 (J)		0.059 (J)					
4/2/2019		0.14 (J)						
4/3/2019								
6/12/2019					0.12 (J)			
8/19/2019					<0.1			
8/20/2019				<0.1				
8/21/2019							<0.1	<0.1
9/24/2019						0.081 (J)		
9/25/2019			0.054 (J)					
9/26/2019	0.29 (J)	0.28 (J)						
10/8/2019				0.034 (J)	0.052 (J)			
10/9/2019							<0.1	<0.1
2/10/2020								
2/11/2020						0.075 (J)		
2/12/2020							<0.1	<0.1
2/13/2020	0.14 (J)	0.18 (J)	0.053 (J)					
3/17/2020				<0.1	0.053 (J)			
3/18/2020								
3/19/2020	0.07 (J)	0.16 (J)				0.093 (J)		
3/20/2020			0.057 (J)					
3/24/2020								<0.1
3/25/2020							<0.1	
8/26/2020					0.068 (J)			
8/27/2020				<0.1				
9/22/2020				<0.1	0.058 (J)			
9/23/2020						0.08 (J)		
9/24/2020	0.073 (J)	0.16	0.06 (J)				<0.1	<0.1
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021						0.094 (J)	<0.1	<0.1
2/11/2021	0.066 (J)							
2/12/2021		0.069 (J)	0.17					
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.072 (J)	0.13	0.056 (J)			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.11	0.2	0.069 (J)		0.06 (J)			
8/26/2021							0.063 (J)	
8/27/2021						0.12		
9/1/2021								
9/3/2021								<0.1
2/8/2022	0.063 (J)	0.14	0.053 (J)	<0.1	0.064 (J)		0.052 (J)	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/9/2022						0.094 (J)		
2/10/2022								
2/11/2022								
8/30/2022					0.086 (J)	0.12		
8/31/2022				0.065 (J)			0.065 (J)	0.05 (J)
9/1/2022	0.11	0.16	0.091 (J)					
2/7/2023					0.095 (J)	0.12	0.076 (J)	
2/8/2023			0.092 (J)	0.077 (J)				<0.1
2/9/2023	0.14	0.18						
8/2/2023			0.054 (J)					
8/15/2023				<0.1	0.065 (J)	0.081 (J)	<0.1	<0.1
8/16/2023	0.078 (J)	0.18						
8/17/2023								
2/20/2024				0.073 (J)	0.094 (J)	0.1	0.063 (J)	<0.1
2/21/2024	0.096 (J)	0.15						
2/22/2024			0.075 (J)					
2/23/2024								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64								
6/1/2016		6.33	7.72	7.46					
6/2/2016					5.75	5.46	7.84	5.75	6.36
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		6.21	7.74		5.82				
7/26/2016				7.43		5.45	7.88	5.72	6.22
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
9/13/2016		6.16		7.44					
9/14/2016			7.65					5.74	6.23
9/15/2016						5.45	7.74		
9/16/2016									
9/19/2016					5.78 (D)				
9/20/2016									
9/21/2016									
11/1/2016			7.7	7.24	5.62		7.75		
11/2/2016						5.41			6.08
11/3/2016									
11/4/2016		6.29						5.61	
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017						5.37			
1/11/2017			7.53	7.3			7.66		
1/12/2017								5.71	
1/13/2017									6.19
1/16/2017		6.29			5.72				
1/18/2017									
1/19/2017									
2/21/2017					5.67				
2/22/2017	6.21								
2/23/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)
2/24/2017									
3/1/2017			7.42						
3/2/2017		6.28		7.23			7.68		
3/3/2017									
3/6/2017									6.2
3/7/2017								5.66	
3/8/2017						5.41			
4/26/2017			7.4		5.56	5.02	7.45		
4/27/2017		6.09		6.99					
4/28/2017									
5/1/2017									6.21
5/2/2017								5.65	
5/3/2017									
5/5/2017									
5/8/2017	6.12								
5/26/2017									
6/27/2017		6.21		6.87				5.7	
6/28/2017			7.5				7.65		
6/29/2017									6.21
6/30/2017					5.72	5.39			
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017	6.03								
10/3/2017		5.98		6.81				5.79	
10/4/2017			7.45		5.87		7.49		
10/5/2017						5.49			6.16
10/6/2017									
10/9/2017									
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			5.83	5.47			
3/28/2018			7.74				7.91		
3/29/2018				7.38				5.63	6.09
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018				7.16					
6/6/2018		6.17							
6/7/2018							7.69	5.63	6.12
6/8/2018			7.64			5.45			
6/11/2018					5.69				
6/12/2018									
6/13/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018								5.63	5.84
10/1/2018		5.9	7.47	6.8		5.39	7.39		
10/2/2018					5.39				
10/3/2018									
2/25/2019	6.51								
2/26/2019					5.77	5.46			
2/27/2019		5.8	7.54	6.84			7.55		
3/4/2019								5.75	6.18
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		6.15		6.99					
3/29/2019						5.34			
4/1/2019			7.74		5.62		7.87		
4/2/2019									
4/3/2019								5.63	6.43
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019		6.23		7.07				5.6	
9/25/2019			7.47		5.69	5.19	7.64		6.2
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020		6.1		7.2					
2/11/2020			7.09						
2/12/2020					5.8	5.48	7.83	5.83	6.15
2/13/2020									
3/17/2020	6.14								
3/18/2020		6.19				5.38			
3/19/2020			7.31	7.03	6		7.65		
3/20/2020									
3/24/2020								5.81	
3/25/2020									6.26
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78							5.99	5.8
9/23/2020		6.01	7.37	7.15			7.57		
9/24/2020					5.67				
9/25/2020						5.44			
2/8/2021								5.67	
2/9/2021									6.06
2/10/2021			7.58			5.35	7.81		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-14S (bg)	YGWA-3D (bg)	YGWA-5I (bg)	YGWA-4I (bg)
2/11/2021					5.73				
2/12/2021		6.21		7.14					
3/1/2021					5.78				
3/2/2021	5.42					5.49		5.63	
3/3/2021		5.38	8.23	7.2			8.39		6.21
3/4/2021									
8/19/2021		6.38		6.32		7.32	5.34		
8/20/2021	5.86								
8/26/2021								5.51	5.82
8/27/2021			7.39						
9/1/2021									
9/3/2021									
2/8/2022	5.83								
2/9/2022		6.24	7.66	7.12			7.97		
2/10/2022						4.5		5.14	
2/11/2022					5.59				5.95
8/30/2022	5.39			7.2				5	
8/31/2022		5.64	7.49		5.87	5.15	7.65		5.5
9/1/2022									
2/7/2023	5.94	6.53		7.86					
2/8/2023			7.73		6.43	5.39	7.88		
2/9/2023								5.9	6.23
8/2/2023									
8/15/2023	5.3	5.88		6.98		5.03	7.69	5.58	5.99
8/16/2023			7.39		5.55				
8/17/2023									
2/20/2024	6.07	6.42	7.59	7.06	5.81		7.81	5.78	6.21
2/21/2024									
2/22/2024									
2/23/2024						5.39			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	7.67								
6/6/2016		6.17	5.71						
6/7/2016				6.1	5.77	5.62			
6/8/2016							6.32	5.85	6.24
6/9/2016									
7/25/2016									
7/26/2016	7.66								
7/27/2016		6.14	5.46		5.79	5.59			
7/28/2016				6.12					
8/1/2016							6.34	5.83	6.12
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016	7.6								
9/15/2016									
9/16/2016						5.58			
9/19/2016		6.04	5.59	6.12	5.73				
9/20/2016							6.36	5.89	6.3
9/21/2016									
11/1/2016									
11/2/2016	7.35				5.67				
11/3/2016		5.97	5.39	6.07		5.59			
11/4/2016									
11/7/2016							6.3	5.91	6.25
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		6.05	5.48			5.59			
1/12/2017	7.49								
1/13/2017				6.41	5.79				
1/16/2017									
1/18/2017							6.31	5.84	
1/19/2017									6.2
2/21/2017								5.79	
2/22/2017									6.14
2/23/2017							6.18		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S
2/24/2017									
3/1/2017		5.94	5.41						
3/2/2017						5.54			
3/3/2017									
3/6/2017				6.34	5.63				
3/7/2017	7.43								
3/8/2017									
4/26/2017		5.99	5.4	6.32	5.66				
4/27/2017									
4/28/2017									
5/1/2017	7.22								
5/2/2017						5.47			
5/3/2017									
5/5/2017									
5/8/2017							6.24	5.84	6.11
5/26/2017									
6/27/2017	7.32								
6/28/2017		6	5.36						
6/29/2017				6.47	5.85	5.56			
6/30/2017							6.21		6.17
7/5/2017									
7/7/2017									
7/10/2017								5.92	
7/11/2017									
7/17/2017									
10/3/2017	7.48			6.56					
10/4/2017			5.32		5.83	5.57			
10/5/2017		6.11							
10/6/2017									6.13
10/9/2017							6.26		
10/10/2017								5.84	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018		6.1	5.34			5.59			
3/29/2018	7.02			6.75	5.93		6.36		6.25
3/30/2018								6.19	
4/2/2018									
4/3/2018									
6/5/2018				6.09					
6/6/2018	7.43				5.86				
6/7/2018		5.98							
6/8/2018									
6/11/2018			5.28			5.58			
6/12/2018									6.22
6/13/2018							6.28	5.82	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		5.81	4.86	6.67	5.84	5.59			
9/26/2018	7.13								
10/1/2018									
10/2/2018							5.9	5.81	5.99
10/3/2018									
2/25/2019									
2/26/2019									
2/27/2019							6.31	5.79	6.26
3/4/2019	7.46								
3/5/2019			5.26	7.22	6.07	5.48			
3/6/2019		5.99							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							6.43		6.4
4/2/2019				6.94		5.74		5.87	
4/3/2019	7.11	6.29	5.47		5.71				
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	6.93			6.87					
9/25/2019					5.86	5.49		5.79	
9/26/2019		6.04	5.2				6.3		6.22
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		6.07	5.3			5.58			
2/12/2020	7.52			7.13	6				
2/13/2020							6.4	5.93	6.31
3/17/2020									
3/18/2020									
3/19/2020									
3/20/2020							6.32	5.94	6.18
3/24/2020	7.34	5.98	5.33	6.35	5.86	5.57			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020	7.19								
9/23/2020		6.01	5.29			5.58			
9/24/2020				6.7	5.8		6.36	5.86	6.27
9/25/2020									
2/8/2021									
2/9/2021		6.12	5.43	6.95	5.86				
2/10/2021							6.29	5.96	6.21

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26I	YGWC-27S
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021	7.15								
3/3/2021		5.89	5.31		5.89	5.52	6.43	5.93	6.35
3/4/2021				6.8					
8/19/2021									
8/20/2021							6.17	5.78	6.18
8/26/2021	7.16		4.4						
8/27/2021		5.4			5.57	5.27			
9/1/2021				6.65					
9/3/2021									
2/8/2022									6.22
2/9/2022		5.98	5.28	6.84	5.91	5.53			
2/10/2022	6.99						6.23	5.84	
2/11/2022									
8/30/2022	7.4	5.82	5.18	6.58		4.68			
8/31/2022					5.38			5.77	
9/1/2022							6.13		6.13
2/7/2023	6.64	6	5.03	6.82	5.63	5.47			
2/8/2023									
2/9/2023							6.48	5.76	6.64
8/2/2023									
8/15/2023	7.34	5.82	5.2	6.84	7	5.54			
8/16/2023									
8/17/2023							6.2	5.77	6.06
2/20/2024	7.56	6.11		6.78	5.99	5.64			
2/21/2024							6.43		6.26
2/22/2024								5.92	
2/23/2024			5.3						

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
8/27/2008								
3/3/2009								
11/18/2009								
3/3/2010								
3/10/2011								
9/8/2011								
3/5/2012								
9/10/2012								
2/6/2013								
8/12/2013								
2/5/2014								
8/3/2015								
2/16/2016								
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016	5.24							
6/9/2016		6.19	6.42	6.39				
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016	5.17							
8/2/2016		6.17	6.43	6.35				
8/30/2016					5.75			
9/13/2016						7.41		
9/14/2016								
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016	5.35							
9/21/2016		6.2	6.45	6.39				
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						7.12		
11/7/2016	5.35	6.1		6.36				
11/8/2016			6.37					
11/14/2016					5.59			
11/28/2016								
12/15/2016						7.24		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						7.24		
1/18/2017	5.2		6.27	6.23				
1/19/2017		6.22						
2/21/2017	5.14			6.42				
2/22/2017		6.12	6.35					
2/23/2017								

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/24/2017					5.49			
3/1/2017								
3/2/2017								
3/3/2017						7.22		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						7.21		
5/1/2017								
5/2/2017								
5/3/2017	5.28							
5/5/2017			6.36	6.4				
5/8/2017		6.11			5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017								
7/5/2017		6.17	6.4					
7/7/2017				6.46				
7/10/2017	5.25							
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017		6.17	6.43					
10/6/2017								
10/9/2017				6.37				
10/10/2017	5.17				5.49			
10/11/2017							6.4	
10/12/2017								5.43
10/16/2017								
11/20/2017							6.33	5.1
1/10/2018								4.97
1/11/2018							6.29	
2/19/2018								5.6
2/20/2018							7.22	
3/27/2018								
3/28/2018						7.3		
3/29/2018		6.09						
3/30/2018	5.19		6.39	6.35				
4/2/2018					6.3 (o)			
4/3/2018							6.87	5.84
6/5/2018								
6/6/2018								
6/7/2018						7.29		
6/8/2018								
6/11/2018		6.17						
6/12/2018			6.42	6.47				
6/13/2018	5.12							

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/28/2018							6.18	5.24
8/6/2018								
8/7/2018							6.08	5.18
9/19/2018					5.48			
9/24/2018							5.81	5.14
9/25/2018								
9/26/2018								
10/1/2018						7.07		
10/2/2018	4.95	6.17						
10/3/2018			6.21	6.01				
2/25/2019								
2/26/2019								
2/27/2019	5	6.19	6.32	6.38		7.27		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								5.3
3/27/2019					5.83		5.84	
3/28/2019								
3/29/2019						7.06		
4/1/2019		6.03	6.3					
4/2/2019	5.13			6.7				
4/3/2019								
6/12/2019								
8/19/2019								
8/20/2019					5.58			
8/21/2019							5.96	5.26
9/24/2019						7.01		
9/25/2019	5.24	6.21						
9/26/2019			6.43	6.47				
10/8/2019					5.59			
10/9/2019							5.81	5.22
2/10/2020								
2/11/2020						7.38		
2/12/2020							5.97	5.3
2/13/2020	5.29	6.32	6.49	6.53				
3/17/2020					5.57			
3/18/2020								
3/19/2020	5.46		7.01	6.98		7.22		
3/20/2020		6.17						
3/24/2020								5.29
3/25/2020							5.78	
5/6/2020								
8/26/2020								
8/27/2020					4.88			
9/22/2020					5.46			
9/23/2020						7.22		
9/24/2020	5.46	6.2	6.41	6.53			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	5.18					7.29	5.8	5.19

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021			6.57					
2/12/2021		6.24		6.6				
3/1/2021					5.48			
3/2/2021	5.38							
3/3/2021		6.27	6.51	6.61		7.92		
3/4/2021							5.54	5.23
8/19/2021	5.12				5.5			
8/20/2021		6.07	6.23	6.38				
8/26/2021							6.91	
8/27/2021						7.14		
9/1/2021								
9/3/2021								4.75
2/8/2022		5.88	6.34	6.3	5.4		5.78	5.26
2/9/2022						5.89		
2/10/2022	5.31							
2/11/2022								
8/30/2022						7.04		
8/31/2022	5.61				5.32		5.3	4.53
9/1/2022		6.05	6.41	6.59				
2/7/2023						6.94	5.49	
2/8/2023		6.67			5.22			5.71
2/9/2023	5.64		6.7	6.87				
8/2/2023		6.04						
8/15/2023					5.69	6.96	5.78	5
8/16/2023			6.3	6.36				
8/17/2023	5.38							
2/20/2024					5.62	7.23	5.97	5.32
2/21/2024			6.43	6.49				
2/22/2024	5.58	6.01						
2/23/2024								

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
6/1/2016	4.2	12	5						
6/2/2016				6.6	8	1.3	1.9	5.8	20
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	3.7	8.4				1.2			
7/26/2016			5.4	6.1	7.7		1.8	6.7	20
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	5.2		2.9						
9/14/2016		8.6			7.5		1.8		19
9/15/2016				6.1				6	
9/16/2016									
9/19/2016						1.2			
9/20/2016									
9/21/2016									
11/1/2016		8.9	3.9			1.3		4.9	
11/2/2016				6.3	8.2				20
11/3/2016									
11/4/2016	5						2		
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				5.9					
1/11/2017		8.6	3.7					4.5	
1/12/2017							1.9		19
1/13/2017					8.1				
1/16/2017	7.9					<1			
1/18/2017									
1/19/2017									
2/21/2017						1.4			
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		9.3							
3/2/2017	7.4		4.6					4.4	
3/3/2017									
3/6/2017					8				
3/7/2017							2.1		20
3/8/2017				7					
4/26/2017		11		7		1.4		5.1	
4/27/2017	7.4		5.2						
4/28/2017									
5/1/2017					8.4				20
5/2/2017							2		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	6.4		5.9				2.1		18
6/28/2017		12						5.4	
6/29/2017					9.2				
6/30/2017				6.5		<1			
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	5.9		6.6				2.3		16
10/4/2017		12				1.4		6.2	
10/5/2017				7.9	9.6				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			6.4						
6/6/2018	4.4								8.3
6/7/2018					8.5		2	6.7	
6/8/2018		9.6		6.4					
6/11/2018						1.1			
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					10.2		2.3		7.9
10/1/2018	4	9.1	5.6	6.8				7.1	
10/2/2018						1			
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	4.3		8						
3/29/2019				7.3					
4/1/2019		8.5				0.96 (J)		7.2	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-5D (bg)
4/2/2019									
4/3/2019					8.5		2.1		7
6/12/2019									
9/24/2019	4.3		5.3				2.4		5.5
9/25/2019		13.8		6.6	8.5	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		12.9	10			1.6		9	
3/20/2020									
3/24/2020							2.1		5.9
3/25/2020					8.8				
9/22/2020					8.2		2.1		5.5
9/23/2020	3.4	16.8	8.1					6.9	
9/24/2020						0.69 (J)			
9/25/2020				6.1					
3/1/2021						0.88 (J)			
3/2/2021				6			2.3		2.6
3/3/2021	4.4	9.6	9		7.8			7	
3/4/2021									
8/19/2021	4.9		8.9	6.7		1		7.5	
8/20/2021									
8/26/2021					8.5		2.4		6
8/27/2021		18.2							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	5.1	16	9.3					7.2	
2/10/2022				6.2			2.4		4.9
2/11/2022					7.7	2.8			
8/30/2022			10.2				2.4		5.7
8/31/2022	4.8	13.9		5.8	8	1.1		6.9	
9/1/2022									
2/7/2023	6.6		10.6						5.2
2/8/2023		14.7		6.1		0.96 (J)		7.5	
2/9/2023					8.9		2.9		
8/2/2023									
8/15/2023	4.6		9.6	6	7.5		2.2	6.8	4.8
8/16/2023		20.3				0.9 (J)			
8/17/2023									
2/20/2024	4.3	13.8	9.7		8.5	0.69 (J)	2.5	7	5.1
2/21/2024									
2/22/2024									
2/23/2024				7.1					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			4.4	5.2	<1				
6/8/2016						110	3.2	81	26
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9	4.7		0.08 (J)				
7/28/2016				5.1					
8/1/2016						96	3.6	75	27
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7	4.8						
9/19/2016	1.8			4.8	0.08 (J)				
9/20/2016						100	5.6	78	21
9/21/2016									
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	0.69 (J)	1.9	5.3	5					
11/4/2016									
11/7/2016						100	5.4	81	24
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<1	1.7	5.2						
1/12/2017									
1/13/2017				4.3	<1				
1/16/2017									
1/18/2017						100	3.5	95	
1/19/2017									25
2/21/2017						96		80	
2/22/2017									24
2/23/2017							4.9		
2/24/2017									
3/1/2017	1.8	<1							
3/2/2017			5						
3/3/2017									
3/6/2017				4.5	<1				
3/7/2017									
3/8/2017									
4/26/2017	1.6	1.9		4.9	<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			5						

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
5/3/2017						100			
5/5/2017									
5/8/2017							3.9	84	23
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	5.5	<1				
6/30/2017							5		23
7/5/2017									
7/7/2017									
7/10/2017						100		84	
7/11/2017									
7/17/2017									
10/3/2017				5.8					
10/4/2017		1.7	5.3		<1				
10/5/2017	1.6								
10/6/2017									23
10/9/2017							5.1		
10/10/2017						97		82	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				6.1					
6/6/2018					0.049 (J)				
6/7/2018	0.68 (J)								
6/8/2018									
6/11/2018		0.95 (J)	5.2						
6/12/2018									18.1
6/13/2018						93.3	6.1	76.5	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1	1.5	6.1	7	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018						99	6.1	83.9	20.2
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							4.1		18.3

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
4/2/2019			5.1	3.8		94.5		77.6	
4/3/2019	0.82 (J)	1.3			0.12 (J)				
6/12/2019									
9/24/2019				1					
9/25/2019			5.5		<1	97		80.1	
9/26/2019	0.64 (J)	1					4.2		18.2
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020						99.4			
3/20/2020							5.2	84.7	21.1
3/24/2020	<1	0.99 (J)	5.4	3	<1				
3/25/2020									
9/22/2020									
9/23/2020	0.53 (J)	1.1	5.1						
9/24/2020				3.6	<1	92.3	3	85.6	16.6
9/25/2020									
3/1/2021									
3/2/2021						92.7			
3/3/2021	<1	1	5.2		<1		2.6	89.3	451 (o)
3/4/2021				4.5					
8/19/2021						86.5			
8/20/2021							2.9	84	18
8/26/2021		1.2							
8/27/2021	0.59 (J)		5.3		<1				
9/1/2021				5					
9/3/2021									
2/8/2022									16.3
2/9/2022	0.51 (J)	1.1	4.8	3.9	<1				
2/10/2022						86.5	2.4	81.8	
2/11/2022									
8/30/2022	0.78 (J)	1.3	4.7	3.2					
8/31/2022					<1	90.2		85.9	
9/1/2022							2.5		13.5
2/7/2023	0.78 (J)	1.2	4.9	3.8	<1				
2/8/2023									
2/9/2023						89.7	3.2	84.2	13.7
8/2/2023									
8/15/2023	0.51 (J)	0.88 (J)	4.6	4.1	<1				
8/16/2023									
8/17/2023						85.7	3.3	81.1	14.2
2/20/2024	<1		4.6	3.8	<1				
2/21/2024							3.8		13
2/22/2024						89.3		80.7	
2/23/2024		0.79 (J)							

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	8.7	5.2	33					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	7.5	4.5	32					
8/30/2016				160				
8/31/2016					29			
9/13/2016								
9/14/2016						9.4		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	8	<1 (*)	32					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						13		
11/7/2016		4.3	33					
11/8/2016	8.3							
11/14/2016				150				
11/28/2016					36			
12/15/2016						1.8		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						11		
1/18/2017	8	2.7						
1/19/2017			32					
2/21/2017		3						
2/22/2017	8.2		31		43			
2/23/2017								
2/24/2017				120				
3/1/2017								
3/2/2017								
3/3/2017						8.8		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						10		
5/1/2017								
5/2/2017								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	<1 (*)	<1 (*)						
5/8/2017			32	120	60			
5/26/2017						12		
6/27/2017								
6/28/2017						11		
6/29/2017								
6/30/2017								
7/5/2017	8.1		31					
7/7/2017		2.7						
7/10/2017								
7/11/2017				110				
7/17/2017					63			
10/3/2017						7.9		
10/4/2017								
10/5/2017	8.6		31					
10/6/2017								
10/9/2017		2.9						
10/10/2017				93				
10/11/2017							20	
10/12/2017								17
10/16/2017					62			
11/20/2017							24	71
1/10/2018								66
1/11/2018							23	
2/19/2018					64.6			57.2
2/20/2018							20.6	
4/2/2018				88.8				
4/3/2018							24.5	49.4
6/5/2018								
6/6/2018								
6/7/2018						8.8		
6/8/2018								
6/11/2018			30.6					
6/12/2018	8.2	2.9						
6/13/2018								
6/28/2018							22	43.8
8/6/2018					42.1			
8/7/2018							20.7	40.5
9/19/2018				75				
9/24/2018							21.2	39.7
9/25/2018								
9/26/2018								
10/1/2018						9.1		
10/2/2018			30.8					
10/3/2018	8	2.1						
2/25/2019					42.1			
3/26/2019								34.3
3/27/2019				65.9			17.7	
3/28/2019								
3/29/2019						9		
4/1/2019	8.2		30.4					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019		2.4						
4/3/2019								
6/12/2019					83.4			
9/24/2019						9.1		
9/25/2019			30					
9/26/2019	7.9	1.6						
10/8/2019				52.3	128			
10/9/2019							15	27.9
3/17/2020				71.6	98.6			
3/18/2020								
3/19/2020	9.1	1.7				12.4		
3/20/2020			33					
3/24/2020								25.2
3/25/2020							14.3	
9/22/2020				51.5	145			
9/23/2020						11.8		
9/24/2020	7.2	0.99 (J)	26.2				11.7	22.9
9/25/2020								
3/1/2021				51.6				
3/2/2021					156			
3/3/2021	8.6	4.9	26.6			10.6		
3/4/2021							12	21.5
8/19/2021				52.6				
8/20/2021	8.9	5.4	24.7		121			
8/26/2021							19.2	
8/27/2021						16.7		
9/1/2021								
9/3/2021								21.3
2/8/2022	8.1	10.5	22.9	50.9	107		14.6	17.9
2/9/2022						18		
2/10/2022								
2/11/2022								
8/30/2022					101	20.1		
8/31/2022				48			10.9	17.9
9/1/2022	7.6	13.4	21.2					
2/7/2023					82.4	17.8	9.7	
2/8/2023			23.7	50.5				17.5
2/9/2023	7.4	16						
8/2/2023			22.9					
8/15/2023				47.7	74.2	17.2	7.6	16.4
8/16/2023	7.8	16.2						
8/17/2023								
2/20/2024				51	75	23.1	8.6	17.2
2/21/2024	8.5	3.9						
2/22/2024			26.9					
2/23/2024								

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
6/1/2016	150	54	120						
6/2/2016				46	96	160	66	130	36
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	135	48							50
7/26/2016			94	54	92	177	78	141	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		67	105						
9/14/2016	127				102	187	73		
9/15/2016				54				153	
9/16/2016									
9/19/2016									35
9/20/2016									
9/21/2016									
11/1/2016	75		44					92	<25
11/2/2016				71	115	181			
11/3/2016									
11/4/2016		60					75		
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				45					
1/11/2017	148		107					159	
1/12/2017						202	86		
1/13/2017					67				
1/16/2017		65							47
1/18/2017									
1/19/2017									
2/21/2017									<25
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	182								
3/2/2017		61	98					117	
3/3/2017									
3/6/2017					159				
3/7/2017						257	108		
3/8/2017				178					
4/26/2017	92			52				181	55
4/27/2017		31	116						
4/28/2017									
5/1/2017					107	165			
5/2/2017							103		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		42	89			189	73		
6/28/2017	126							169	
6/29/2017					79				
6/30/2017				45					42
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		58	119			170	89		
10/4/2017	147							141	31
10/5/2017				40	95				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			127						
6/6/2018		96				151			
6/7/2018					90		142	95	
6/8/2018	158			114					
6/11/2018									59
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					116	144	86		
10/1/2018	138	60	117	50				165	
10/2/2018									57
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		87	87						
3/29/2019				63					
4/1/2019	19 (J)							149	54

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
4/2/2019									
4/3/2019					111	142	83		
6/12/2019									
9/24/2019		54	124			129	79		
9/25/2019	159			64	117			157	51
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020		35		57					
3/19/2020	148		116					146	47
3/20/2020									
3/24/2020						139	68		
3/25/2020					146				
9/22/2020					83	104	75		
9/23/2020	155	15	108					157	
9/24/2020									51
9/25/2020				54					
3/1/2021									23
3/2/2021				67		52	67		
3/3/2021	111	39	99		80			137	
3/4/2021									
8/19/2021		44	105	54				144	50
8/20/2021									
8/26/2021					93	123	86		
8/27/2021	155								
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	145	57	105					154	
2/10/2022				56		127	77		
2/11/2022					102				66
8/30/2022			116			148	86		
8/31/2022	137	46		51	92			141	33
9/1/2022									
2/7/2023		121	131			180			
2/8/2023	145			56				144	43
2/9/2023					124		59		
8/2/2023									
8/15/2023		65	121	69	99	219	76	231	
8/16/2023	148								48
8/17/2023									
2/20/2024	220	59	130 (D6)		140	639 (o)	137	294	55
2/21/2024									
2/22/2024									
2/23/2024				64					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-27S	YGWC-27I	YGWC-26S
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			38	28	60				
6/8/2016						220	210	190	200
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	35	94	74	74					
7/28/2016					81				
8/1/2016						211	209	191	191
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35			67					
9/19/2016		92	45		68				
9/20/2016						217	224	205	213
9/21/2016									
11/1/2016									
11/2/2016			53						
11/3/2016	48	104		41	61				
11/4/2016									
11/7/2016						301	291	264	284
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133		104					
1/12/2017									
1/13/2017			46		76				
1/16/2017									
1/18/2017						265 (D)		167 (D)	158 (D)
1/19/2017							215 (D)		
2/21/2017						158			137
2/22/2017							262		
2/23/2017								253	
2/24/2017									
3/1/2017	79	119							
3/2/2017				77					
3/3/2017									
3/6/2017			164		167				
3/7/2017									
3/8/2017									
4/26/2017	36	162	34		50				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				142					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-27S	YGWC-27I	YGWC-26S
5/3/2017									269
5/5/2017									
5/8/2017						207	187	174	
5/26/2017									
6/27/2017									
6/28/2017	45	98							
6/29/2017			68	53	94				
6/30/2017							209	193	
7/5/2017									
7/7/2017									
7/10/2017						219			183
7/11/2017									
7/17/2017									
10/3/2017					149				
10/4/2017	45		54	61					
10/5/2017		104							
10/6/2017							183		
10/9/2017								185	
10/10/2017						194			179
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018					109				
6/6/2018			79						
6/7/2018		68							
6/8/2018									
6/11/2018	74			70					
6/12/2018							208		
6/13/2018						228		219	196
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	63	109	73	86	122				
9/26/2018									
10/1/2018									
10/2/2018						227	206	227	191
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							221	198	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-27S	YGWC-27I	YGWC-26S
4/2/2019				72	134	223			224
4/3/2019	63	89	57						
6/12/2019									
9/24/2019					157				
9/25/2019			75	81		225			190
9/26/2019	72	126					225	198	
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020									194
3/20/2020						211	182	195	
3/24/2020	59	91	76	71	117				
3/25/2020									
9/22/2020									
9/23/2020	81	103		99					
9/24/2020			69		113	212	185	186	171
9/25/2020									
3/1/2021									
3/2/2021									154
3/3/2021	37	95	53	57		205	178	173	
3/4/2021					110				
8/19/2021									176
8/20/2021						224	169	196	
8/26/2021	31								
8/27/2021		112	67	93					
9/1/2021					137				
9/3/2021									
2/8/2022							159		
2/9/2022	60	103	72	81	131				
2/10/2022						207		190	168
2/11/2022									
8/30/2022	52	100		81	122				
8/31/2022			62			228			206
9/1/2022							124	193	
2/7/2023	55	96	89	78	163				
2/8/2023									
2/9/2023						366	116	189	196
8/2/2023									
8/15/2023	81	96	62	74	126				
8/16/2023									
8/17/2023						248	137	186	207
2/20/2024		129	164	77	156				
2/21/2024							149	194	
2/22/2024						215			188
2/23/2024	52								

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28S	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	150	210	240					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	155	202	226					
8/30/2016				319				
8/31/2016					209			
9/13/2016								
9/14/2016						152		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	138	216	214					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						148		
11/7/2016	291	399						
11/8/2016			229					
11/14/2016				280				
11/28/2016					102			
12/15/2016						191		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						180		
1/18/2017		215 (D)	243 (D)					
1/19/2017	145 (D)							
2/21/2017		198						
2/22/2017	185		310		164			
2/23/2017								
2/24/2017				162				
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								

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28S	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017		347	289					
5/8/2017	114			194	145			
5/26/2017						223		
6/27/2017								
6/28/2017						166		
6/29/2017								
6/30/2017								
7/5/2017	136		217					
7/7/2017		236						
7/10/2017								
7/11/2017				193				
7/17/2017					185			
10/3/2017						153		
10/4/2017								
10/5/2017	139		221					
10/6/2017								
10/9/2017		204						
10/10/2017				175				
10/11/2017							68	
10/12/2017								74
10/16/2017					218			
11/20/2017							139	179
1/10/2018								140
1/11/2018							153	
2/19/2018					173			119
2/20/2018							87	
4/2/2018				192				
4/3/2018							85	106
6/5/2018								
6/6/2018								
6/7/2018						146		
6/8/2018								
6/11/2018	156							
6/12/2018		243	234					
6/13/2018								
6/28/2018							88	112
8/6/2018					158			
8/7/2018							89	103
9/19/2018				186				
9/24/2018							82	107
9/25/2018								
9/26/2018								
10/1/2018						155		
10/2/2018	154							
10/3/2018		237	232					
2/25/2019					92			
3/26/2019								90
3/27/2019				170			75	
3/28/2019								
3/29/2019						150		
4/1/2019	147		238					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/2/2024 9:57 AM View: Appendix III

Plant Yates Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28S	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019		<25						
4/3/2019								
6/12/2019					226			
9/24/2019						146		
9/25/2019	162							
9/26/2019		239	241					
10/8/2019				172	276			
10/9/2019							119	98
3/17/2020				165	185			
3/18/2020								
3/19/2020		202	212			148		
3/20/2020	137							
3/24/2020								84
3/25/2020							158	
9/22/2020				141	281			
9/23/2020						161		
9/24/2020	133	226	209				170	77
9/25/2020								
3/1/2021				145				
3/2/2021					296			
3/3/2021	110	217	184			138		
3/4/2021							168	57
8/19/2021				134				
8/20/2021	110	192	194		254			
8/26/2021							249	
8/27/2021						150		
9/1/2021								
9/3/2021								88
2/8/2022	120	216	206	151	283		248	93
2/9/2022						156		
2/10/2022								
2/11/2022								
8/30/2022					244	153		
8/31/2022				116			242	92
9/1/2022	128	225	186					
2/7/2023					207	159	224	
2/8/2023	158			141				115
2/9/2023		226	184					
8/2/2023	152							
8/15/2023				186	230	157	225	83
8/16/2023		233	171					
8/17/2023								
2/20/2024				159	214	159	233	109
2/21/2024		235	213					
2/22/2024	146							
2/23/2024								

ND substitution: RL or RL/2 if <15% NDs.

FIGURE E.

Appendix III Trend Tests - Significant Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:59 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWC-26I	-0.03677	-123	-92	Yes	22	0	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.01731	102	92	Yes	22	0	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	-0.06015	-111	-92	Yes	22	0	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.01889	102	74	Yes	19	5.263	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01292	-120	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0365	-113	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.3595	-121	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.3619	-106	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.464	-179	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	-0.2879	-93	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.3666	-125	-74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.7862	183	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.09154	113	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.09892	145	92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.6099	76	74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2696	101	74	Yes	19	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.5923	-176	-92	Yes	22	0	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP

Appendix III Trend Tests - All Results

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 9:59 AM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0002056	-33	-92	No	22	9.091	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001069	59	92	No	22	40.91	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-22	-92	No	22	68.18	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	6	92	No	22	81.82	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-10	-92	No	22	86.36	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	24	92	No	22	63.64	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-11	-92	No	22	90.91	n/a	0.01	NP
Boron (mg/L)	**YGWC-26I**	**-0.03677**	**-123**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01731**	**102**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-27I	0.03489	49	92	No	22	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-27S**	**-0.06015**	**-111**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-28I	-0.08449	-76	-92	No	22	0	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	-0.0293	-40	-92	No	22	0	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0003761	-34	-74	No	19	5.263	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0005659	73	92	No	22	18.18	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-10	-92	No	22	81.82	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.0008073	63	92	No	22	27.27	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-3	-92	No	22	90.91	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-21	-92	No	22	59.09	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01889**	**102**	**74**	**Yes**	**19**	**5.263**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01292**	**-120**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	19	92	No	22	72.73	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.000669	82	92	No	22	22.73	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	0	-4	-92	No	22	68.18	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWC-29IB	-0.01629	-63	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.09834	63	92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-38	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01344	-44	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.01682	-50	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.02485	-61	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.0365**	**-113**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-3I (bg)	-0.01926	-86	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWC-26I**	**-0.3595**	**-121**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.3619**	**-106**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-27I	-0.06268	-61	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWC-27S**	**-1.464**	**-179**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-28S**	**-0.2879**	**-93**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3666**	**-125**	**-74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.7862**	**183**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.09154**	**113**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.08677	60	92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.09892**	**145**	**92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.06772	-59	-92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-39 (bg)**	**0.6099**	**76**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2696**	**101**	**74**	**Yes**	**19**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.06138	75	92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5923**	**-176**	**-92**	**Yes**	**22**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.01601	22	92	No	22	0	n/a	0.01	NP
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**

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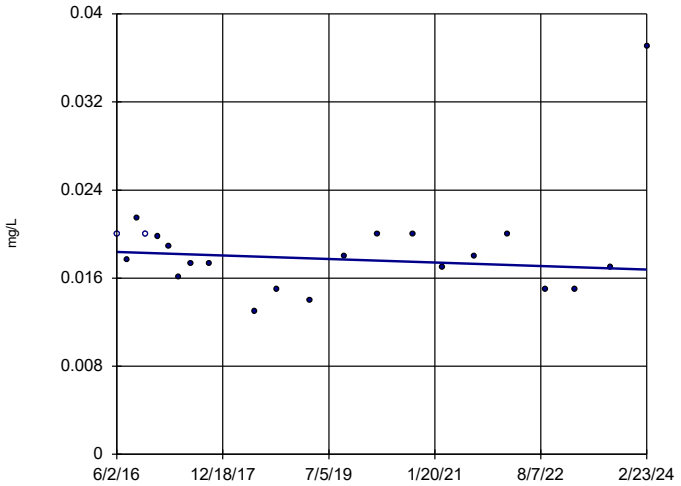
Sen's Slope Estimator

YGWA-14S (bg)



n = 22

Slope = -0.0002056 units per year.

Mann-Kendall statistic = -33
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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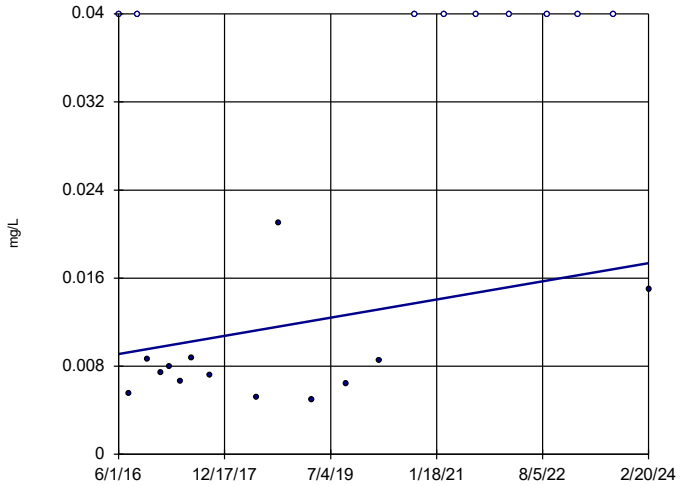
Sen's Slope Estimator

YGWA-1D (bg)



n = 22

Slope = 0.001069 units per year.

Mann-Kendall statistic = 59
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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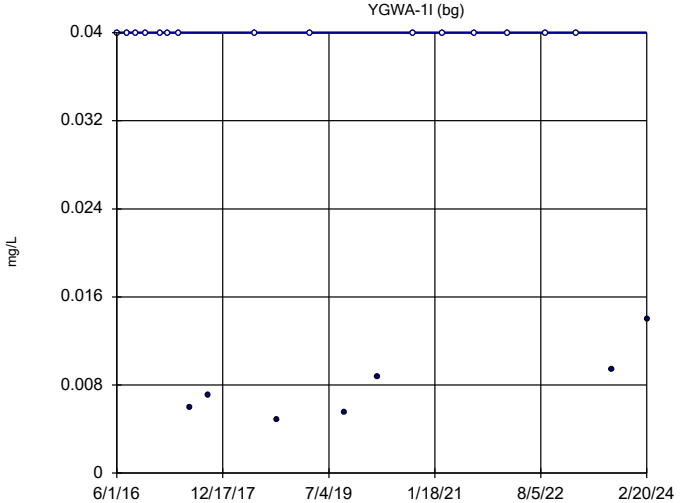
Sen's Slope Estimator

YGWA-1I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -22
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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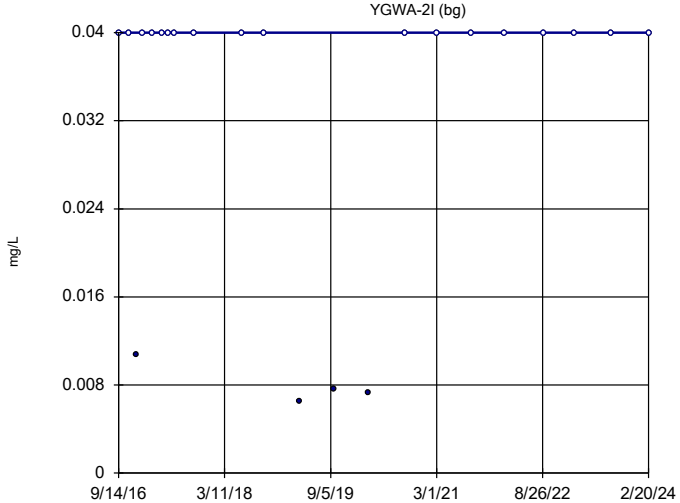
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 6
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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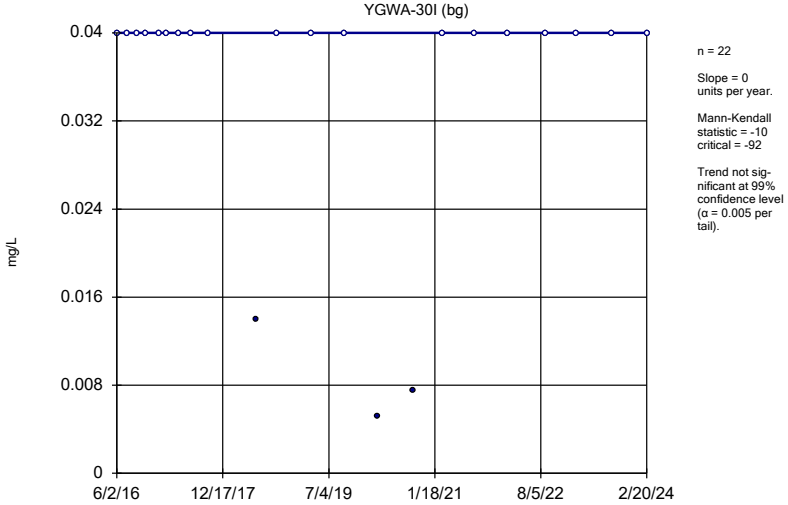
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -10
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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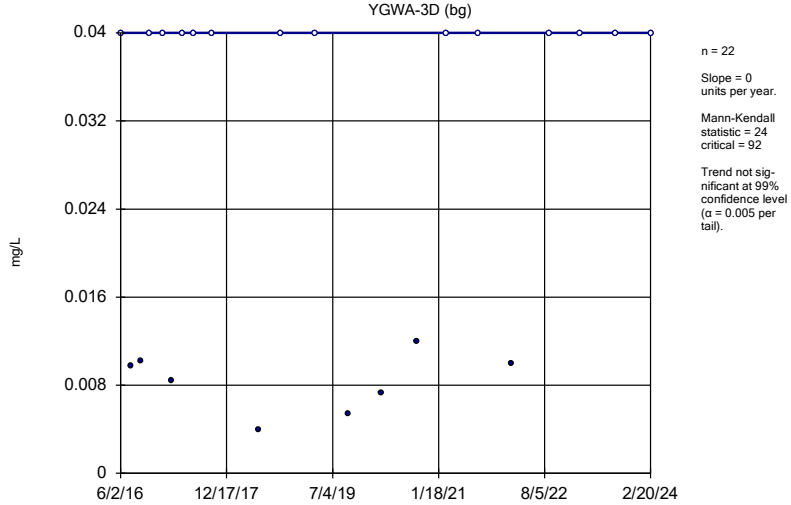
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 24
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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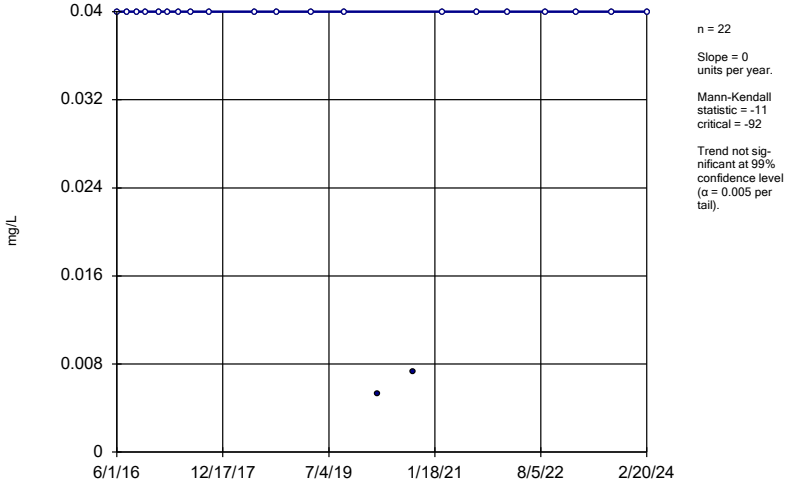
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -11
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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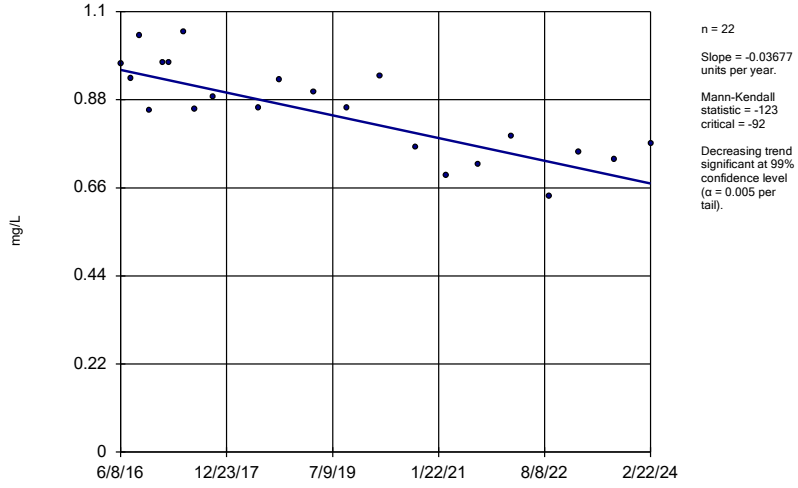
Sen's Slope Estimator

YGWC-26I



n = 22

Slope = -0.03677 units per year.

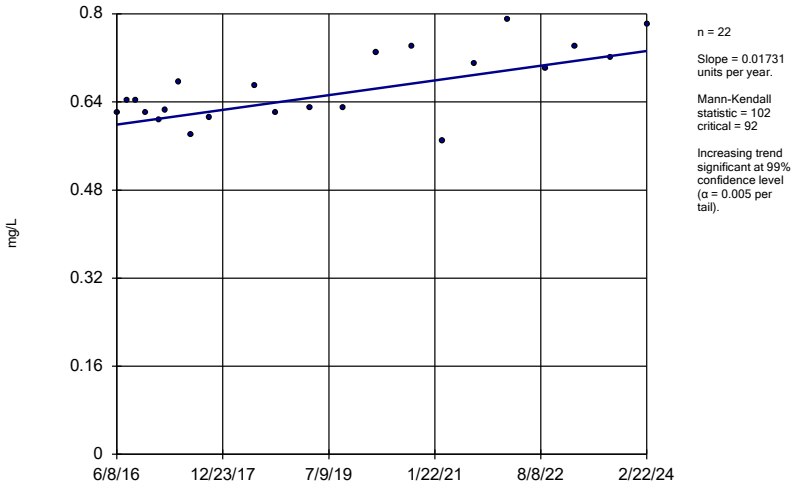
Mann-Kendall statistic = -123
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S



n = 22

Slope = 0.01731 units per year.

Mann-Kendall statistic = 102
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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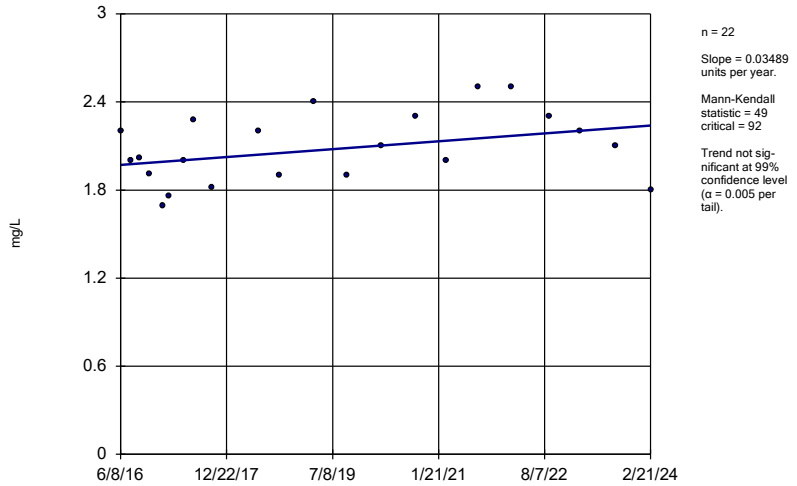
Sen's Slope Estimator

YGWC-27I



n = 22

Slope = 0.03489 units per year.

Mann-Kendall statistic = 49
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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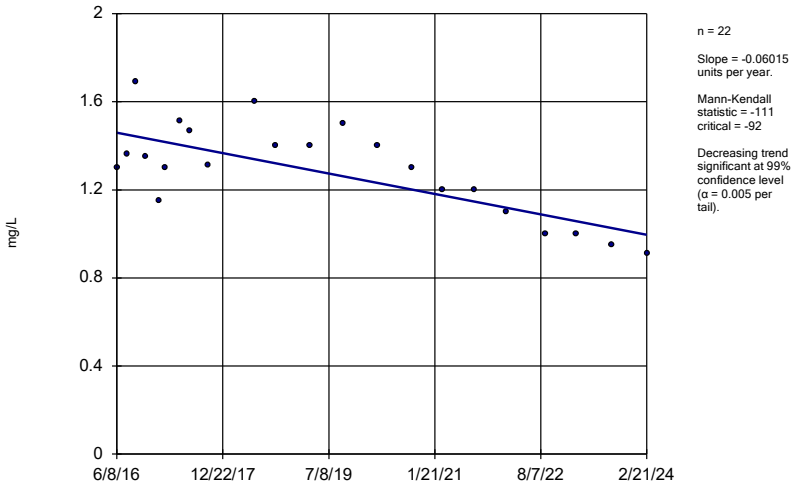
Sen's Slope Estimator

YGWC-27S



n = 22

Slope = -0.06015 units per year.

Mann-Kendall statistic = -111
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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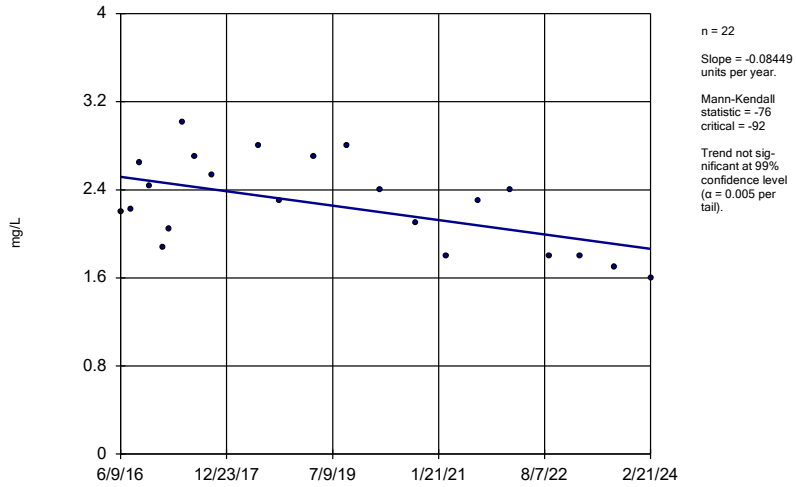
Sen's Slope Estimator

YGWC-28I



n = 22

Slope = -0.08449 units per year.

Mann-Kendall statistic = -76
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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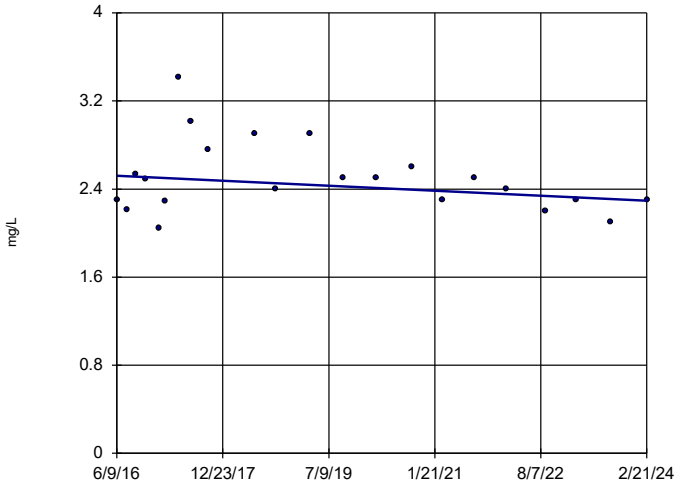
Sen's Slope Estimator

YGWC-28S



n = 22

Slope = -0.0293 units per year.

Mann-Kendall statistic = -40 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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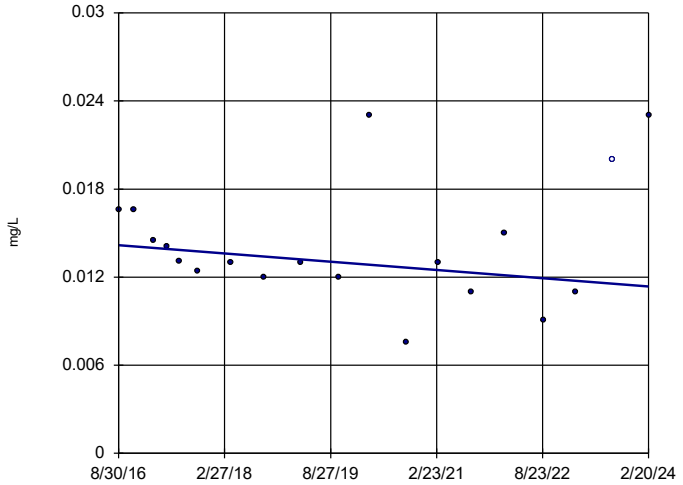
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 19

Slope = -0.0003761 units per year.

Mann-Kendall statistic = -34 critical = -74

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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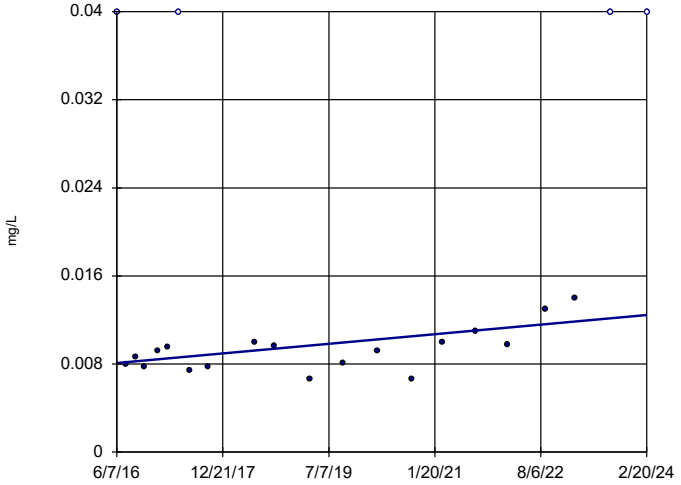
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 0.0005659 units per year.

Mann-Kendall statistic = 73 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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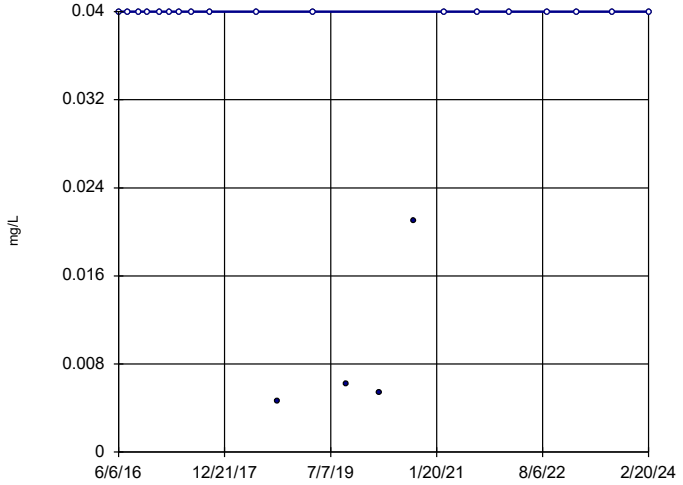
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -10 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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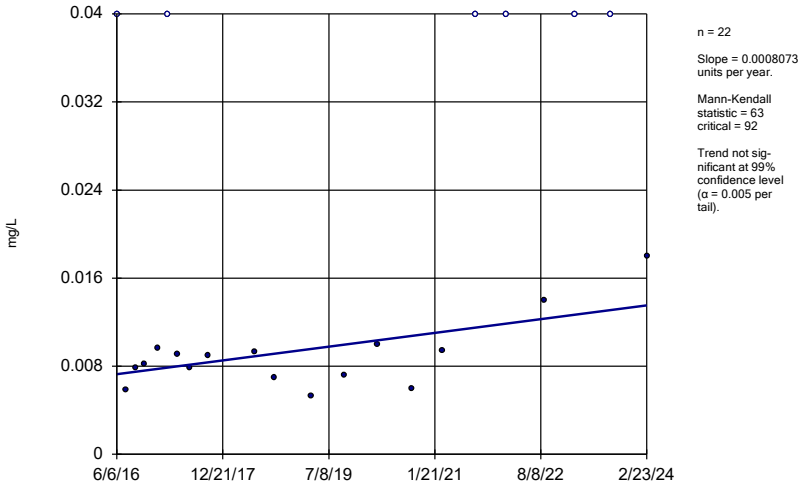
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 22

Slope = 0.0008073 units per year.

Mann-Kendall statistic = 63
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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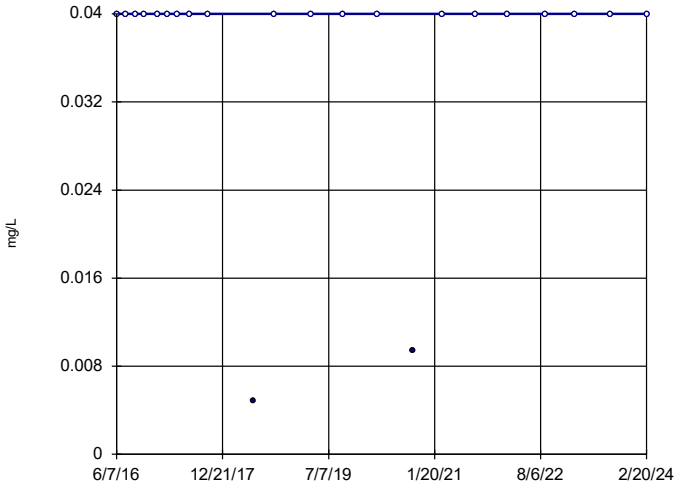
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -3
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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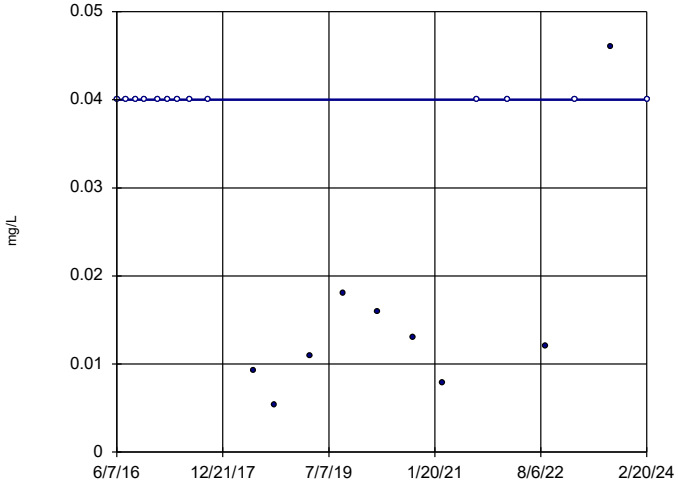
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -21
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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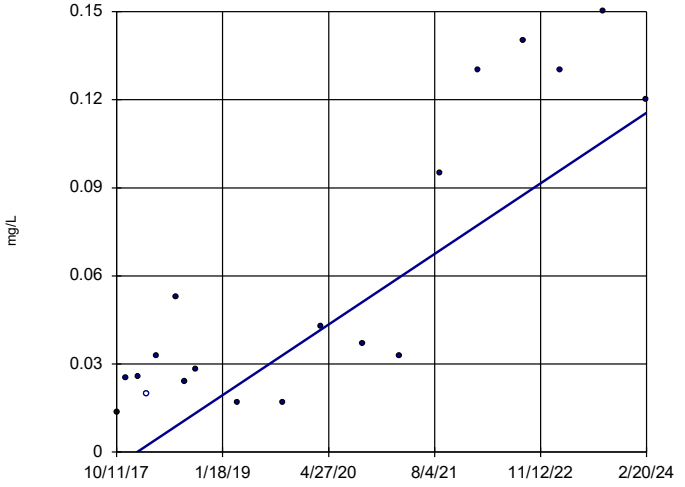
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = 0.01889 units per year.

Mann-Kendall statistic = 102
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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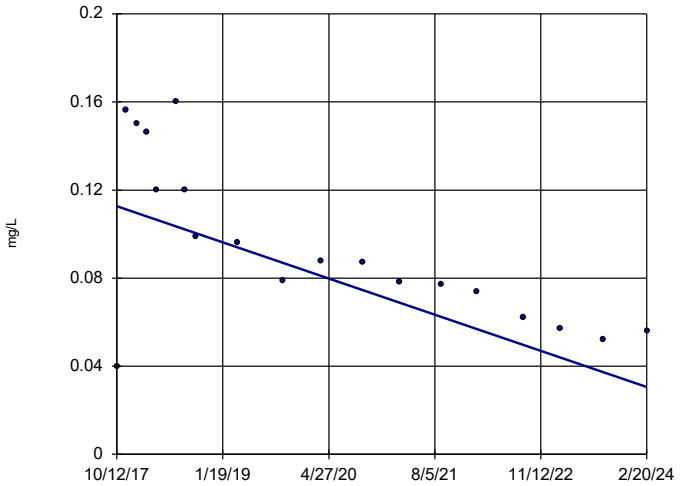
Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = -0.01292 units per year.

Mann-Kendall statistic = -120
critical = -74

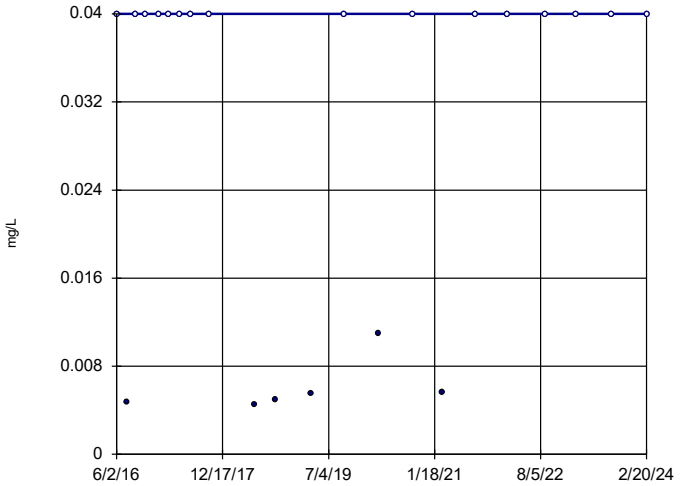
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = 19
critical = 92

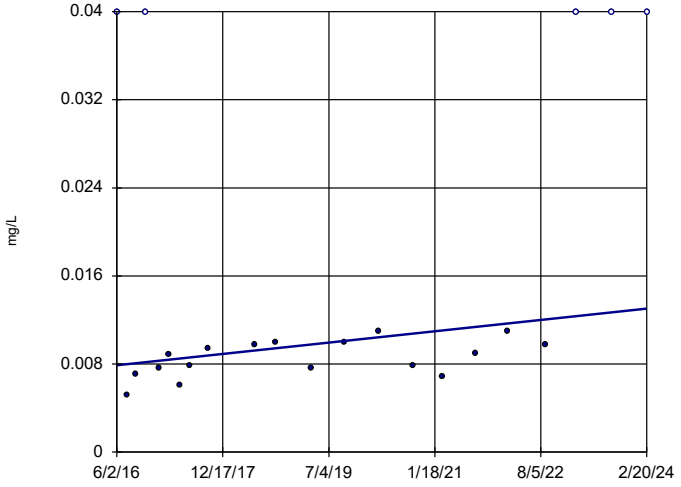
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = 0.000669 units per year.

Mann-Kendall statistic = 82
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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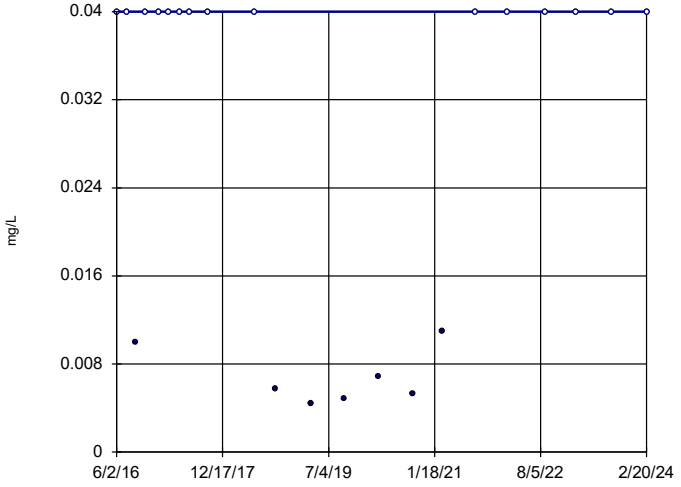
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -4
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

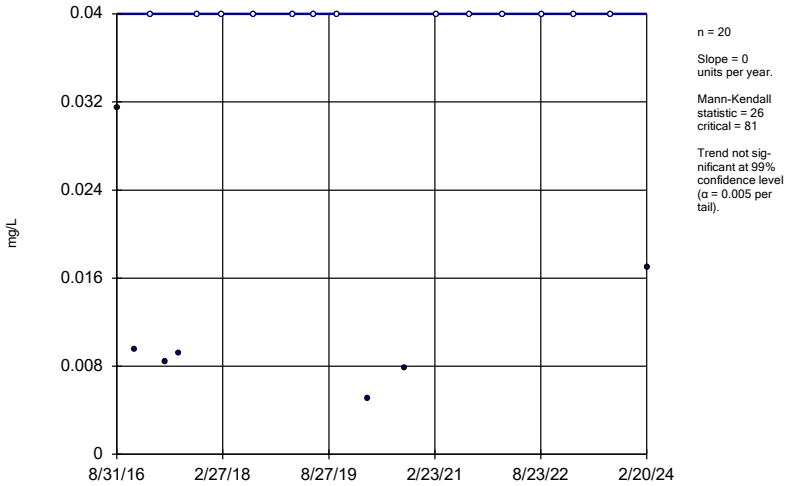
Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 26 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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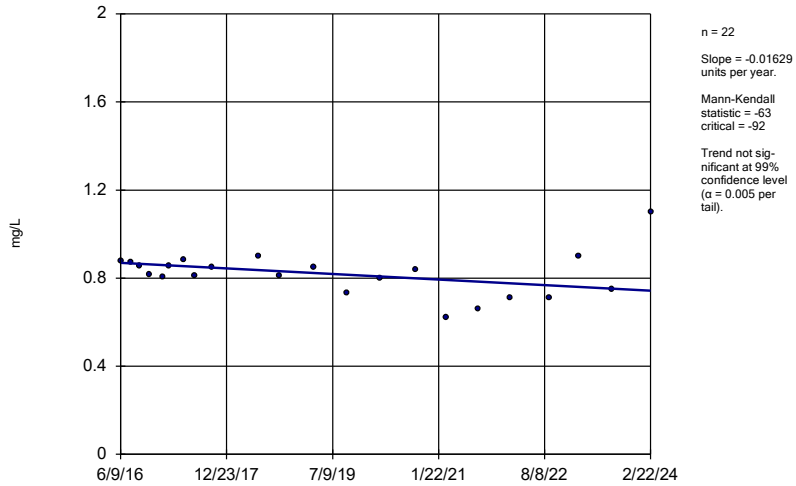
Sen's Slope Estimator

YGWC-29IB



n = 22

Slope = -0.01629 units per year.

Mann-Kendall statistic = -63 critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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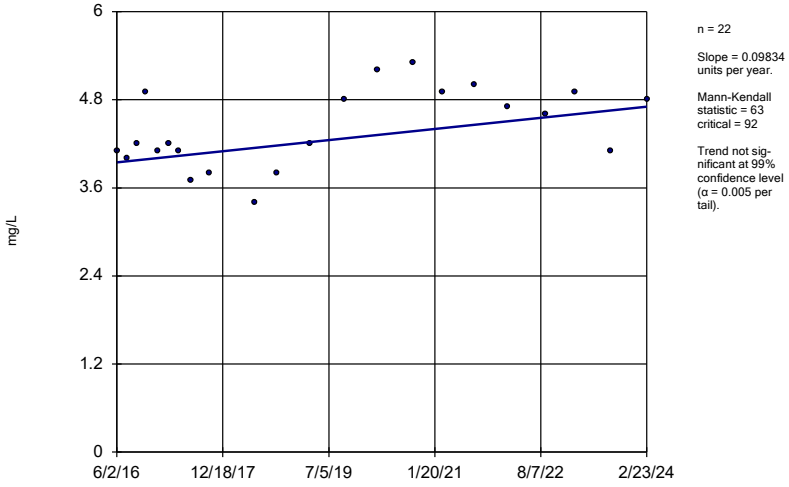
Sen's Slope Estimator

YGWA-14S (bg)



n = 22

Slope = 0.09834 units per year.

Mann-Kendall statistic = 63 critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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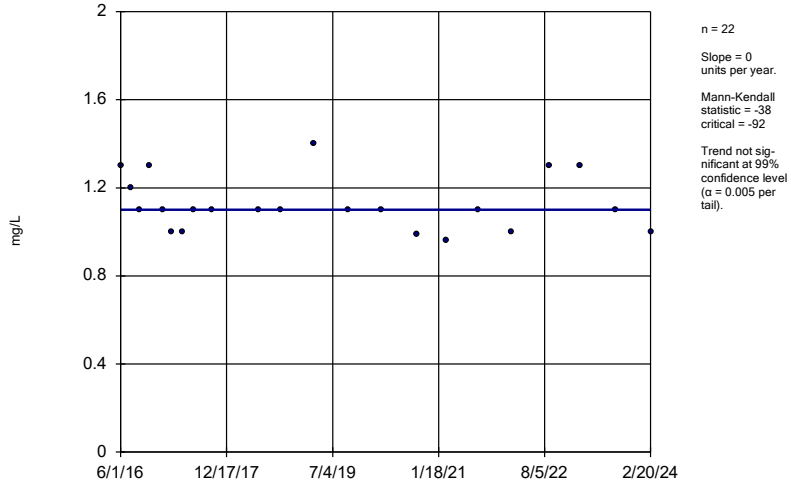
Sen's Slope Estimator

YGWA-1D (bg)



n = 22

Slope = 0 units per year.

Mann-Kendall statistic = -38 critical = -92

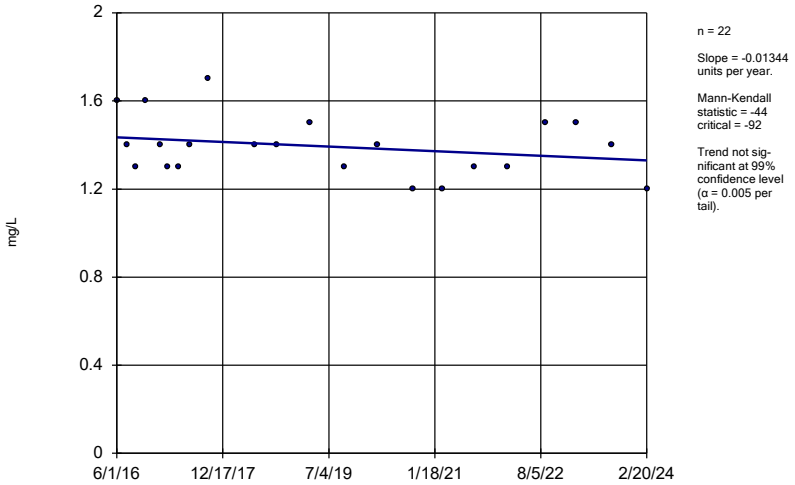
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1I (bg)



n = 22

Slope = -0.01344 units per year.

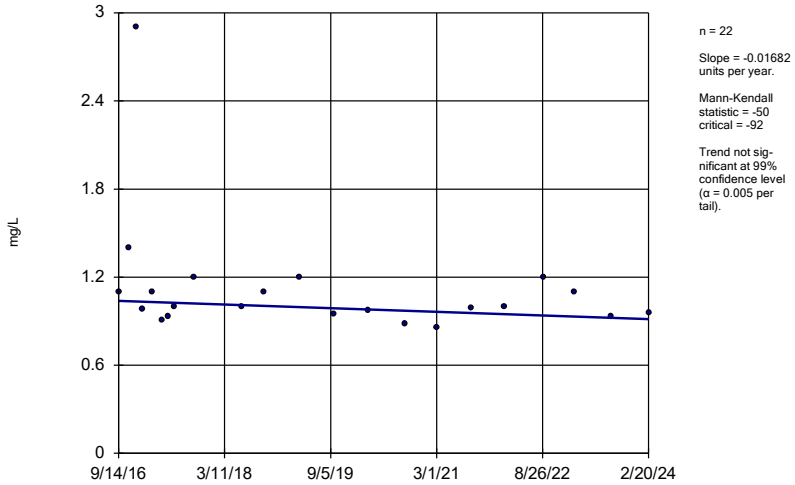
Mann-Kendall statistic = -44
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-2I (bg)



n = 22

Slope = -0.01682 units per year.

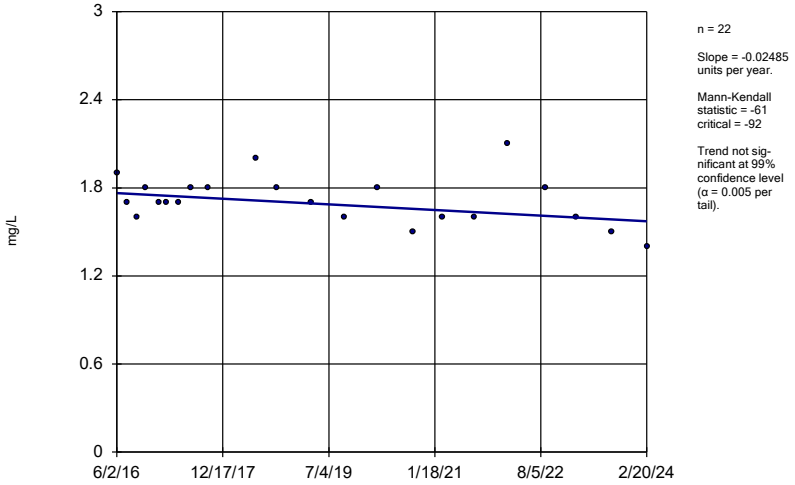
Mann-Kendall statistic = -50
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)



n = 22

Slope = -0.02485 units per year.

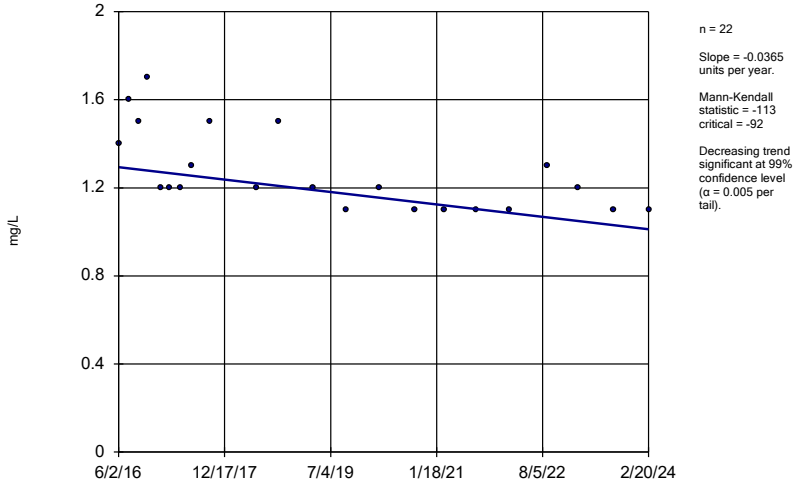
Mann-Kendall statistic = -61
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)



n = 22

Slope = -0.0365 units per year.

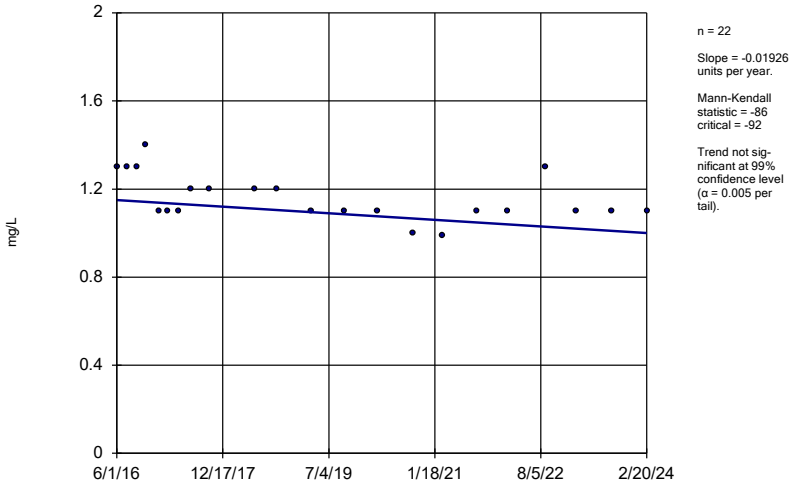
Mann-Kendall statistic = -113
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)



n = 22

Slope = -0.01926 units per year.

Mann-Kendall statistic = -86
critical = -92

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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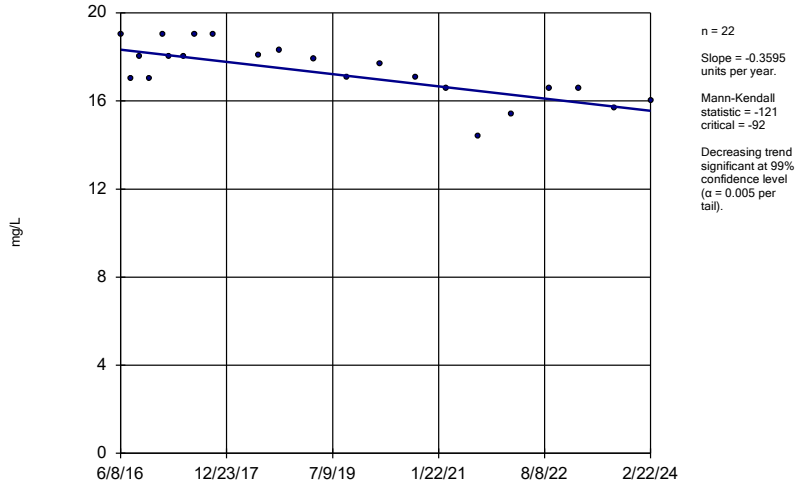
Sen's Slope Estimator

YGWC-26I



n = 22

Slope = -0.3595 units per year.

Mann-Kendall statistic = -121
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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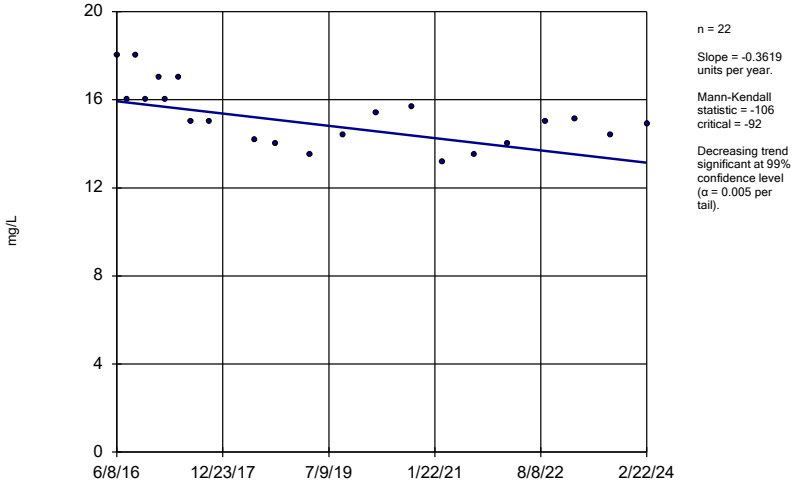
Sen's Slope Estimator

YGWC-26S



n = 22

Slope = -0.3619 units per year.

Mann-Kendall statistic = -106
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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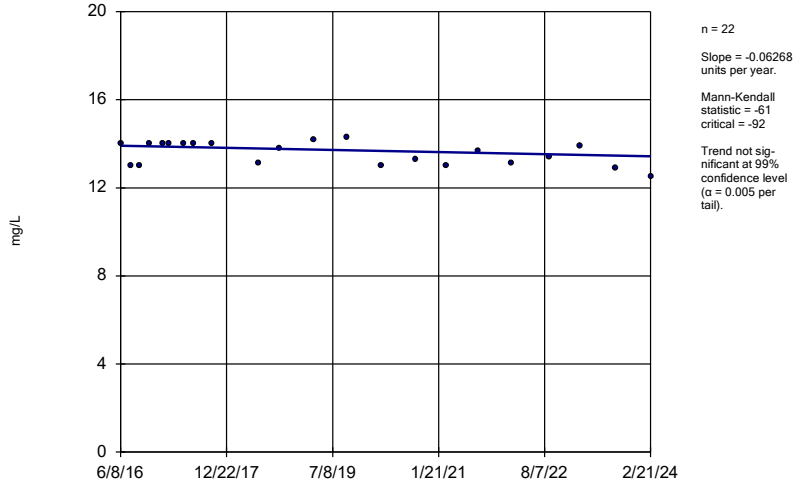
Sen's Slope Estimator

YGWC-27I



n = 22

Slope = -0.06268 units per year.

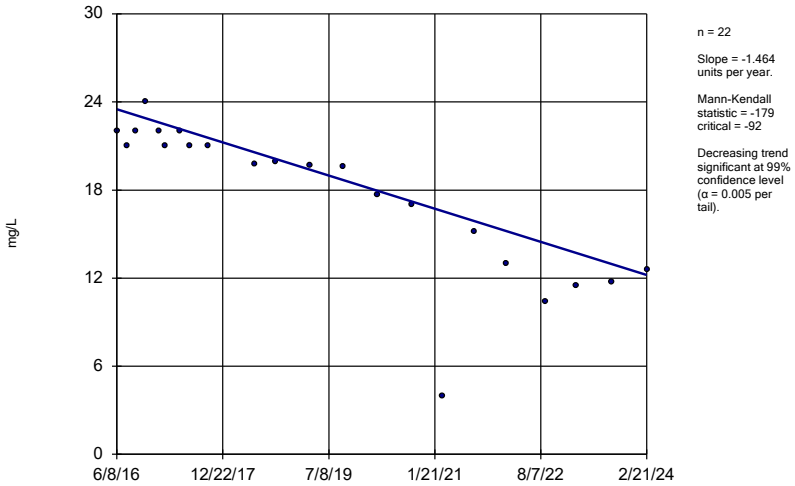
Mann-Kendall statistic = -61
critical = -92

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-27S



n = 22

Slope = -1.464 units per year.

Mann-Kendall statistic = -179 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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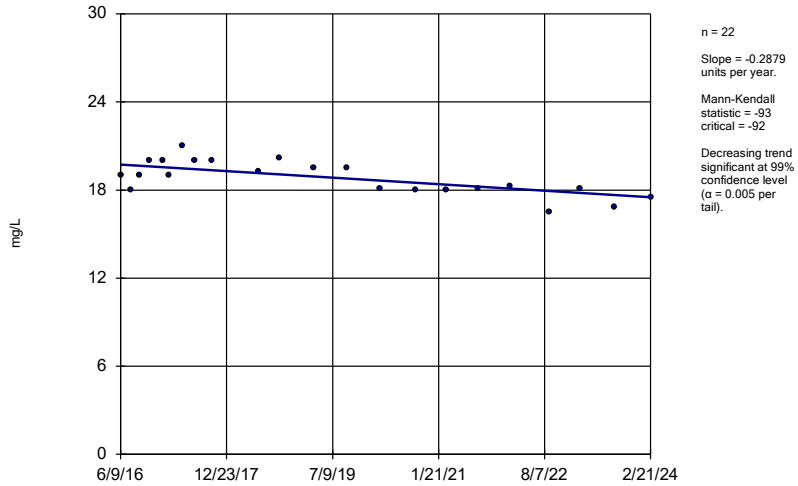
Sen's Slope Estimator

YGWC-28S



n = 22

Slope = -0.2879 units per year.

Mann-Kendall statistic = -93 critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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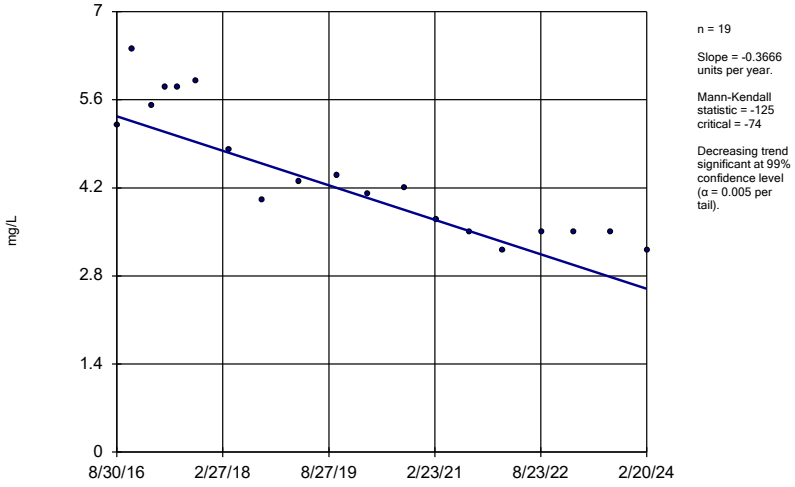
Sen's Slope Estimator

YGWA-47 (bg)



n = 19

Slope = -0.3666 units per year.

Mann-Kendall statistic = -125 critical = -74

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

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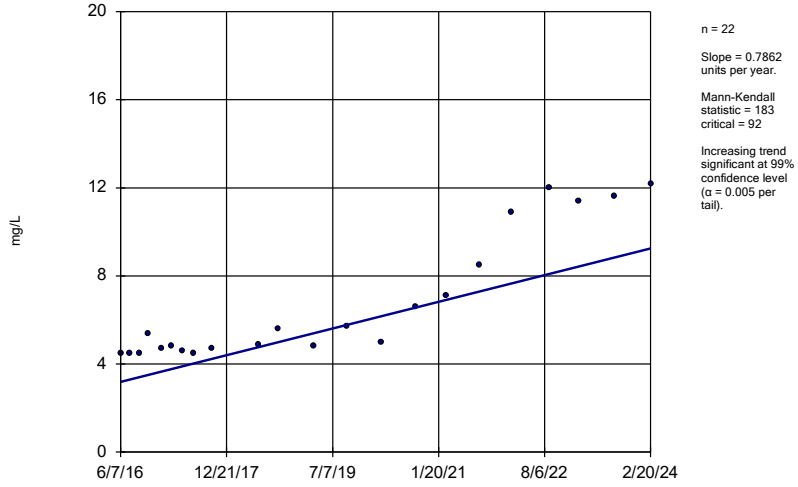
Sen's Slope Estimator

YGWA-17S (bg)



n = 22

Slope = 0.7862 units per year.

Mann-Kendall statistic = 183 critical = 92

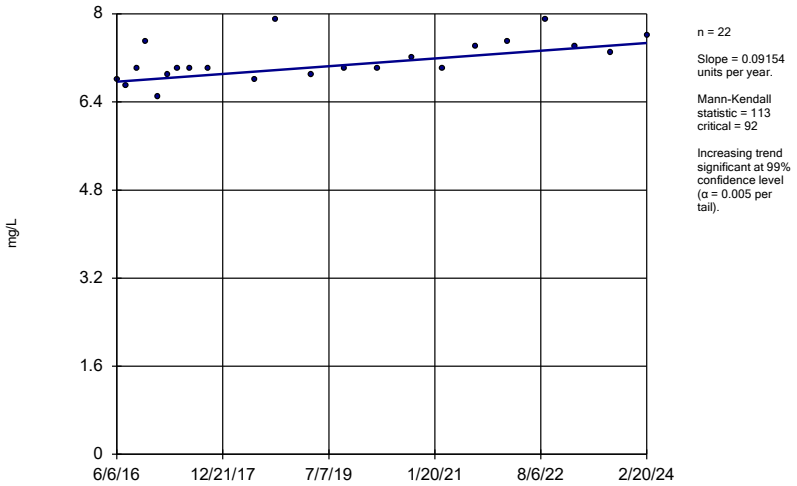
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests

Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18I (bg)



n = 22

Slope = 0.09154 units per year.

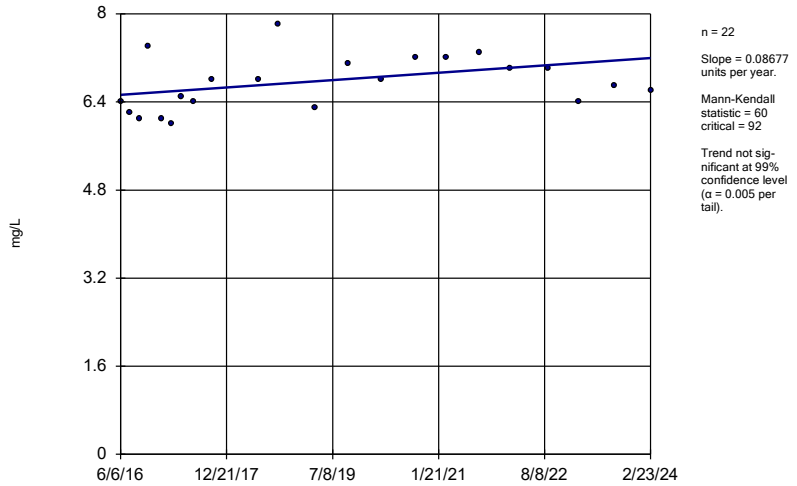
Mann-Kendall statistic = 113
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18S (bg)



n = 22

Slope = 0.08677 units per year.

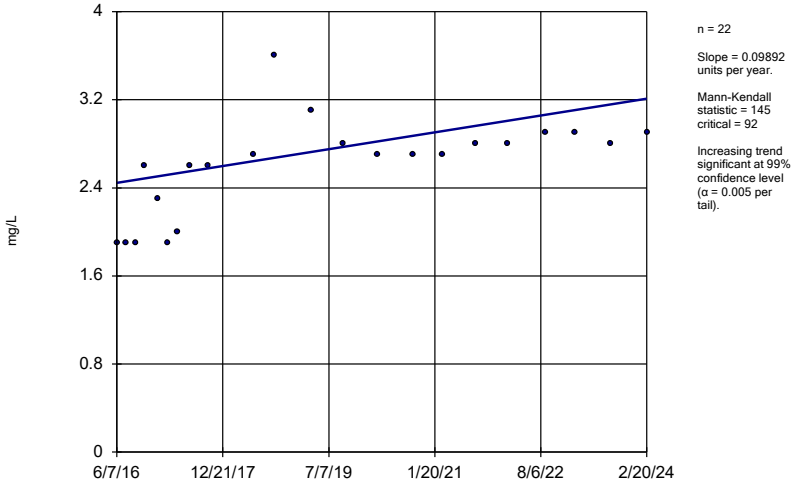
Mann-Kendall statistic = 60
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-20S (bg)



n = 22

Slope = 0.09892 units per year.

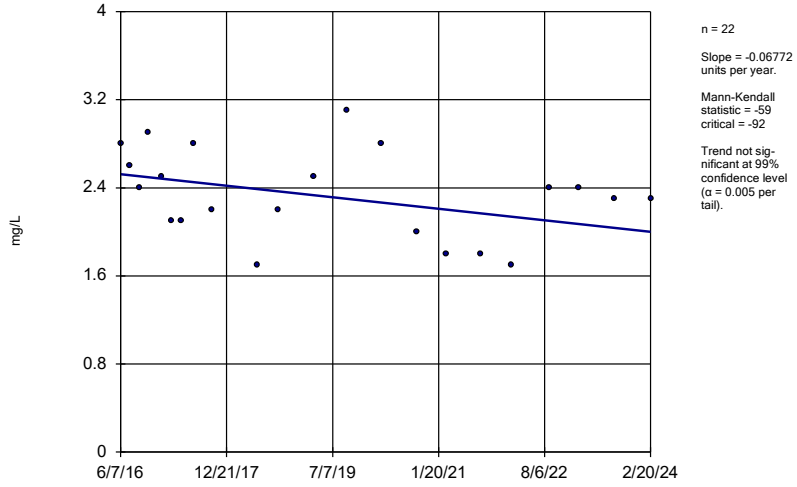
Mann-Kendall statistic = 145
critical = 92

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21I (bg)



n = 22

Slope = -0.06772 units per year.

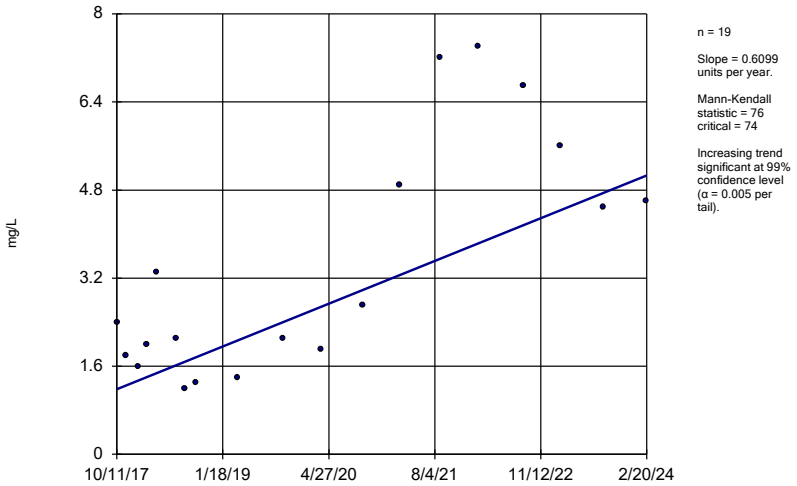
Mann-Kendall statistic = -59
critical = -92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-39 (bg)



n = 19

Slope = 0.6099 units per year.

Mann-Kendall statistic = 76
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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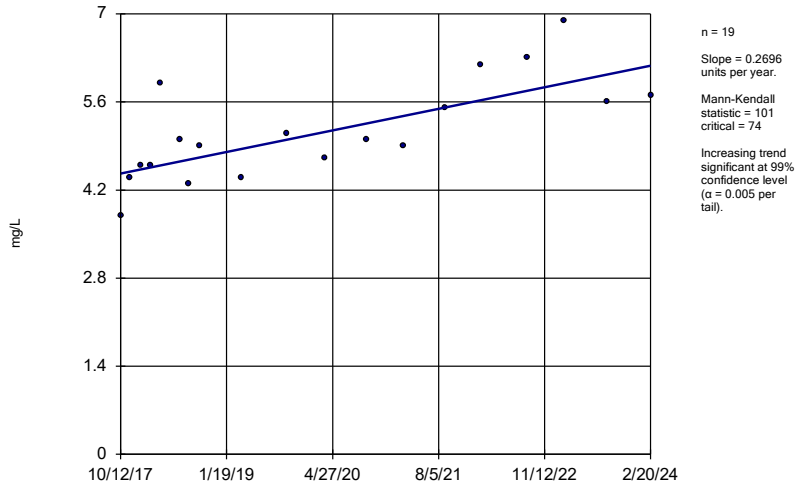
Sen's Slope Estimator

YGWA-40 (bg)



n = 19

Slope = 0.2696 units per year.

Mann-Kendall statistic = 101
critical = 74

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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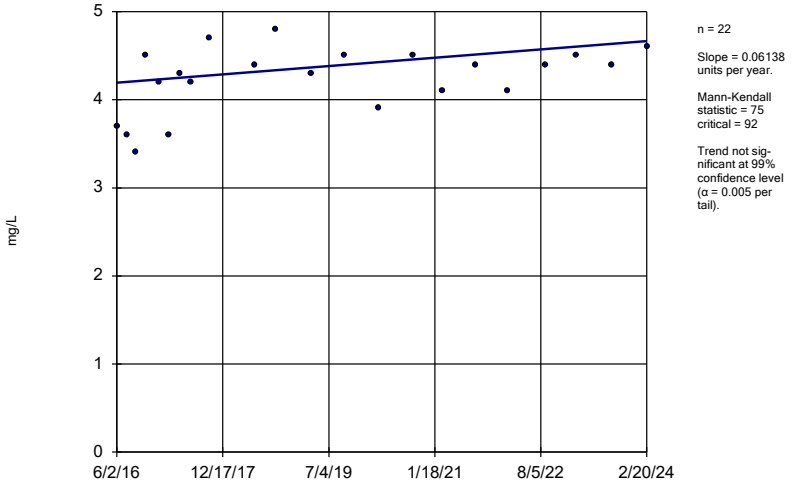
Sen's Slope Estimator

YGWA-4I (bg)



n = 22

Slope = 0.06138 units per year.

Mann-Kendall statistic = 75
critical = 92

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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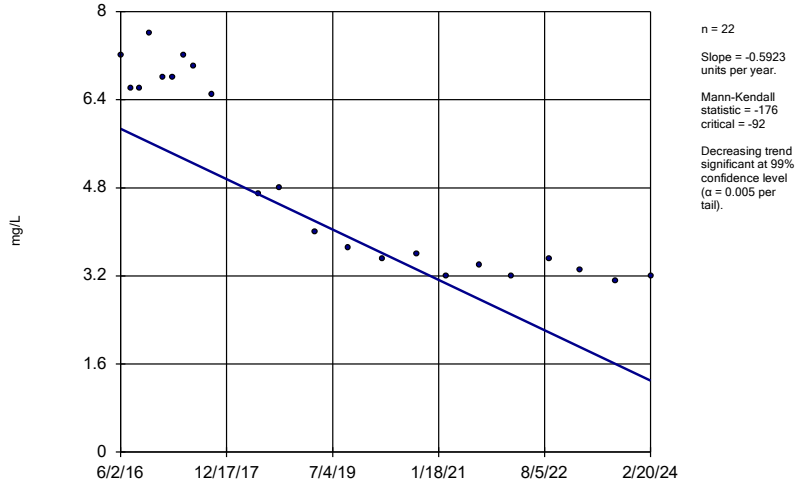
Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = -0.5923 units per year.

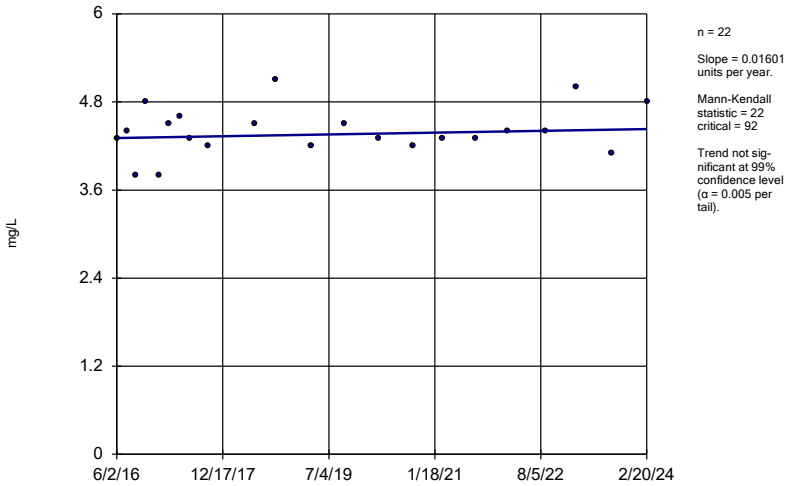
Mann-Kendall statistic = -176
critical = -92

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5I (bg)



n = 22

Slope = 0.01601 units per year.

Mann-Kendall statistic = 22
critical = 92

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

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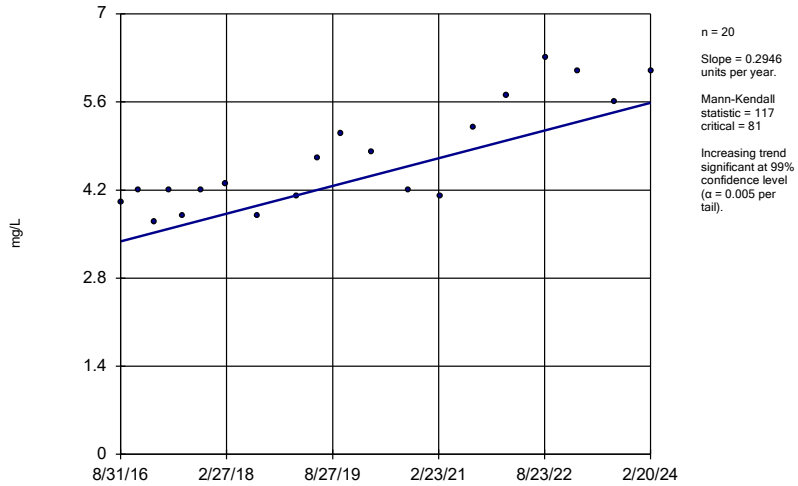
Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0.2946 units per year.

Mann-Kendall statistic = 117
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 5/2/2024 9:58 AM View: Appendix III - Trend Tests
Plant Yates Data: Yates Ash Pond 2

FIGURE F.

Upper Tolerance Limits Summary Table

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:03 AM

Constituent	Upper Lim.	Lower Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	429	n/a	n/a	87.88	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	477	n/a	n/a	75.26	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	n/a	477	n/a	n/a	2.306	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	n/a	461	n/a	n/a	80.04	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	n/a	461	n/a	n/a	95.01	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	n/a	429	n/a	n/a	81.59	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	471	n/a	n/a	68.79	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	456	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	476	n/a	n/a	63.45	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	n/a	431	n/a	n/a	87.24	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	456	n/a	n/a	27.19	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	n/a	385	n/a	n/a	89.35	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	n/a	420	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	n/a	459	n/a	n/a	92.81	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	395	n/a	n/a	97.47	n/a	n/a	NaN	NP Inter(NDs)

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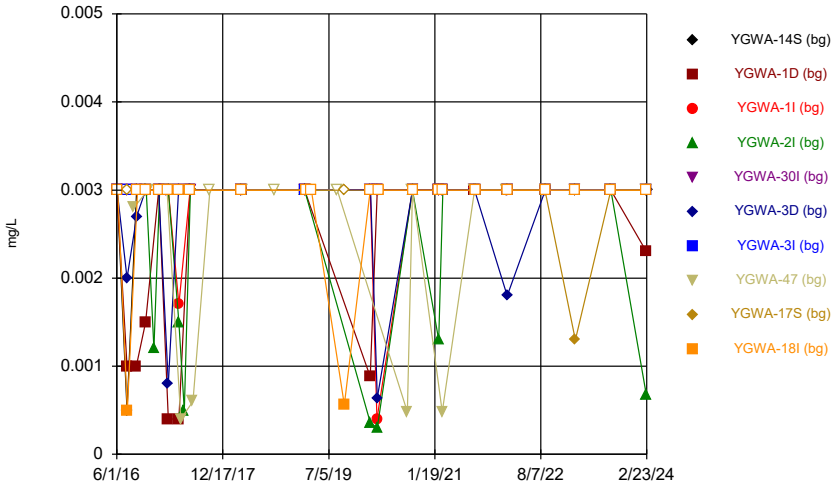
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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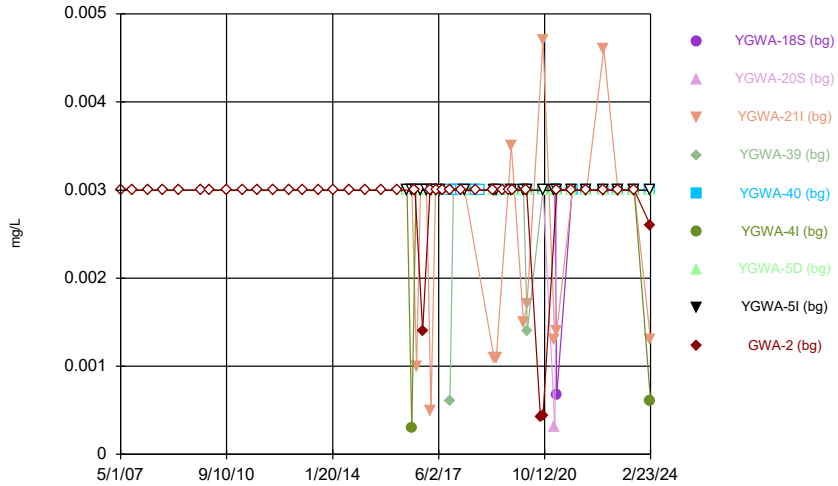
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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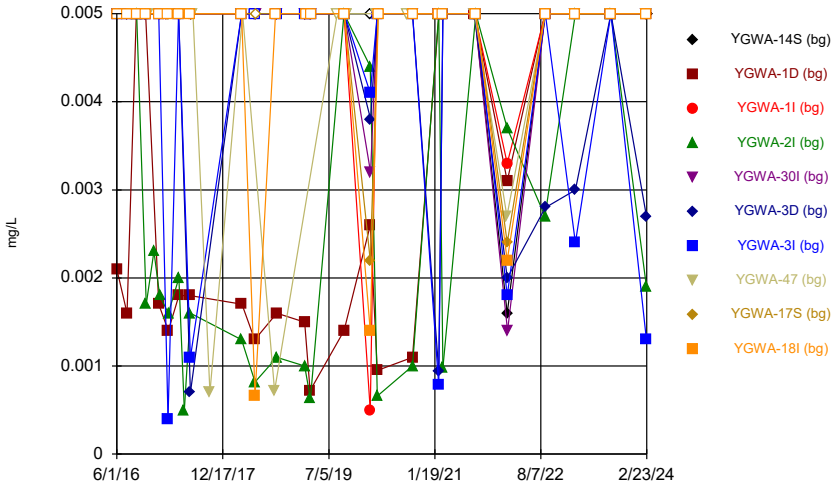
Time Series



Constituent: Arsenic Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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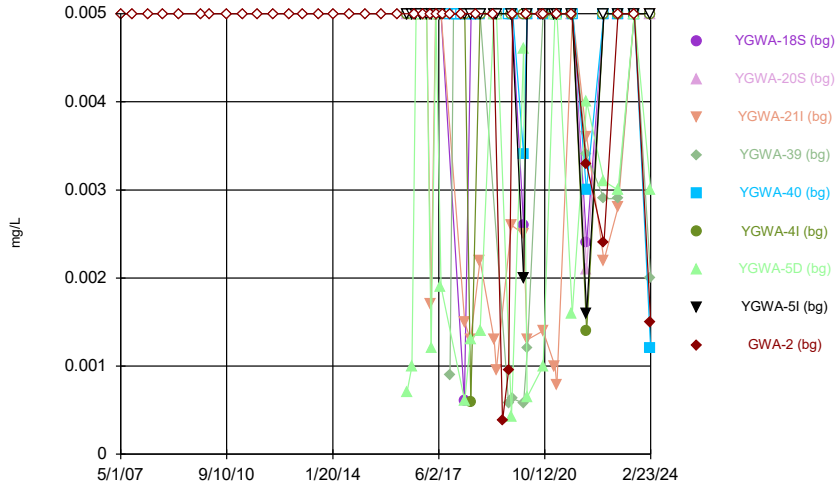
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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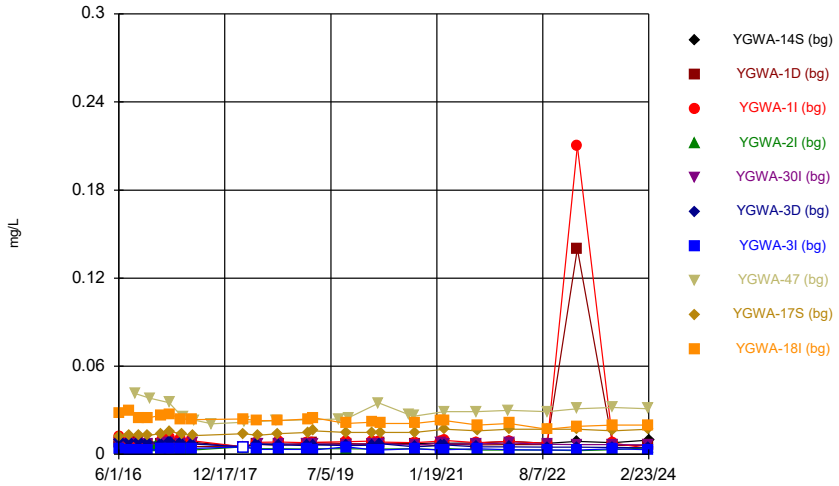
Hollow symbols indicate censored values.

Time Series



Constituent: Barium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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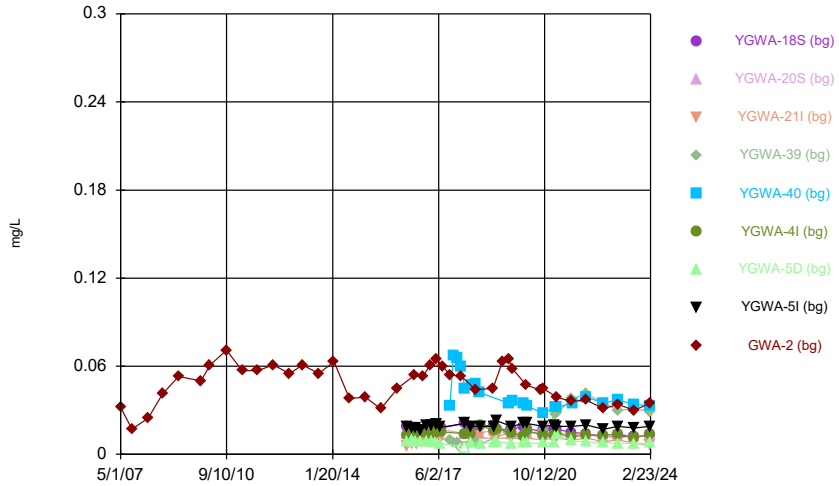
Hollow symbols indicate censored values.

Time Series



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Plant Yates Data: Yates Ash Pond 2

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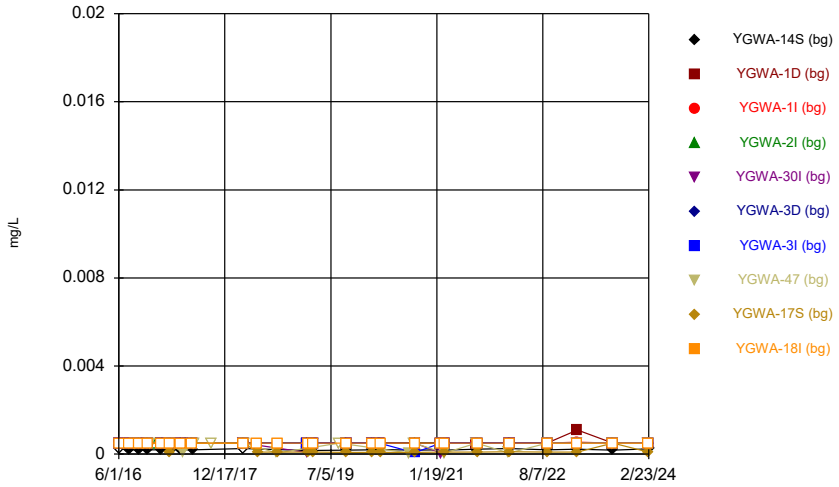

Constituent: Beryllium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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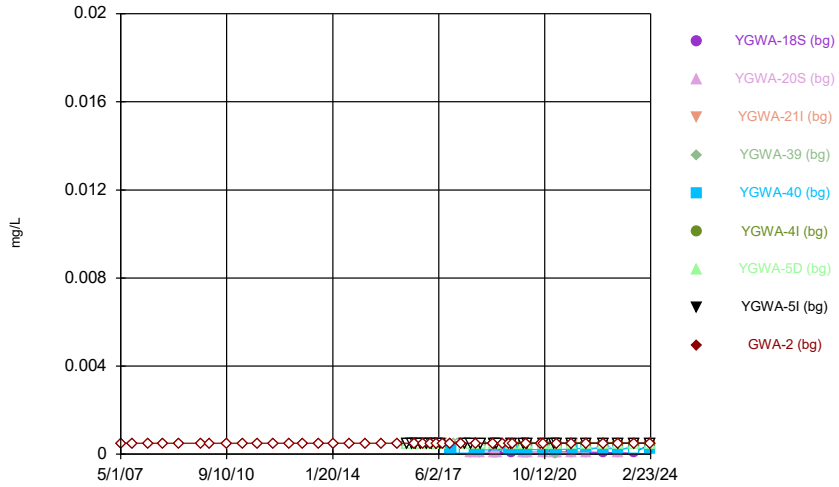
Time Series



Constituent: Beryllium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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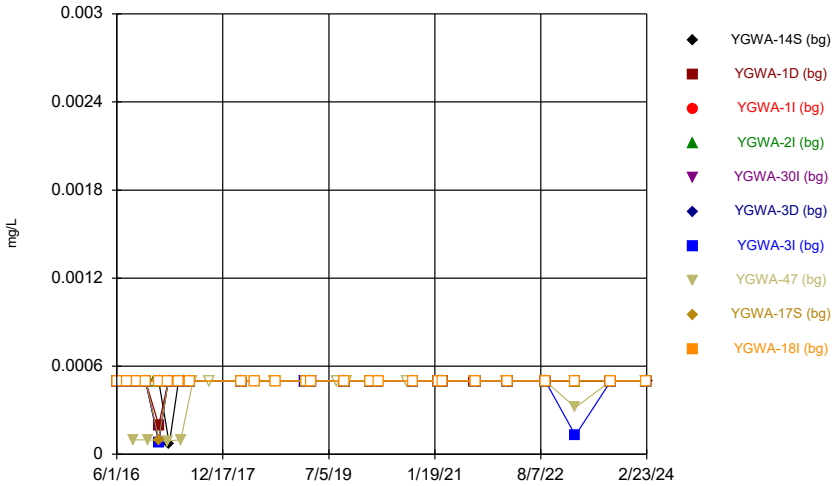
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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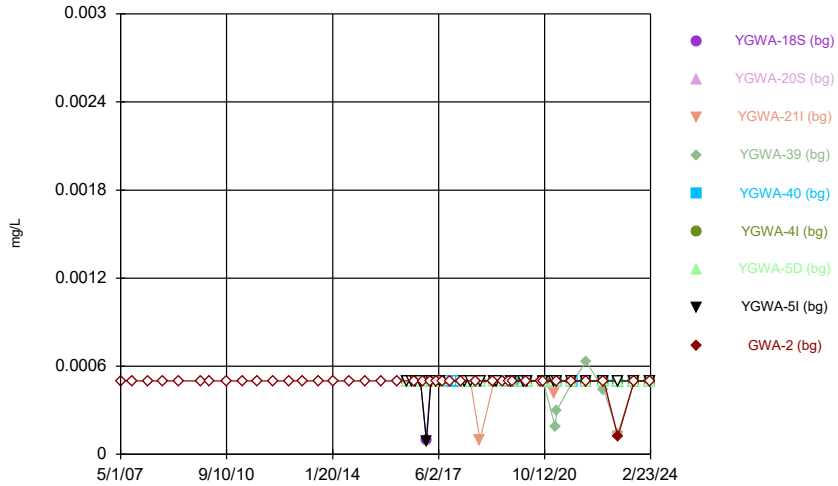
Hollow symbols indicate censored values.

Time Series



Constituent: Cadmium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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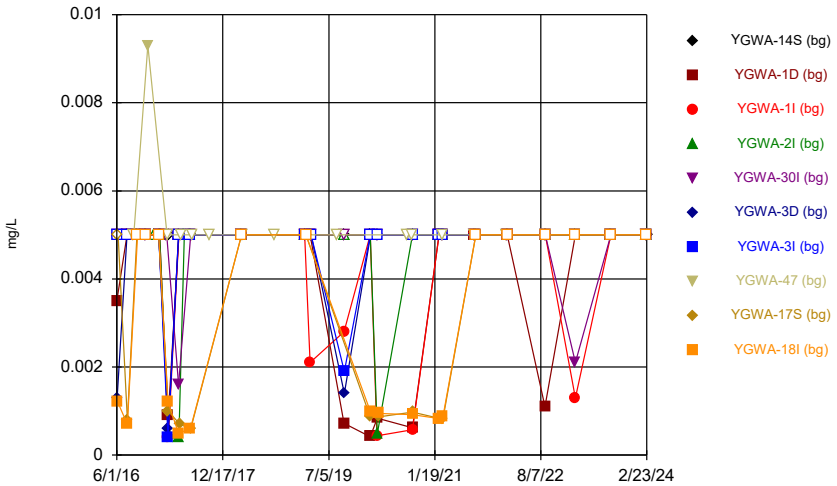
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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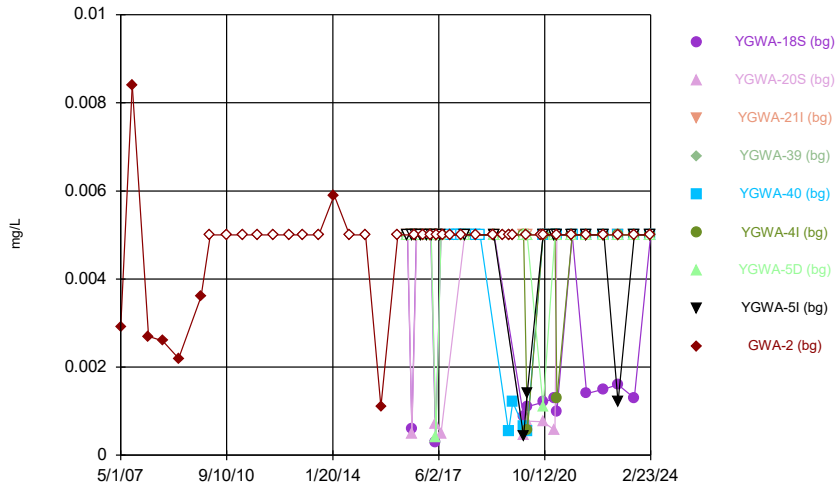
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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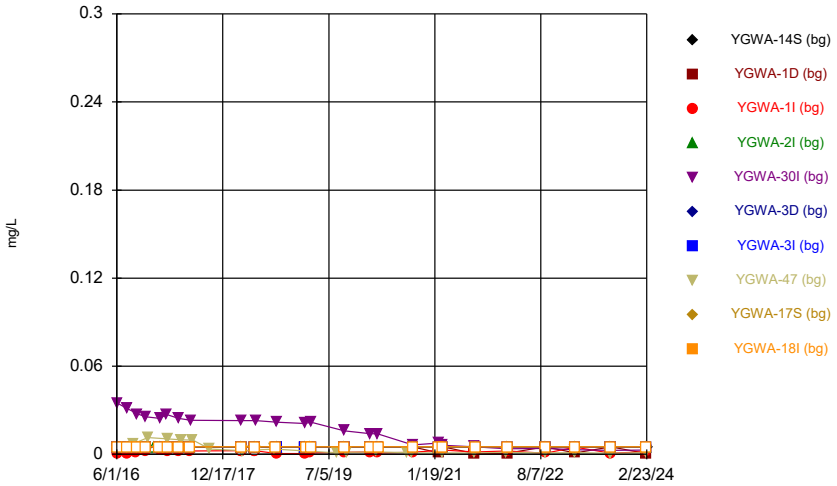
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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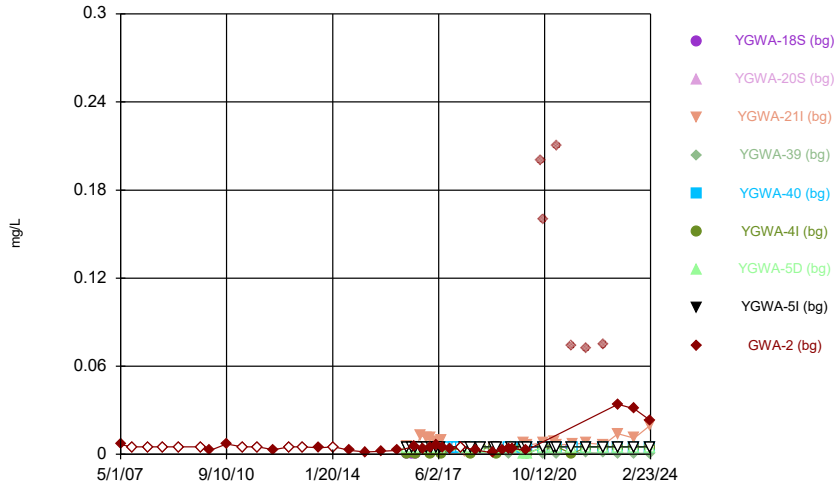
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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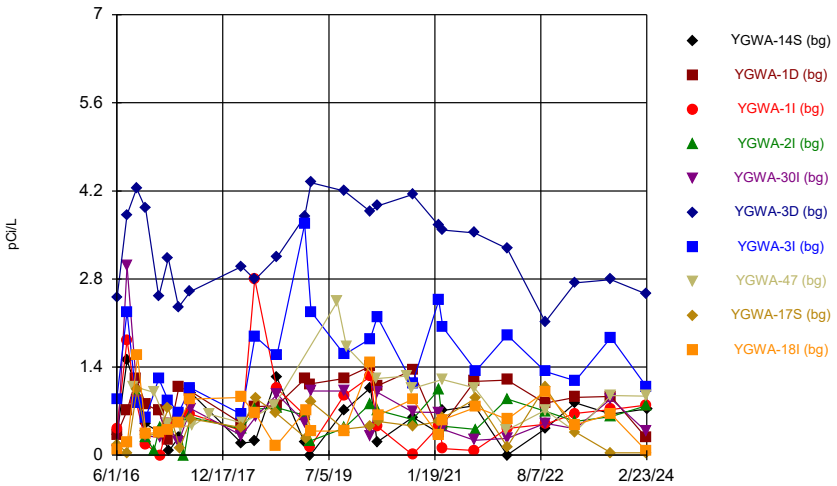
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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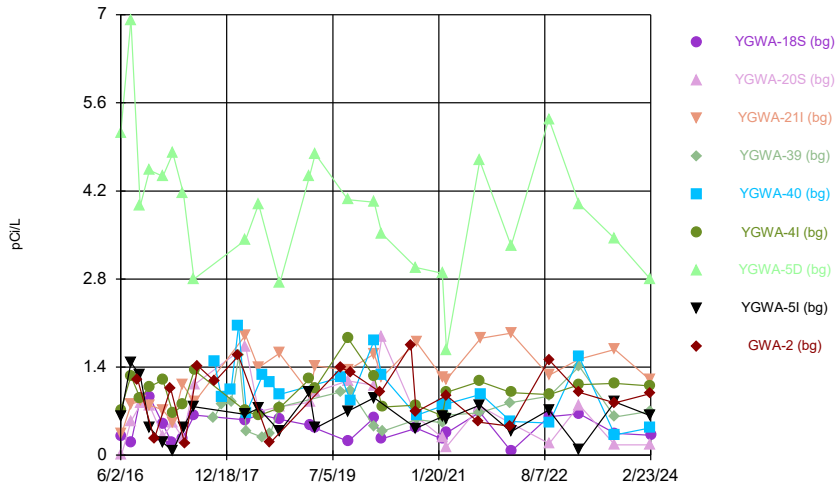
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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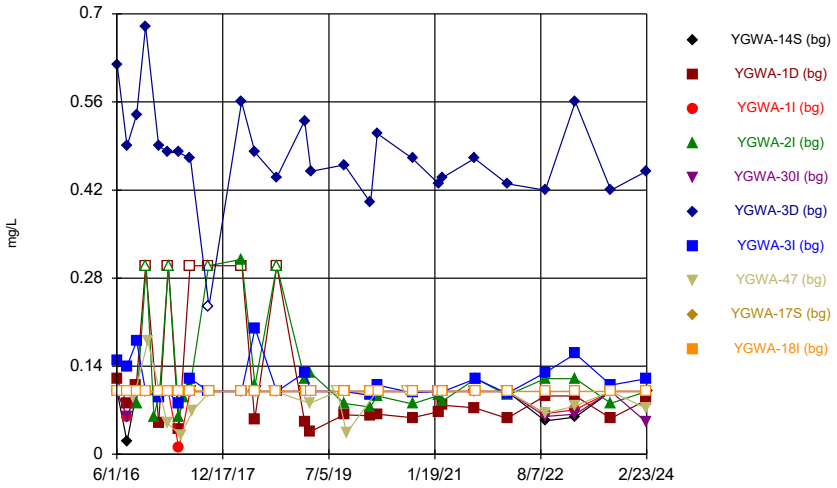
Hollow symbols indicate censored values.

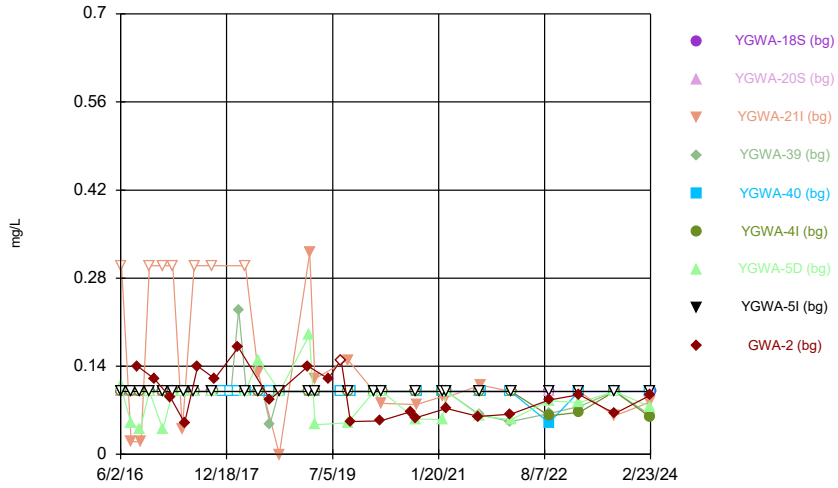
Time Series



Constituent: Fluoride Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

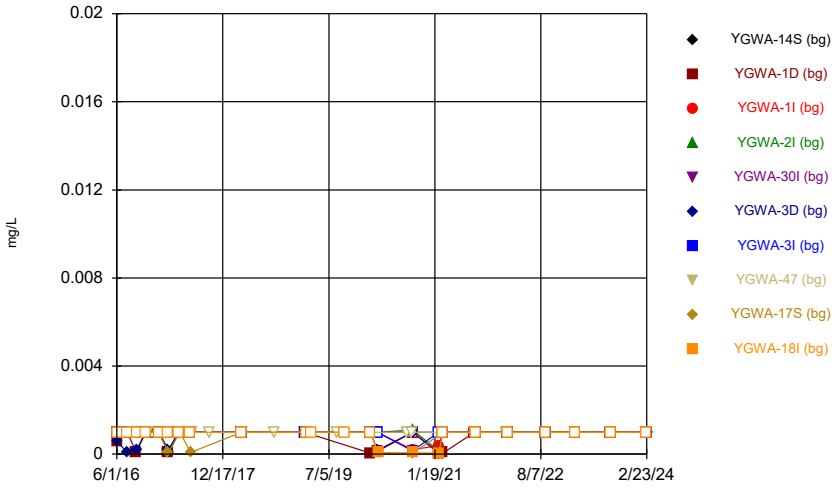
Time Series



Constituent: Fluoride Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

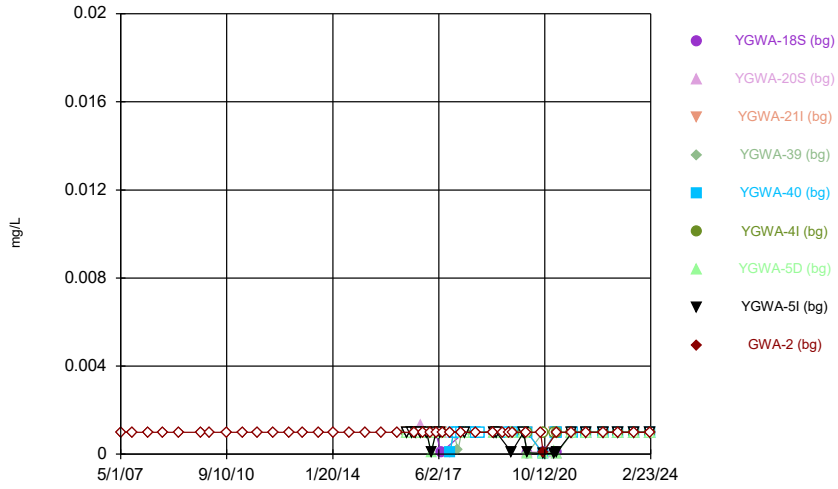
Time Series



Constituent: Lead Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

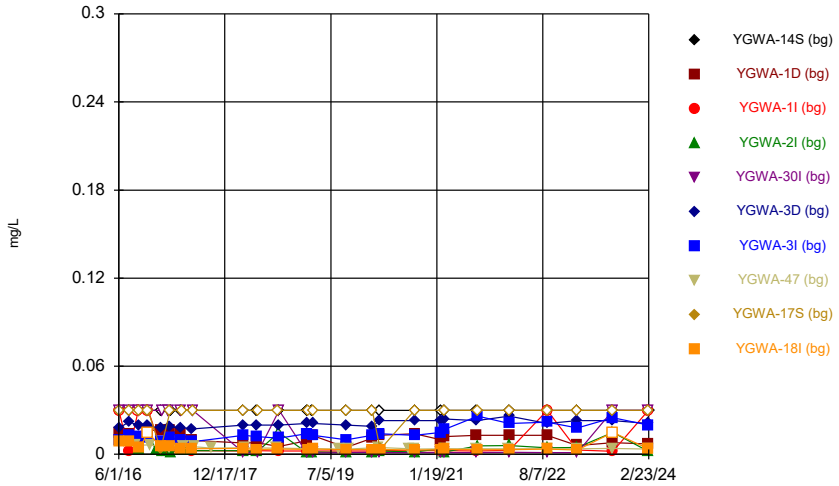
Time Series



Constituent: Lead Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

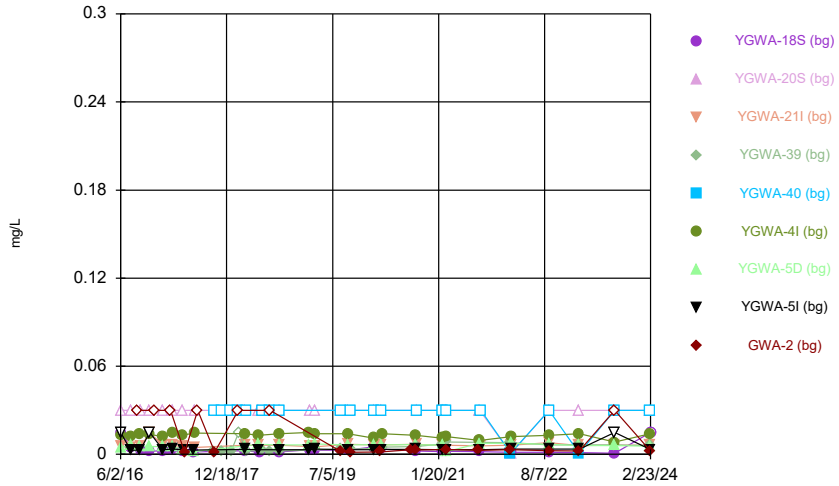
Time Series



Constituent: Lithium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

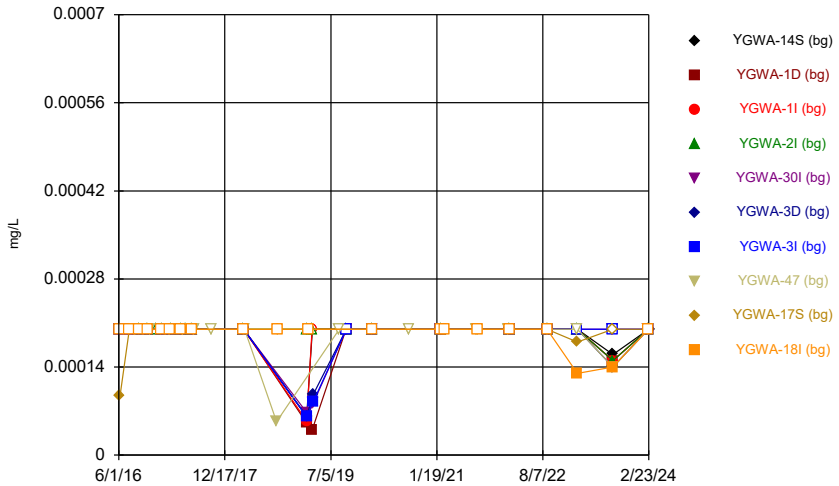
Time Series



Constituent: Lithium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

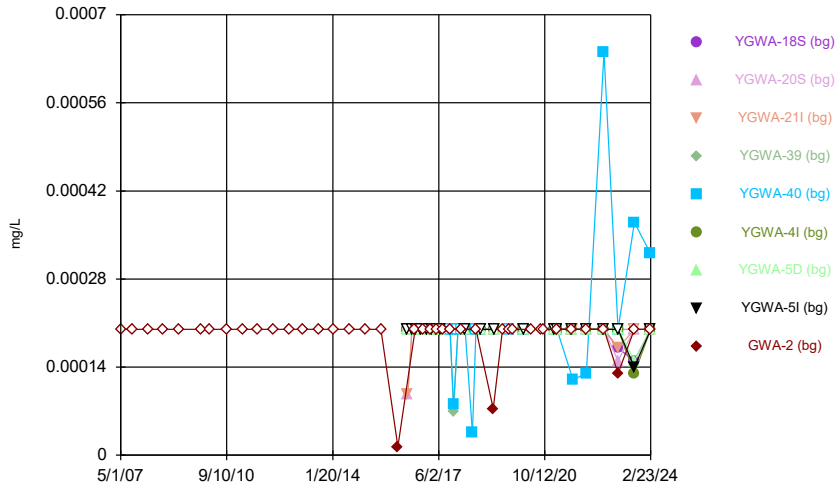
Time Series



Constituent: Mercury Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

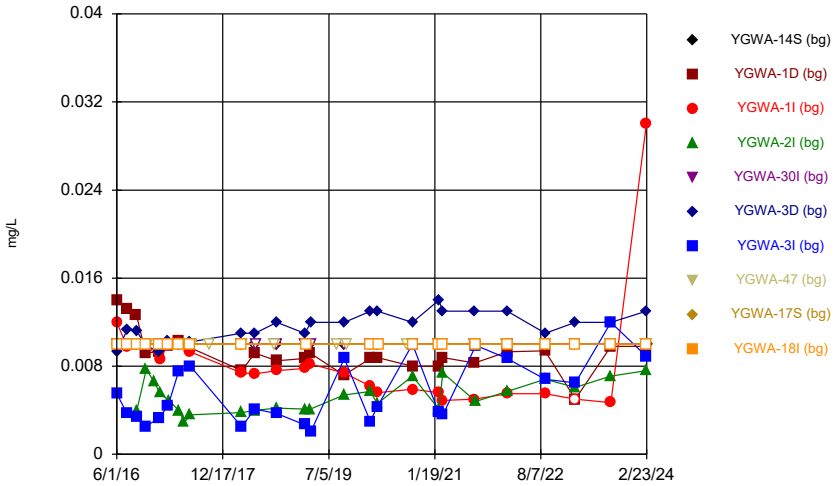
Time Series



Constituent: Mercury Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

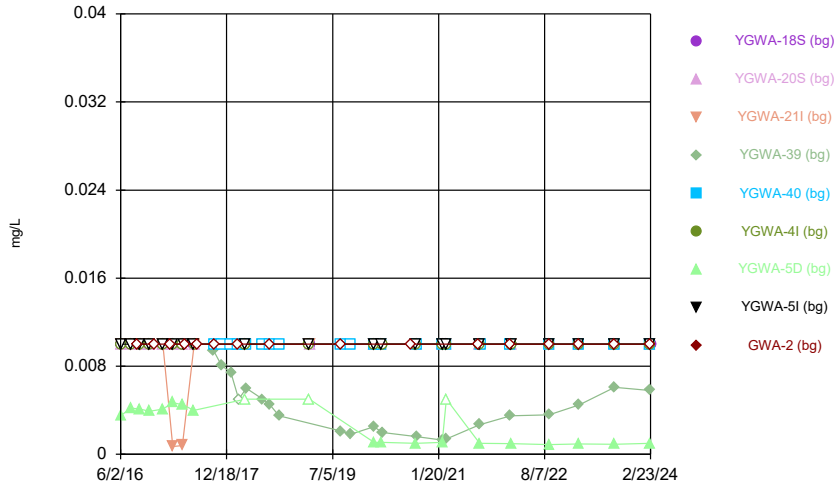
Time Series



Constituent: Molybdenum Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

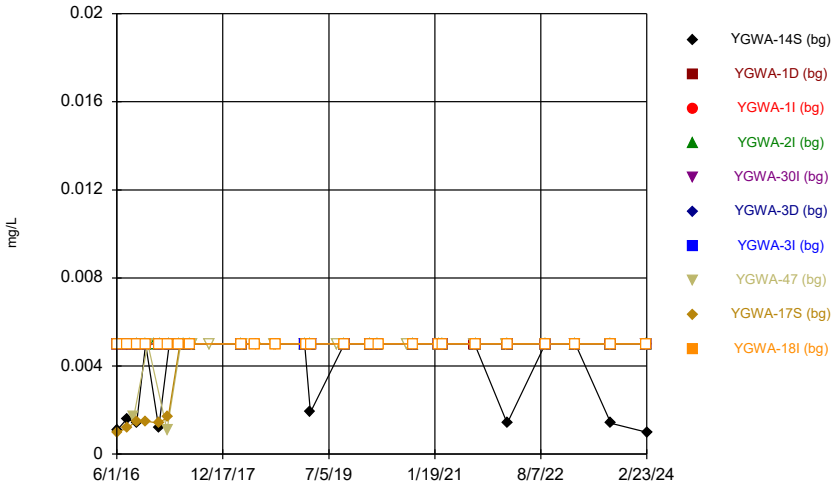
Time Series



Constituent: Molybdenum Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

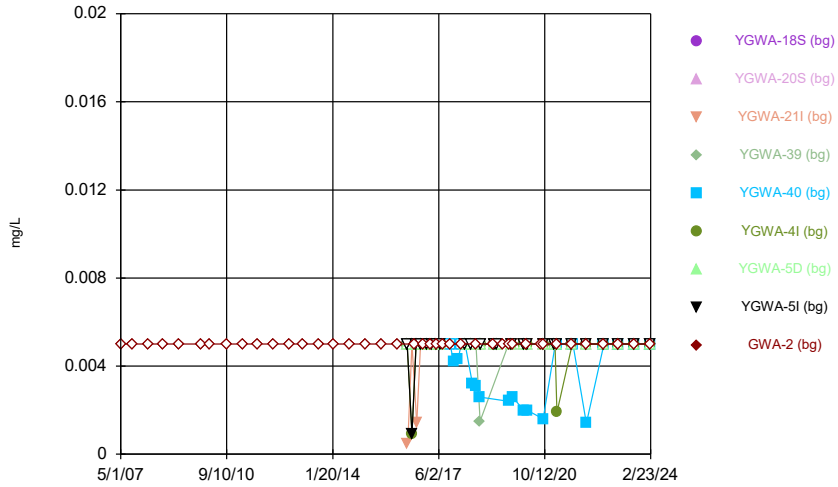
Time Series



Constituent: Selenium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

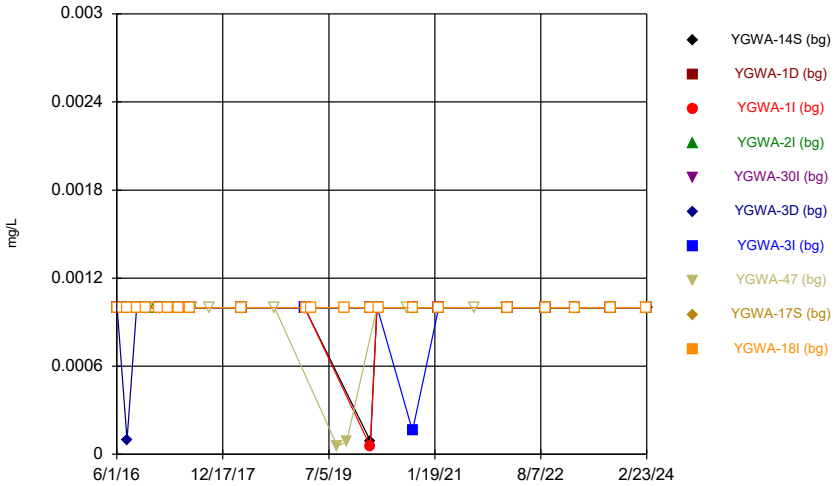
Time Series



Constituent: Selenium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

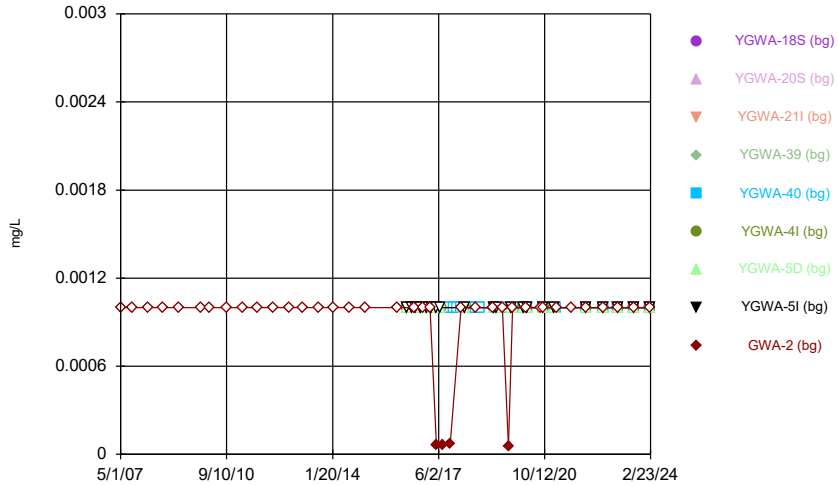
Time Series



Constituent: Thallium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG
Hollow symbols indicate censored values.

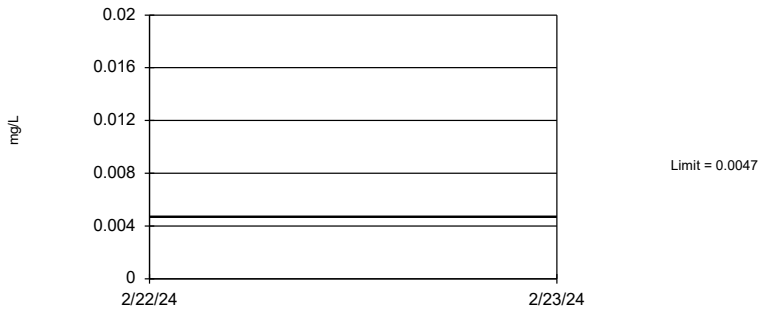
Time Series



Constituent: Thallium Analysis Run 5/2/2024 10:01 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 429 background values. 87.88% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Antimony Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

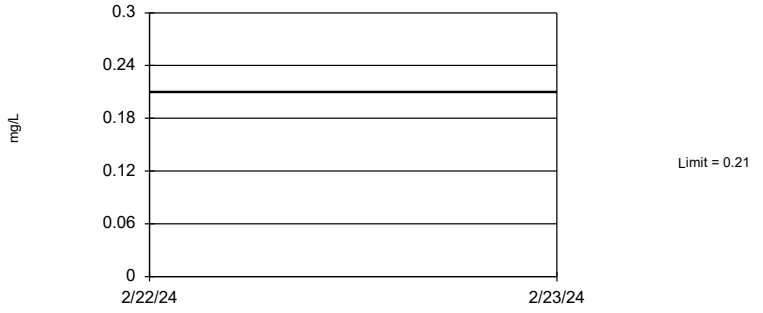
Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 477 background values. 75.26% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric

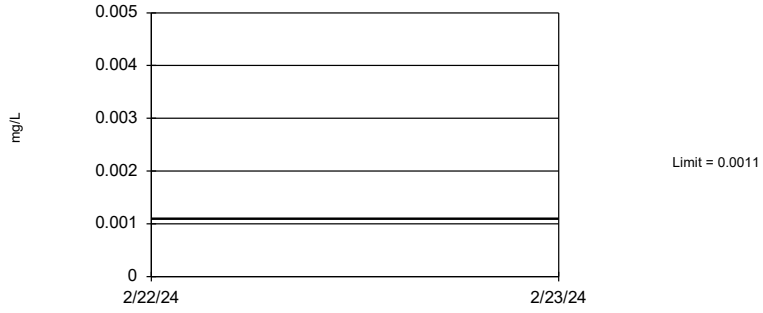


Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 477 background values. 2.306% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric

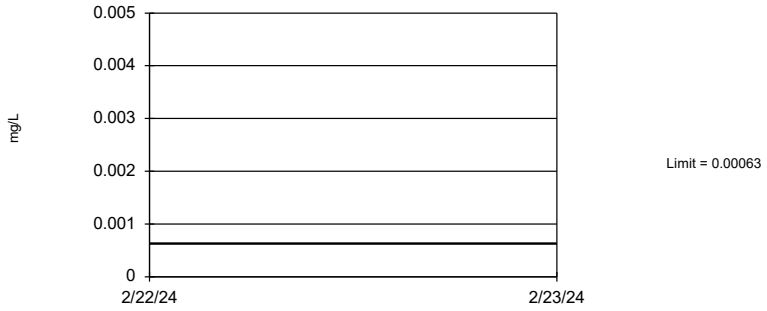


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 461 background values. 80.04% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric

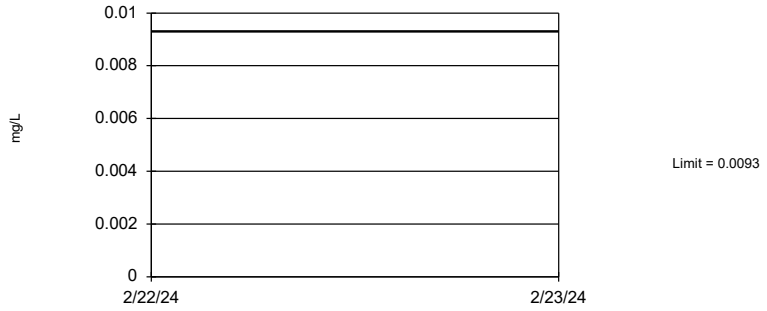


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 461 background values. 95.01% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric

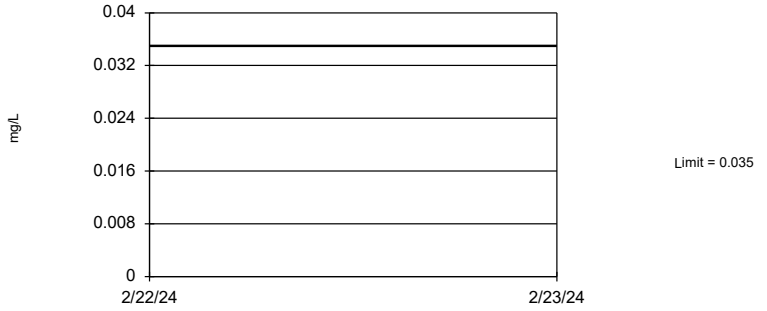


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 429 background values. 81.59% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric

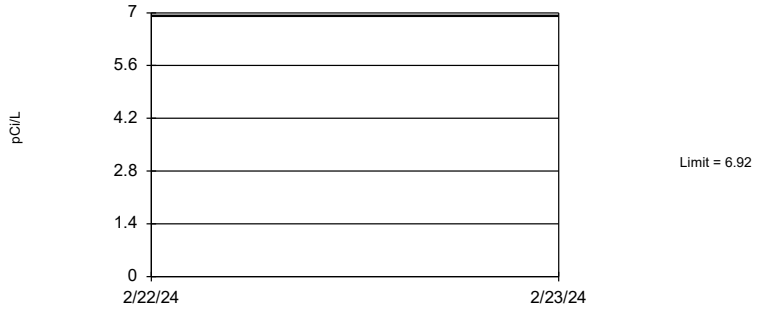


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 471 background values. 68.79% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric

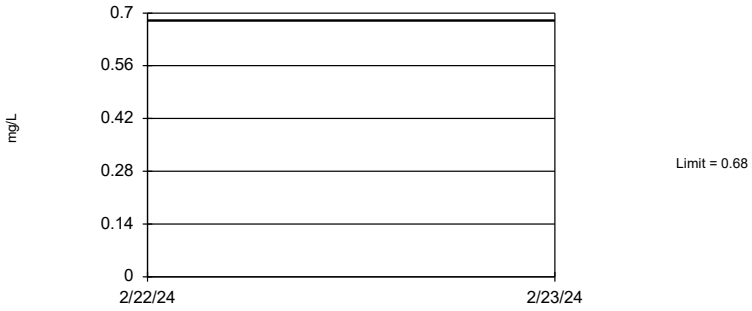


Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 456 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 476 background values. 63.45% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

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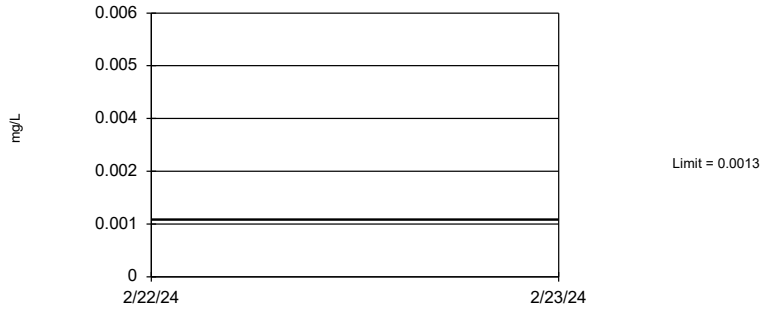
Tolerance Limit

Interwell Non-parametric



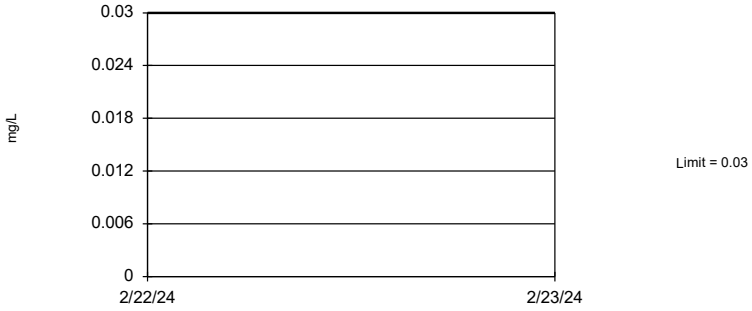
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 431 background values. 87.24% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Tolerance Limit

Interwell Non-parametric



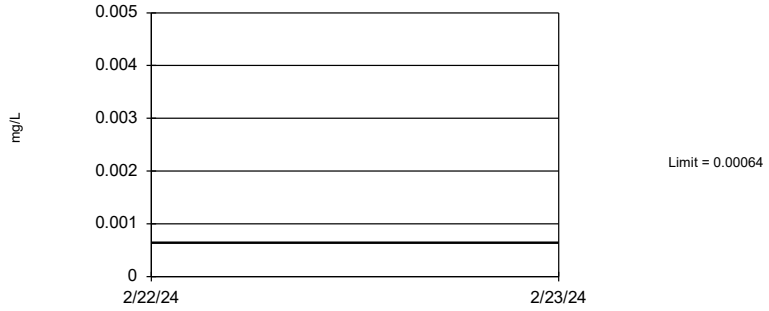
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 456 background values. 27.19% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Sanitas™ v.10.0.16e Software licensed to . UG

Tolerance Limit

Interwell Non-parametric

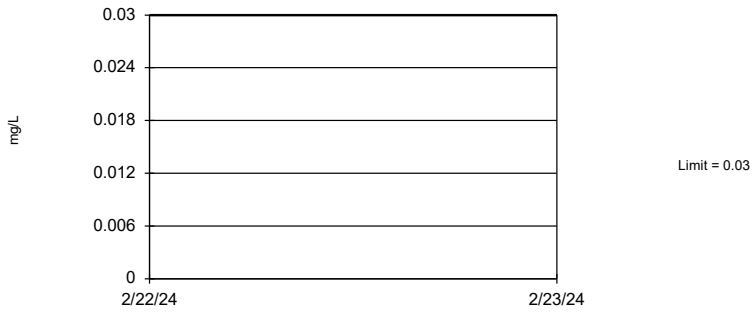


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 385 background values. 89.35% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Mercury Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 420 background values. 61.19% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Molybdenum Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

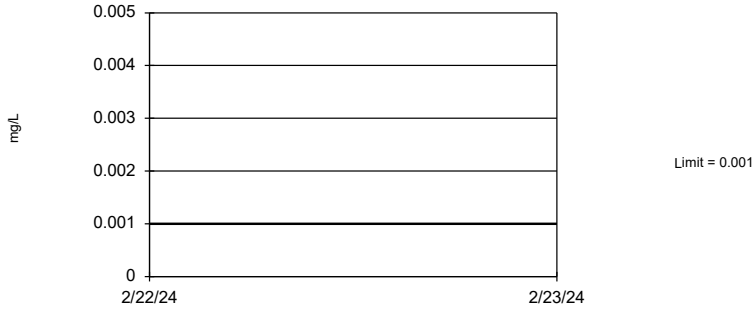
Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 459 background values. 92.81% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Selenium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 395 background values. 97.47% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Thallium Analysis Run 5/2/2024 10:00 AM View: Appendix IV - UTLs
Plant Yates Data: Yates Ash Pond 2

FIGURE G.

YATES ASH POND 2 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	0.1
Selenium, Total (mg/L)	0.05		0.005	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

FIGURE H.

Confidence Intervals Summary Table - All Results (No Significant)

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	No	21	0.002672	0.0008276	85.71	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	21	0.002871	0.0004064	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.0014	0.006	No	21	0.002797	0.0006641	90.48	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	21	0.002871	0.0005892	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-28I	0.003	0.0023	0.006	No	21	0.002967	0.0001528	95.24	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29IB	0.003	0.0013	0.006	No	21	0.002919	0.000371	95.24	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	25	0.004808	0.000667	92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	25	0.004816	0.000653	92	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0009	0.01	No	25	0.003578	0.002042	64	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	25	0.004876	0.00062	96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	25	0.004884	0.00058	96	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00075	0.01	No	25	0.003588	0.002038	64	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29IB	0.005	0.0033	0.01	No	25	0.004932	0.00034	96	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06523	0.06157	2	No	25	0.0634	0.003673	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.0283	0.02609	2	No	25	0.0272	0.002211	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07395	0.0664	2	No	25	0.07018	0.007568	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27S	0.1001	0.08167	2	No	25	0.08901	0.02093	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08777	0.0788	2	No	25	0.08328	0.009001	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2199	0.1984	2	No	25	0.2052	0.03448	0	None	x^3	0.01	Param.
Barium (mg/L)	YGWC-29IB	0.0781	0.057	2	No	25	0.07435	0.03089	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0001278	0.00009104	0.004	No	23	0.0002001	0.0001474	17.39	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27I	0.0002007	0.0001403	0.004	No	23	0.0001705	0.00005775	13.04	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	23	0.0004642	0.0001189	91.3	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.0001	0.005	No	23	0.0002774	0.0001781	21.74	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	23	0.0004991	0.00000417	95.65	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29IB	0.00028	0.00018	0.005	No	23	0.0003396	0.0003656	13.04	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.005	0.0008	0.1	No	23	0.003671	0.002046	65.22	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.005	0.0012	0.1	No	23	0.003	0.00182	34.78	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	23	0.005304	0.00146	95.65	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	No	23	0.004715	0.002727	73.91	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	23	0.004409	0.00156	86.96	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0034	0.1	No	23	0.004347	0.001548	82.61	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29IB	0.005	0.0005	0.1	No	23	0.004804	0.0009383	95.65	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002433	0.001813	0.035	No	25	0.002123	0.0006217	4	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01376	0.004019	0.035	No	25	0.01616	0.02373	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.002404	0.002041	0.035	No	25	0.002196	0.0003953	4	None	x^2	0.01	Param.
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	25	0.004817	0.000916	96	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0011	0.00085	0.035	No	25	0.001077	0.0004546	8	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29IB	0.005	0.0027	0.035	No	25	0.004126	0.001906	68	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	0.9944	0.5008	6.92	No	24	0.7476	0.4837	4.167	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8032	0.5276	6.92	No	25	0.6654	0.2765	4	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.746	2.625	6.92	No	25	3.186	1.125	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.9619	0.6006	6.92	No	25	0.7813	0.3624	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.7995	0.4593	6.92	No	25	0.6294	0.3413	4	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.8999	0.543	6.92	No	25	0.7214	0.358	4	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29IB	1.065	0.6817	6.92	No	25	0.8731	0.384	4	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	26	0.08269	0.01978	38.46	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	No	26	0.1219	0.08942	65.38	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.081	4	No	26	0.1829	0.1128	46.15	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.1594	0.09053	4	No	26	0.1505	0.09453	15.38	Kaplan-Meier	ln(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.29	0.078	4	No	26	0.159	0.1012	19.23	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2349	0.1581	4	No	26	0.2023	0.08725	7.692	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-29IB	0.17	0.059	4	No	26	0.1384	0.1037	26.92	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	21	0.00091	0.0002843	90.48	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.0001	0.015	No	21	0.0007786	0.000406	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.001	0.00072	0.015	No	21	0.0008284	0.0003329	71.43	None	No	0.01	NP (NDs)

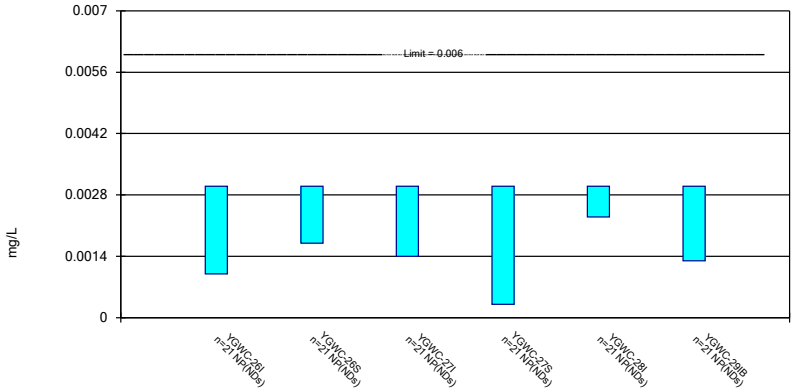
Confidence Intervals Summary Table - All Results (No Significant)

Plant Yates Data: Yates Ash Pond 2 Printed 5/2/2024, 10:09 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-28S	0.001	0.000075	0.015	No	21	0.0007769	0.0004091	76.19	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29IB	0.001	0.00016	0.015	No	21	0.0008724	0.0003206	85.71	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007374	0.006746	0.04	No	25	0.00706	0.0006305	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.009528	0.007614	0.04	No	25	0.008648	0.002002	0	None	sqrt(x)	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	25	0.02768	0.008015	92	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007012	0.006532	0.04	No	25	0.006772	0.0004818	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	25	0.02901	0.00494	96	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29IB	0.0066	0.0053	0.04	No	25	0.00678	0.002629	4	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	19	0.0001843	0.00004698	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	19	0.000185	0.00004502	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	19	0.0001842	0.00004748	89.47	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	No	19	0.0001832	0.00004876	84.21	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	19	0.000192	0.00003487	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	19	0.0001922	0.00003395	94.74	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29IB	0.0002	0.000047	0.002	No	19	0.0001835	0.00004952	89.47	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	No	25	0.00502	0.004187	40	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	25	0.004408	0.004283	36	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00082	0.1	No	25	0.007039	0.004405	68	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29IB	0.01	0.00099	0.1	No	25	0.009273	0.002517	92	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.003234	0.002153	0.05	No	23	0.002843	0.001158	8.696	None	ln(x)	0.01	Param.
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	23	0.004317	0.001533	82.61	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	23	0.004835	0.0007924	95.65	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	23	0.004826	0.0008341	95.65	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	19	0.0009006	0.0002976	89.47	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.00011	0.002	No	19	0.0007174	0.0004274	68.42	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-29IB	0.001	0.00021	0.002	No	19	0.0009584	0.0001812	94.74	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

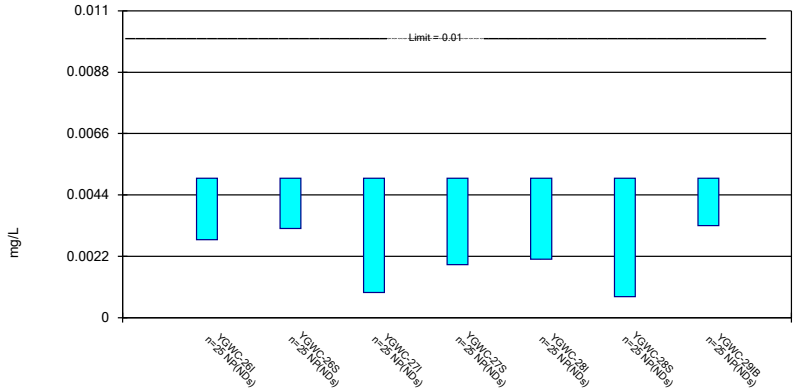
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

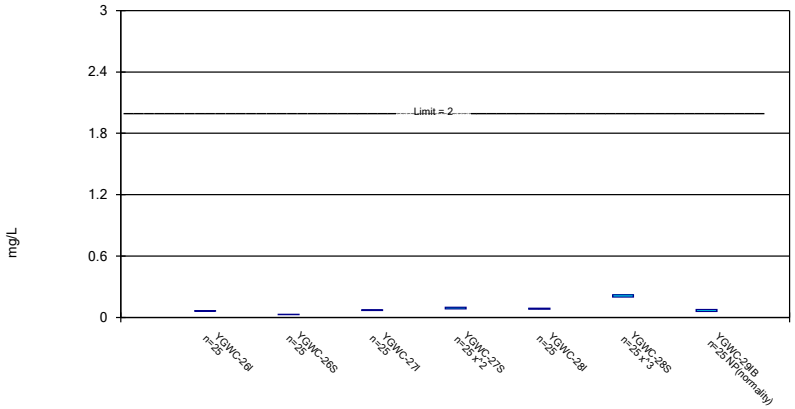
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

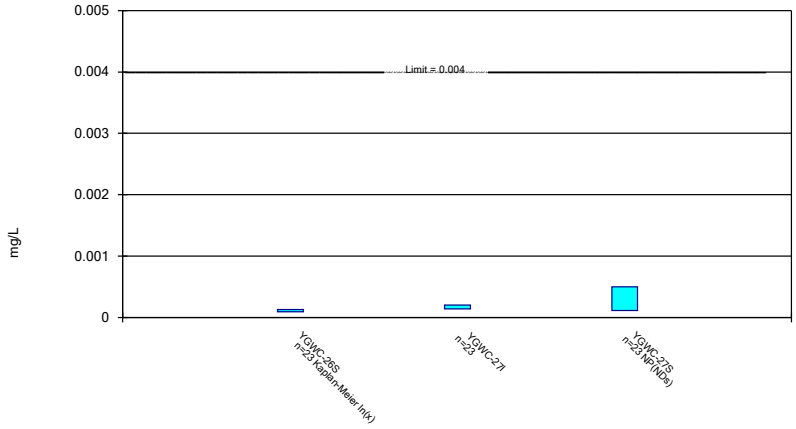
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

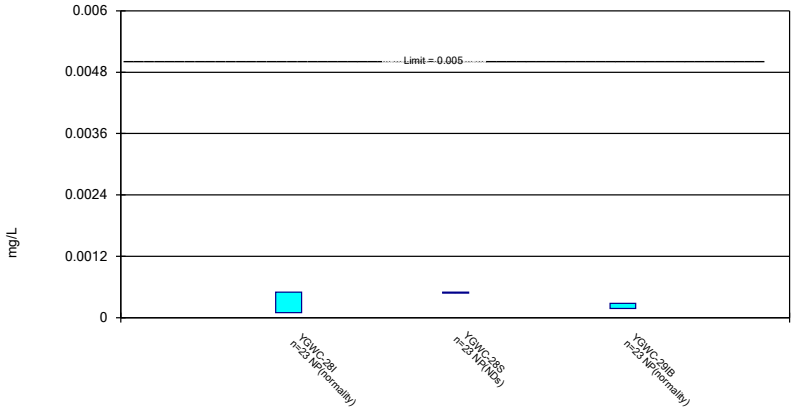
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

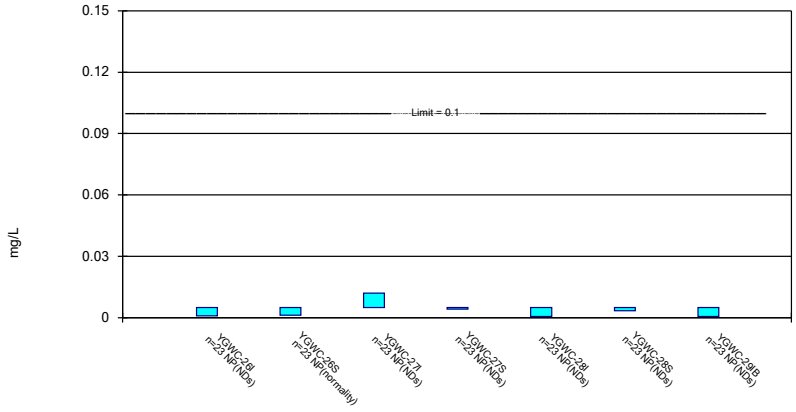
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

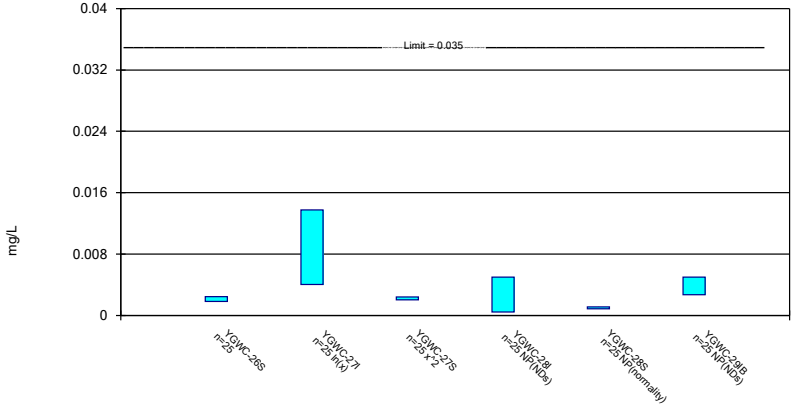
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

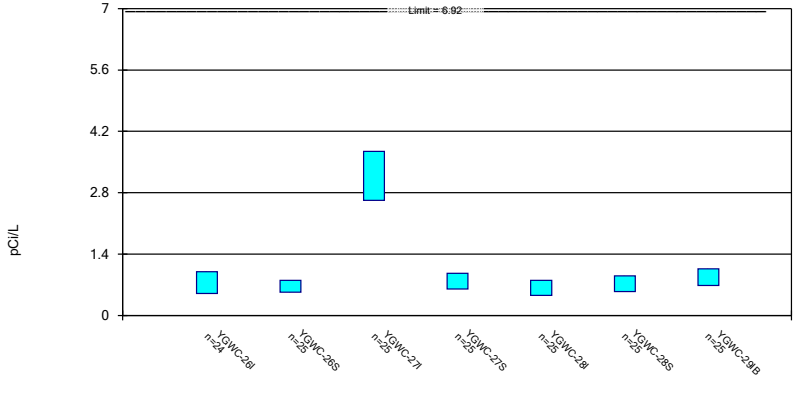
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Parametric Confidence Interval

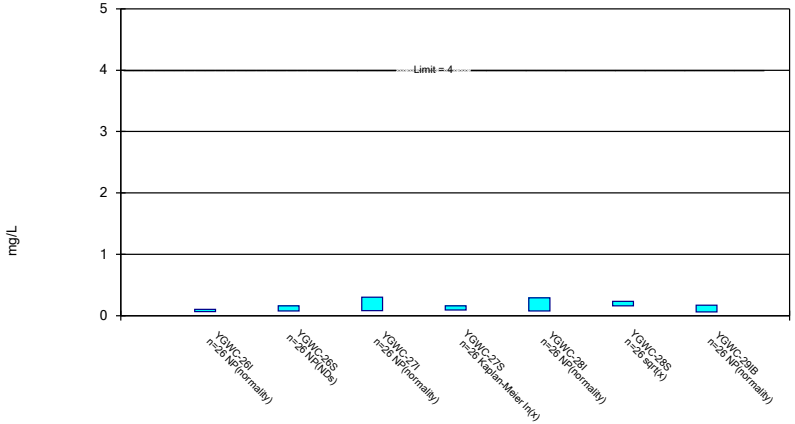
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

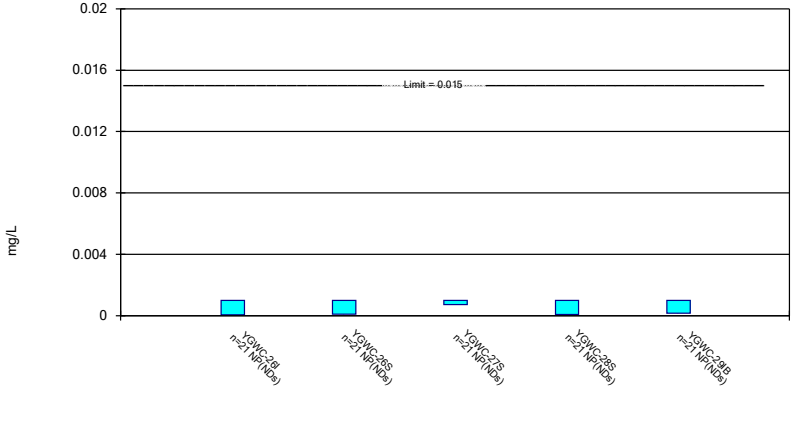


Constituent: Fluoride Analysis Run 5/2/2024 10:07 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

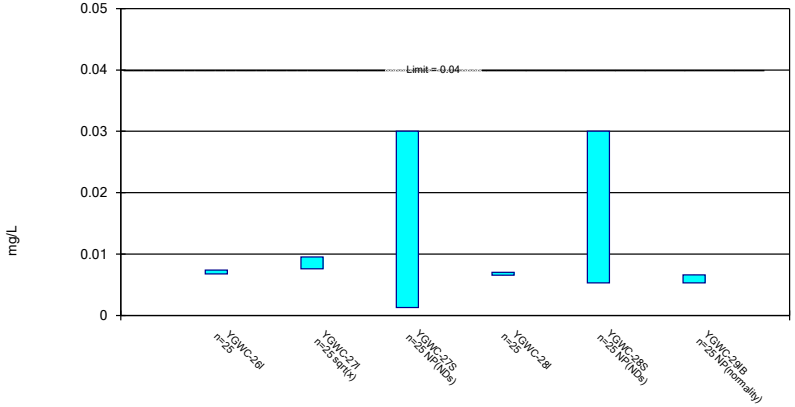


Constituent: Lead Analysis Run 5/2/2024 10:07 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

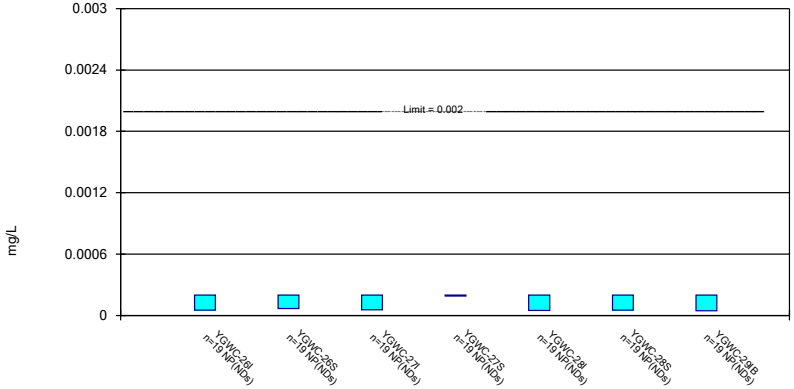


Constituent: Lithium Analysis Run 5/2/2024 10:07 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

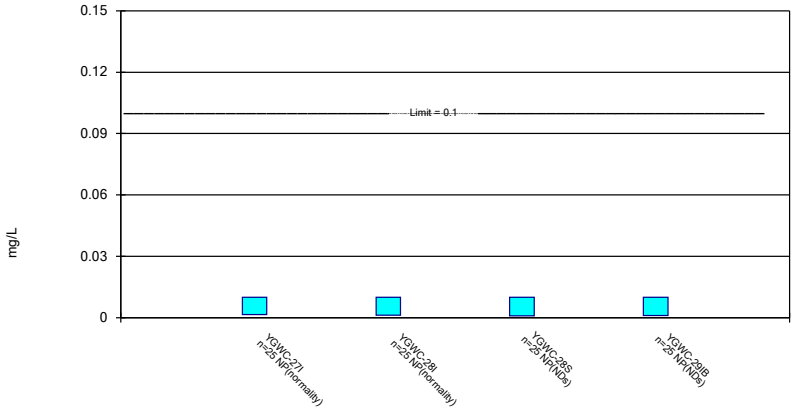


Constituent: Mercury Analysis Run 5/2/2024 10:07 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

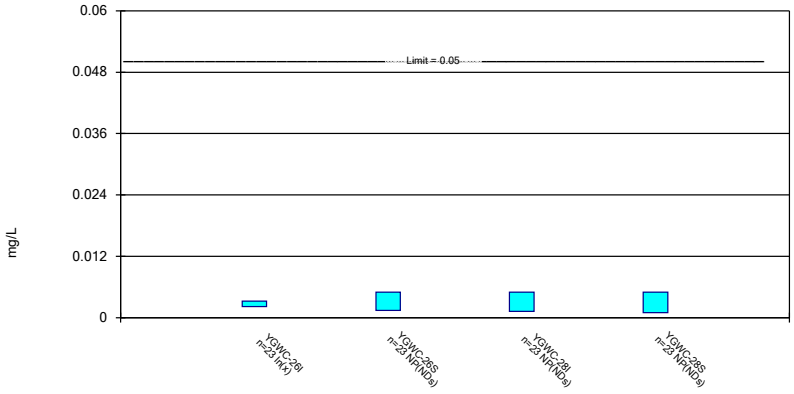
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

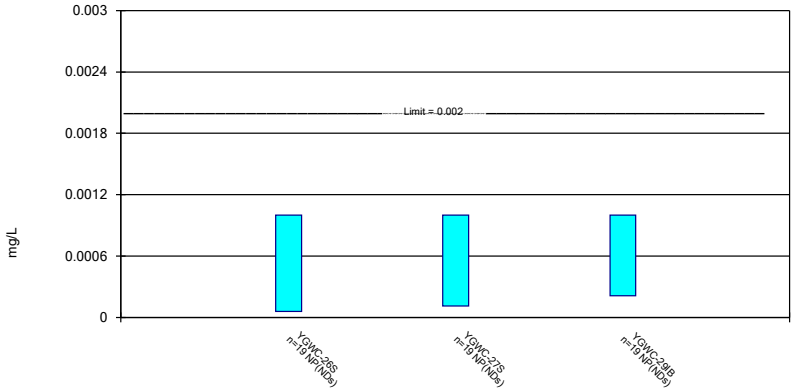
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Selenium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 5/2/2024 10:07 AM View: Appendix IV
Plant Yates Data: Yates Ash Pond 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-29IB
6/8/2016	<0.003	<0.003	<0.003	<0.003		
6/9/2016					<0.003	<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003		
8/2/2016					<0.003	<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003		
9/21/2016					<0.003	<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003
11/8/2016					<0.003	
1/18/2017	<0.003	<0.003	<0.003		<0.003	
1/19/2017				<0.003		<0.003
2/21/2017	<0.003	<0.003				
2/22/2017				<0.003	<0.003	<0.003
2/23/2017			<0.003			
5/3/2017		<0.003				
5/5/2017					<0.003	
5/8/2017	<0.003		<0.003	<0.003		<0.003
6/30/2017			<0.003	<0.003		
7/5/2017					<0.003	<0.003
7/10/2017	<0.003	<0.003				
3/29/2018			<0.003	<0.003		<0.003
3/30/2018	<0.003	<0.003			<0.003	
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)		<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003		
2/11/2021					<0.003	
2/12/2021						<0.003
3/2/2021		<0.003				
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003
8/19/2021		<0.003				
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003			
8/31/2022	0.001 (J)	<0.003				
9/1/2022			<0.003	<0.003	<0.003	<0.003
2/8/2023						<0.003
2/9/2023	<0.003	<0.003	0.0014 (J)	<0.003	<0.003	
8/2/2023						<0.003
8/16/2023					0.0023 (J)	
8/17/2023	<0.003	<0.003	<0.003	<0.003		
2/21/2024			<0.003	<0.003	<0.003	
2/22/2024	<0.003	<0.003				<0.003
Mean	0.002672	0.002871	0.002797	0.002871	0.002967	0.002919
Std. Dev.	0.0008276	0.0004064	0.0006641	0.0005892	0.0001528	0.000371
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.001	0.0017	0.0014	0.0003	0.0023	0.0013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023							<0.005
2/9/2023	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	<0.005	
8/2/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					<0.005
Mean	0.004808	0.004816	0.003578	0.004876	0.004884	0.003588	0.004932
Std. Dev.	0.000667	0.000653	0.002042	0.00062	0.00058	0.002038	0.00034
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0028	0.0032	0.0009	0.0019	0.0021	0.00075	0.0033

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					
9/1/2022			0.076	0.049	0.068	0.2	0.057
2/8/2023							0.098
2/9/2023	0.058	0.028	0.076	0.049	0.07	0.22	
8/2/2023							0.1
8/16/2023					0.066	0.21	
8/17/2023	0.061	0.025	0.069	0.051			

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024			0.06	0.047	0.062	0.21	
2/22/2024	0.057	0.025					0.081
Mean	0.0634	0.0272	0.07018	0.08901	0.08328	0.2052	0.07435
Std. Dev.	0.003673	0.002211	0.007568	0.02093	0.009001	0.03448	0.03089
Upper Lim.	0.06523	0.0283	0.07395	0.1001	0.08777	0.2199	0.0781
Lower Lim.	0.06157	0.02609	0.0664	0.08167	0.0788	0.1984	0.057

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S
6/8/2016	<0.0005	<0.0005	<0.0005
8/1/2016	0.0002 (J)	<0.0005	<0.0005
9/20/2016	0.0001 (J)	9E-05 (J)	<0.0005
11/7/2016	0.0001 (J)	0.0001 (J)	<0.0005
1/18/2017	0.0002 (J)	0.0002 (J)	
1/19/2017			<0.0005
2/21/2017	0.0002 (J)		
2/22/2017			<0.0005
2/23/2017		0.0002 (J)	
5/3/2017	0.0002 (J)		
5/8/2017		0.0002 (J)	<0.0005
6/30/2017		0.0002 (J)	<0.0005
7/10/2017	0.0002 (J)		
3/29/2018		<0.0005	<0.0005
3/30/2018	<0.0005		
2/27/2019	0.00018 (J)	0.00022 (J)	<0.0005
4/1/2019		0.00022 (J)	<0.0005
4/2/2019	0.00015 (J)		
9/25/2019	0.00011 (J)		
9/26/2019		0.0002 (J)	<0.0005
2/13/2020	0.00015 (J)	0.00021 (J)	<0.0005
3/19/2020	0.00012 (J)		
3/20/2020		0.00023 (J)	<0.0005
9/24/2020	8.5E-05 (J)	0.00019 (J)	<0.0005
2/10/2021	0.00013 (J)	0.00014 (J)	6.6E-05 (J)
3/2/2021	0.00016 (J)		
3/3/2021		0.00013 (J)	<0.0005
8/19/2021	8.2E-05 (J)		
8/20/2021		8.6E-05 (J)	0.00011 (J)
2/8/2022			<0.0005
2/10/2022	9.3E-05 (J)	0.00013 (J)	
8/31/2022	7.4E-05 (J)		
9/1/2022		0.00012 (J)	<0.0005
2/9/2023	6.8E-05 (J)	0.0001 (J)	<0.0005
8/17/2023	<0.0005	9.5E-05 (J)	<0.0005
2/21/2024		0.00011 (J)	<0.0005
2/22/2024	<0.0005		
Mean	0.0002001	0.0001705	0.0004642
Std. Dev.	0.0001474	5.775E-05	0.0001189
Upper Lim.	0.0001278	0.0002007	0.0005
Lower Lim.	9.104E-05	0.0001403	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB
6/9/2016	0.00055 (J)	<0.0005	<0.0025
8/2/2016	0.0001 (J)	<0.0005	0.0001 (J)
9/21/2016	0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016		<0.0005	0.0002 (J)
11/8/2016	9E-05 (J)		
1/18/2017	9E-05 (J)	<0.0005	
1/19/2017			0.0001 (J)
2/21/2017		<0.0005	
2/22/2017	0.0001 (J)		0.0001 (J)
5/5/2017	9E-05 (J)	<0.0005	
5/8/2017			0.0002 (J)
7/5/2017	0.0002 (J)		0.0002 (J)
7/7/2017		<0.0005	
3/29/2018			<0.0025
3/30/2018	<0.0005	<0.0005	
2/27/2019	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	0.00043 (J)		0.00022 (J)
4/2/2019		<0.0005	
9/25/2019			0.00024 (J)
9/26/2019	<0.0005	<0.0005	
2/13/2020	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0.00016 (J)	<0.0005	
3/20/2020			0.00022 (J)
9/24/2020	0.00027 (J)	<0.0005	0.00033 (J)
2/11/2021	0.00052 (J)		
2/12/2021		0.00048 (J)	<0.0025
3/3/2021	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	0.00033 (J)	<0.0005	0.00019 (J)
9/1/2022	0.00017 (J)	<0.0005	0.0002 (J)
2/8/2023			0.00028 (J)
2/9/2023	<0.0005	<0.0005	
8/2/2023			0.00016 (J)
8/16/2023	<0.0005	<0.0005	
2/21/2024	<0.0005	<0.0005	
2/22/2024			0.00012 (J)
Mean	0.0002774	0.0004991	0.0003396
Std. Dev.	0.0001781	4.17E-06	0.0003656
Upper Lim.	0.0005	0.0005	0.00028
Lower Lim.	0.0001	0.00048	0.00018

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023							<0.005
2/9/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	
8/2/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					<0.005
Mean	0.003671	0.003	0.005304	0.004715	0.004409	0.004347	0.004804
Std. Dev.	0.002046	0.00182	0.00146	0.002727	0.00156	0.001548	0.0009383
Upper Lim.	0.005	0.005	0.012	0.005	0.005	0.005	0.005

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
Lower Lim.	0.0008	0.0012	0.005	0.0041	0.0005	0.0034	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016				0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016				<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016				<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016				<0.005		
1/18/2017	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017			0.0024 (J)			<0.005
2/21/2017	0.0022 (J)				0.0011 (J)	
2/22/2017			0.0023 (J)	<0.005		<0.005
2/23/2017		0.002 (J)				
5/3/2017	0.002 (J)					
5/5/2017				<0.005	0.0012 (J)	
5/8/2017		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017		0.0044 (J)	0.0022 (J)			
7/5/2017				<0.005		0.0003 (J)
7/7/2017					0.0012 (J)	
7/10/2017	0.002 (J)					
3/29/2018		0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005			<0.005	<0.005	
6/11/2018						<0.005
6/12/2018			0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	0.0017 (J)	0.092				
10/2/2018	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018				<0.005	0.0013 (J)	
2/27/2019	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019		0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	0.0022 (J)				0.0011 (J)	
9/25/2019	0.0033 (J)					<0.005
9/26/2019		0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020	0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020		0.014	0.0022 (J)			<0.005
9/24/2020	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021				<0.005		
2/12/2021					<0.005	0.00094 (J)
3/2/2021	0.0021 (J)					
3/3/2021		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021	0.0017 (J)					
8/20/2021		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022			0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	0.0026 (J)	0.0051				
8/31/2022	0.0026 (J)					
9/1/2022		0.0096	0.0015 (J)	<0.005	0.00071 (J)	<0.005
2/8/2023						0.0053
2/9/2023	0.0017 (J)	0.0083	0.0015 (J)	<0.005	0.00074 (J)	
8/2/2023						0.0027 (J)
8/16/2023				<0.005	0.0008 (J)	
8/17/2023	0.00088 (J)	0.0079	0.0014 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024		0.016	0.0016 (J)	<0.005	0.00074 (J)	
2/22/2024	0.0012 (J)					0.0071
Mean	0.002123	0.01616	0.002196	0.004817	0.001077	0.004126
Std. Dev.	0.0006217	0.02373	0.0003953	0.000916	0.0004546	0.001906
Upper Lim.	0.002433	0.01376	0.002404	0.005	0.0011	0.005
Lower Lim.	0.001813	0.004019	0.002041	0.00042	0.00085	0.0027

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.53	<1.9	3.42	1.49	<2.15	<1.86	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	0.445 (U)
2/8/2023							0.963 (U)
2/9/2023	1.05 (U)	0.46 (U)	2.56	0.348 (U)	0.164 (U)	0.733 (U)	
8/2/2023							1.23
8/16/2023					0.62 (U)	0.837 (U)	
8/17/2023	0.635 (U)	0.734 (U)	3.48	0.509 (U)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024			3.26	0.669 (U)	0.447 (U)	0.781 (U)	
2/22/2024	0.745 (U)	0.303 (U)					0.871 (U)
Mean	0.7476	0.6654	3.186	0.7813	0.6294	0.7214	0.8731
Std. Dev.	0.4837	0.2765	1.125	0.3624	0.3413	0.358	0.384
Upper Lim.	0.9944	0.8032	3.746	0.9619	0.7995	0.8999	1.065
Lower Lim.	0.5008	0.5276	2.625	0.6006	0.4593	0.543	0.6817

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.3	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.3 (*)	<0.1 (*)		0.27 (J)	<0.3 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.3 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.3 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.3 (*)		<0.3 (*)
2/23/2017			<0.3 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.3 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.3 (*)		<0.3 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.3 (*)			<0.3 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.3	0.49			<0.3
3/30/2018	<0.1	0.35			<0.3	<0.3	
6/11/2018							<0.3
6/12/2018				0.037 (J)	<0.3	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.3				
10/2/2018	<0.1	<0.1	<0.3	<0.1			<0.3
10/3/2018					<0.3	0.31	
2/27/2019	<0.1	<0.1	<0.3	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.3	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.3	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					
9/1/2022			0.1	0.12	0.11	0.16	0.091 (J)
2/8/2023							0.092 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/9/2023	0.088 (J)	0.07 (J)	0.1	0.12	0.14	0.18	
8/2/2023							0.054 (J)
8/16/2023					0.078 (J)	0.18	
8/17/2023	0.073 (J)	0.06 (J)	0.081 (J)	0.098 (J)			
2/21/2024			0.082 (J)	0.11	0.096 (J)	0.15	
2/22/2024	0.057 (J)	<0.1					0.075 (J)
Mean	0.08269	0.1219	0.1829	0.1505	0.159	0.2023	0.1384
Std. Dev.	0.01978	0.08942	0.1128	0.09453	0.1012	0.08725	0.1037
Upper Lim.	0.1	0.16	0.3	0.1594	0.29	0.2349	0.17
Lower Lim.	0.064	0.076	0.081	0.09053	0.078	0.1581	0.059

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28S	YGWC-29IB
6/8/2016	<0.001	<0.001	<0.001 (*)		
6/9/2016				<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001		
8/2/2016				<0.001	<0.001
9/20/2016	<0.001	<0.001	0.0002 (J)		
9/21/2016				<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001		<0.001	
1/19/2017			<0.001		<0.001
2/21/2017	<0.001	<0.001		<0.001	
2/22/2017			<0.001		<0.001
5/3/2017		<0.001 (*)			
5/5/2017				<0.001 (*)	
5/8/2017	<0.001		<0.001		<0.001
6/30/2017			<0.001		
7/5/2017					<0.001
7/7/2017				7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)			
3/29/2018			<0.001		<0.001
3/30/2018	<0.001	<0.001		<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	6.2E-05 (J)	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)		7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		8.5E-05 (J)		<0.001
9/24/2020	<0.001	6.4E-05 (J)	0.00037 (J)	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	0.00072 (J)		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)			
3/3/2021	<0.001		<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001			
8/20/2021	<0.001		0.00096 (J)	<0.001	<0.001
2/8/2022			<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001			
8/31/2022	<0.001	<0.001			
9/1/2022			<0.001	<0.001	<0.001
2/8/2023					<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	
8/2/2023					<0.001
8/16/2023				<0.001	
8/17/2023	<0.001	<0.001	<0.001		
2/21/2024			<0.001	<0.001	
2/22/2024	<0.001	<0.001			<0.001
Mean	0.00091	0.0007786	0.0008284	0.0007769	0.0008724
Std. Dev.	0.0002843	0.000406	0.0003329	0.0004091	0.0003206
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	0.0001	0.00072	7.5E-05	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.007	0.0067	<0.03			
6/9/2016				0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	0.008 (J)	<0.03			
8/2/2016				0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	0.0111 (J)	<0.03			
9/21/2016				0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016				0.0072 (J)		
1/18/2017	0.0066 (J)	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017			<0.03			0.0055 (J)
2/21/2017	0.0067 (J)				<0.03	
2/22/2017			<0.03	0.0064 (J)		0.0063 (J)
2/23/2017		0.0099 (J)				
5/5/2017				0.007 (J)	<0.03	
5/8/2017	0.007 (J)	0.0086 (J)	<0.03			0.0066 (J)
6/30/2017		0.0108 (J)	<0.03			
7/5/2017				0.0072 (J)		0.0058 (J)
7/7/2017					<0.03	
7/10/2017	0.0064 (J)					
3/29/2018		0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)			0.007 (J)	<0.03	
6/11/2018						0.0064 (J)
6/12/2018			<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	0.014 (J)				
10/2/2018	0.0064 (J)	0.012 (J)	<0.03			0.006 (J)
10/3/2018				0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019		0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)				<0.03	
9/25/2019	0.0073 (J)					0.0057 (J)
9/26/2019		0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020				0.007 (J)	<0.03	
3/20/2020	0.0072 (J)	0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.0067 (J)	0.00081 (J)			
2/11/2021				0.007 (J)		
2/12/2021					0.0053 (J)	<0.03
3/3/2021	0.0077 (J)	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0079 (J)	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022			<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	0.0072 (J)				
8/31/2022	0.0074 (J)					
9/1/2022		0.0069 (J)	<0.03	0.0066 (J)	<0.03	0.0051 (J)
2/8/2023						0.012 (J)
2/9/2023	0.0075 (J)	0.0069 (J)	<0.03	0.0066 (J)	<0.03	
8/2/2023						0.013 (J)
8/16/2023				0.0058 (J)	<0.03	
8/17/2023	0.0077 (J)	0.0067 (J)	<0.03			
2/21/2024		0.007 (J)	<0.03	0.0056 (J)	<0.03	
2/22/2024	0.0078 (J)					0.0051 (J)
Mean	0.00706	0.008648	0.02768	0.006772	0.02901	0.00678

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
Std. Dev.	0.0006305	0.002002	0.008015	0.0004818	0.00494	0.002629
Upper Lim.	0.007374	0.009528	0.03	0.007012	0.03	0.0066
Lower Lim.	0.006746	0.007614	0.0013	0.006532	0.0053	0.0053

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	<0.0002
2/8/2023							<0.0002
2/9/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/2/2023							<0.0002
8/16/2023					<0.0002	<0.0002	
8/17/2023	<0.0002	<0.0002	<0.0002	<0.0002			
2/21/2024			<0.0002	<0.0002	<0.0002	<0.0002	
2/22/2024	<0.0002	<0.0002					<0.0002
Mean	0.0001843	0.000185	0.0001842	0.0001832	0.000192	0.0001922	0.0001835
Std. Dev.	4.698E-05	4.502E-05	4.748E-05	4.876E-05	3.487E-05	3.395E-05	4.952E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	0.00019	4.8E-05	5.2E-05	4.7E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0011 (J)			
6/9/2016		0.0011 (J)	<0.01	<0.01
8/1/2016	0.0018 (J)			
8/2/2016		0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01			
9/21/2016		<0.01	<0.01	<0.01
11/7/2016	<0.01		<0.01	<0.01
11/8/2016		<0.01		
1/18/2017	<0.01	<0.01	<0.01	
1/19/2017				<0.01
2/21/2017			<0.01	
2/22/2017		<0.01		<0.01
2/23/2017	<0.01			
5/5/2017		0.0014 (J)	0.0007 (J)	
5/8/2017	0.0011 (J)			<0.01
6/30/2017	<0.01			
7/5/2017		0.0014 (J)		<0.01
7/7/2017			<0.01	
3/29/2018	<0.01			<0.01
3/30/2018		<0.01	<0.01	
6/11/2018				<0.01
6/12/2018		<0.01	<0.01	
6/13/2018	<0.01			
10/2/2018	<0.01			<0.01
10/3/2018		<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01
4/1/2019	<0.01	<0.01		<0.01
4/2/2019			<0.01	
9/25/2019				<0.01
9/26/2019	0.0013 (J)	0.0013 (J)	<0.01	
2/13/2020	0.0014 (J)	0.0013 (J)	<0.01	<0.01
3/19/2020		0.0014 (J)	<0.01	
3/20/2020	0.0014 (J)			<0.01
9/24/2020	0.0015 (J)	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	0.0016 (J)			
2/11/2021		0.0012 (J)		
2/12/2021			<0.01	0.00083 (J)
3/3/2021	0.0017 (J)	0.0011 (J)	0.00083 (J)	<0.01
8/20/2021	0.0042 (J)	0.001 (J)	<0.01	<0.01
2/8/2022		0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	0.0018 (J)			
9/1/2022	0.0016 (J)	0.001 (J)	<0.01	<0.01
2/8/2023				0.00099 (J)
2/9/2023	0.0019 (J)	0.0014 (J)	0.00083 (J)	
8/2/2023				<0.01
8/16/2023		0.0016 (J)	0.00077 (J)	
8/17/2023	0.0016 (J)			
2/21/2024	0.0015 (J)	0.0013 (J)	0.00068 (J)	
2/22/2024				<0.01
Mean	0.00502	0.004408	0.007039	0.009273
Std. Dev.	0.004187	0.004283	0.004405	0.002517
Upper Lim.	0.01	0.01	0.01	0.01

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29IB
Lower Lim.	0.0015	0.0012	0.00082	0.00099

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-28I	YGWC-28S
6/8/2016	0.0016	0.0003 (J)		
6/9/2016			<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)		
8/2/2016			<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005		
9/21/2016			<0.005	0.001 (J)
11/7/2016	0.0017 (J)	<0.005		<0.005
11/8/2016			<0.005	
1/18/2017	0.002 (J)	0.0012 (J)	<0.005	<0.005
2/21/2017	0.0018 (J)	0.0014 (J)		<0.005
2/22/2017			0.0012 (J)	
5/3/2017		<0.005		
5/5/2017			<0.005	<0.005
5/8/2017	<0.01			
7/5/2017			<0.005	
7/7/2017				<0.005
7/10/2017	0.002 (J)	<0.005		
3/30/2018	<0.01	<0.005	<0.005	<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005
4/1/2019			<0.005	
4/2/2019	0.0017 (J)	<0.005		<0.005
9/25/2019	0.0019 (J)	<0.005		
9/26/2019			<0.005	<0.005
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005	<0.005
3/20/2020	0.0019 (J)			
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005		
2/11/2021			<0.005	
2/12/2021				<0.005
3/2/2021		<0.005		
3/3/2021	0.0034 (J)		<0.005	<0.005
8/19/2021		<0.005		
8/20/2021	0.0026 (J)		<0.005	<0.005
2/8/2022			<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005		
8/31/2022	0.0036 (J)	<0.005		
9/1/2022			<0.005	<0.005
2/9/2023	0.0042 (J)	<0.005	<0.005	<0.005
8/16/2023			<0.005	<0.005
8/17/2023	0.0046 (J)	<0.005		
2/21/2024			<0.005	<0.005
2/22/2024	0.0041 (J)	<0.005		
Mean	0.002843	0.004317	0.004835	0.004826
Std. Dev.	0.001158	0.001533	0.0007924	0.0008341
Upper Lim.	0.003234	0.005	0.005	0.005
Lower Lim.	0.002153	0.0014	0.0012	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 5/2/2024 10:09 AM View: Appendix IV

Plant Yates Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27S	YGWC-29IB
6/8/2016	<0.001	0.00012 (J)	
6/9/2016			<0.001
8/1/2016	<0.001	0.0001 (J)	
8/2/2016			<0.001
9/20/2016	<0.001	<0.001	
9/21/2016			<0.001
11/7/2016	<0.001	<0.001	<0.001
1/18/2017	<0.001		
1/19/2017		<0.001	<0.001
2/21/2017	<0.001		
2/22/2017		<0.001	<0.001
5/3/2017	<0.001		
5/8/2017		0.0001 (J)	<0.001
6/30/2017		0.0001 (J)	
7/5/2017			<0.001
7/10/2017	<0.001		
3/29/2018		<0.001	<0.001
3/30/2018	<0.001		
2/27/2019	<0.001	<0.001	<0.001
2/13/2020	5.7E-05 (J)	0.0001 (J)	<0.001
3/19/2020	5.5E-05 (J)		
3/20/2020		0.00011 (J)	<0.001
9/24/2020	<0.001	<0.001	<0.001
2/10/2021	<0.001	<0.001	
2/12/2021			<0.001
2/8/2022		<0.001	<0.001
2/10/2022	<0.001		
8/31/2022	<0.001		
9/1/2022		<0.001	<0.001
2/8/2023			0.00021 (J)
2/9/2023	<0.001	<0.001	
8/2/2023			<0.001
8/17/2023	<0.001	<0.001	
2/21/2024		<0.001	
2/22/2024	<0.001		<0.001
Mean	0.0009006	0.0007174	0.0009584
Std. Dev.	0.0002976	0.0004274	0.0001812
Upper Lim.	0.001	0.001	0.001
Lower Lim.	5.7E-05	0.00011	0.00021

ND substitution: RL or RL/2 if <15% NDs.

August 2024

GROUNDWATER STATS CONSULTING

January 31, 2025

Southern Company Services
Attn: Mr. Trey Singleton
3535 Colonnade Parkway
Birmingham, AL 35243

Re: Plant Yates Ash Pond 2 (AP-2)
August 2024 Statistical Analysis

Dear Mr. Singleton,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the August 2024 semi-annual Groundwater Detection and Assessment Monitoring statistical analysis for Georgia Power Company's Plant Yates AP-2. The analysis complies with the federal rule for the Disposal of Coal Combustion Residuals from Electric Utilities (CCR Rule, 2015), the Georgia Environmental Protection Division (EPD) Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the United States Environmental Protection Agency (USEPA) Unified Guidance (2009).

Sampling for the Appendix III parameters began in 2016, and at least 8 background samples were collected at each of the groundwater monitoring wells. Semi-annual sampling of the majority of Appendix IV constituents has been performed for several years in accordance with the Georgia Department of Natural Resources, Environmental Protection Division groundwater monitoring regulations. A list of all parameters is provided below.

The monitoring well network, as provided by Southern Company Services, consists of the following:

- **Upgradient wells:**
  - **AP-1:** YGWA-47

        - **AP-2:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S, and YGWA-30I
        - **Gypsum Landfill:** GWA-2
        - **AMA-R6:** YGWA-17S, YGWA-18I, YGWA-18S, YGWA-20S, YGWA-21I, YGWA-39, YGWA-40, YGWA-4I, YGWA-5D, and YGWA-5I
    - **Downgradient wells:** YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IB

Note that well YGWC-29IB was installed as a replacement well for YGWC-29IA and was first sampled in February 2024. Data from downgradient wells YGWC-29IA and YGWC-29IB were combined and are plotted under well YGWC-29IB. In the current analysis, reported observations from the August 2024 sample event for Appendix III constituents at all downgradient wells are compared to interwell prediction limits for Appendix III constituents.

When a minimum of 8 samples are collected from new well YGWC-29IB, the Mann-Whitney test of medians will be used to evaluate whether the medians are similar to those from previously installed well YGWC-29IA. When the medians are statistically different for Appendix IV constituents at the 99% confidence level, the historical record will be truncated so that only data from new well YGWC-29IB in order to be more representative of present-day groundwater quality, and will be evaluated with confidence intervals compared to respective Groundwater Protection Standards.

All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed by Kristina Rayner, Founder and Senior Statistician of Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms "parameters" and "constituents" are used interchangeably.

- **Appendix III** (Detection Monitoring) **-** boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) **–** antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of Appendix IV downgradient well/constituent pairs containing 100% non-detects follows this letter.

Combined upgradient well data from all units at Plant Yates are utilized to construct statistical limits for Appendix III and IV parameters. Although upgradient well GWA-2 was not sampled during the August 2024 event, data from this well are plotted on time series and box plots, and used to construct interwell prediction limits and upper tolerance limits.

For all constituents, a substitution of the most recent reporting limit is used for non-detect data and this generally gives the most conservative limit in each case. For interwell prediction and tolerance limits, a single reporting limit substitution is used across upgradient wells for a given parameter. Regarding the case of cobalt, due to varying detection limits in individual wells, the most recent reporting limit of 0.005 mg/L was substituted across all wells for all calculations and reports. During the previous event, elevated reporting limits occurred for beryllium, boron, and lithium due to higher dilution factors at some wells; therefore, current reporting limits of 0.0005 mg/L, 0.04 mg/L, and 0.03 mg/L were substituted across all wells for each respective constituent.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the background screening performed in 2017 and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals for antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are non-

detects, a nonparametric test is utilized. While the false positive rate associated with the parametric prediction limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric prediction limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling non-detects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% non-detects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% non-detects, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for non-detects is the most recent practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% non-detects, the Kaplan-Meier non-detect adjustment is applied to the background data for parametric limits. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% non-detects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Update – Appendix III and IV Constituents - Conducted in March 2020

Outlier Analysis

The original background screening was conducted in 2017 by MacStat Consulting. Values identified as outliers were flagged in the database and excluded prior to construction of statistical limits. Interwell prediction limits, combined with a 1-of-2 resample plan, were recommended. During the March 2020 1st semi-annual analysis, data were screened for the purpose of updating the statistical limits as described below.

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at upgradient wells for Appendix III and all wells for Appendix IV parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, a couple outliers were identified. While this is not the case in the present data set, when the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values may be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Only one of the outliers identified by Tukey's method (combined radium 226 + 228 in downgradient well YGWC-26I) was flagged in the database as all other values were either similar to remaining measurements within the same well and neighboring wells, or the values were reported non-detects. When any values are flagged in the database as outliers, they are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

Trend Test Evaluation

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters

to identify statistically significant increasing or decreasing. In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses for the Appendix III and IV parameters showed statistically significant decreasing trends for a handful of constituents and statistically significant increasing trends for calcium, cobalt, combined radium 226 + 228, and sulfate. Most of the trends noted were relatively low in magnitude when compared to average concentrations, and the background time period is short with only three years of record, making it difficult to separate trends from normal year-to-year variation; therefore, no adjustments were made to the data sets. If the observed decreasing or increasing trends persist over a longer time frame, some records may need to be truncated.

Summary of Background Update Conducted in 2024

Outlier Analysis

Time series plots were used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at all upgradient wells for Appendix III and Appendix IV parameters were formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits. When the most recent value is identified as an outlier, values are not flagged in the database at this time as the measurements may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e., measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Using the Tukey's box plot method, several outliers were identified and both Tukey's test and visual screening confirmed values flagged from previous analyses (Figure C). An exception is for one detected value of 6.3 s.u. for pH at upgradient well YGWA-47 that

was previously flagged as an outlier because it was high during a single event compared to all other values at neighboring wells. However, when compared among pooled upgradient well data, this value is no longer spurious and was unflagged during this analysis. Although not identified by Tukey's test due to the high percentage of non-detects, elevated concentrations for cobalt at upgradient well GWA-2 remain flagged to reduce variation in the record and maintain statistical limits that are conservative (i.e., lower) from a regulatory perspective.

When any values are flagged in the database as outliers, the measurements are plotted in a disconnected and lighter symbol on the time series graph. The accompanying data pages will display the flagged value in a lighter font as well. A substitution of the most recent reporting limit was applied when varying detection limits existed in data. When the reporting limit was higher than the CCR-rule specified levels discussed below, non-detects were substituted with one half the reporting limit.

Seasonality

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

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 each upgradient well to identify statistically significant increasing or decreasing trends (Figure D). In the absence of suspected contamination, significant trending data are typically not included as part of the background data used for construction of prediction limits. This step serves to eliminate the trend and, thus, reduce variation in background. When statistically significant decreasing trends are present, all available data are evaluated to determine whether earlier concentration levels are significantly different than current reported concentrations and will be deselected as necessary. When any records of data are truncated for the reasons above, a summary report will be provided to show the date ranges used in construction of the statistical limits.

The results of the trend analyses showed several statistically significant decreasing and increasing trends for the Appendix III and IV parameters. However, the trends noted were relatively low in magnitude compared to average pooled upgradient concentrations and,

therefore, no adjustments were made to the data sets at this time. If the observed decreasing or increasing trends persist over a longer time frame and influence resulting statistical limits, some records may need to be truncated.

Statistical Analysis of Appendix III Parameters – August 2024

Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were reassessed 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. During the previous analysis, the data were not normally distributed when constructing the statistical limit for TDS which resulted in a nonparametric limit. Therefore, the highest value observed during the February 2024 event at upgradient well YGWA-5D was flagged for this constituent in order to maintain a statistical limit that is conservative (i.e., lower) from a regulatory perspective. As mentioned above, a previously flagged value for pH at upgradient well YGWA-47 was unflagged during this analysis. 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 2024 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The August 2024 sample from each downgradient well is compared to the background limit to determine whether initial exceedances are present.

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase (SSI) is identified and further research would be required to identify the cause of the exceedance (i.e., impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Prediction limit exceedances were noted for the following Appendix III well/constituent pairs:

- Boron: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29IB
- Chloride: YGWC-26I, YGWC-26S, YGWC-27S, and YGWC-28S

Trend Test Evaluation – Appendix III

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable at the 99% confidence level (Figure F). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

- Boron: YGWA-39, YWGA-5D (both upgradient), and YGWC-26S
- Chloride: GWA-2, YGWA-17S, YGWA-18I, YGWA-20S, and YGWA-40 (all upgradient)

Decreasing:

- Boron: YGWA-40 (upgradient), YGWC-26I, and YGWC-27S
- Chloride: YGWA-3D, YGWA-3I, YGWA-47, YGWA-5D (all upgradient), YGWC-26I, YGWC-26S, and YGWC-27S

A complete list of trend test results may be found following this letter in the Trend Test Summary Table.

Statistical Analysis of Appendix IV Parameters – August 2024

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. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis.

The reported measurements of cobalt from August 2020 through August 2022 in upgradient well GWA-2 were previously flagged as outliers as these measurements were two orders of magnitude higher than remaining measurements at this well. This step results in statistical limits that are conservative (i.e., lower) from a regulatory perspective. If further studies indicate these measurements represent variation in groundwater quality, the values will be re-evaluated for construction of interwell prediction limits. No additional values were flagged as outliers and a summary of flagged outliers follows this report (Figure C).

Interwell Upper Tolerance Limits

Interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data through August 2024 for Appendix IV constituents (Figure G). Parametric tolerance limits are calculated, with a target of 95% confidence and 95% coverage, 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 constructed using the highest background measurement. The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples.

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 2024 were constructed for each of the Appendix IV constituents in each downgradient well with 8 or more samples (Figure I). As mentioned above, confidence intervals were not required for downgradient well/constituent pairs containing 100% non-detects since 2016.

The Sanitas software was used to calculate the tolerance limits and the confidence intervals, either parametric or nonparametric, depending on the data distribution and percentage of non-detects. When data followed a normal or transformed-normal distribution, parametric confidence intervals were used for Appendix IV parameters. Nonparametric confidence intervals, which use the appropriate order statistics, depending on the sample size, as interval limits, were constructed when data did not follow a normal or transformed-normal distribution or when there were greater than 50% non-detects. The lower confidence limit, which is constructed with 99% confidence for parametric confidence intervals, is compared to the GWPS prepared as described above. The achievable confidence level associated with nonparametric confidence intervals is dependent upon the number samples available.

Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of the confidence interval results, along with graphical comparison against GWPS follow this letter. No exceedances were identified.

Trend Test Evaluation – Appendix IV

Data at wells with confidence interval exceedances are further evaluated using the Sen's Slope/Mann Kendall trend test at the 95% confidence level to determine whether concentrations are statistically increasing, decreasing, or stable. Although the trend tests for Assessment monitoring pairs were previously evaluated using 99% confidence, the 95% confidence level more rapidly identifies statistically significant trends. Additionally, the 95% confidence level is recommended in cases with limited sample sizes and, particularly, for new assessment wells. Upgradient wells are included in the trend analyses to identify whether similar patterns exist upgradient of the site for the same constituents. When trends are present in upgradient wells, it is an indication of variability in groundwater quality unrelated to practices at the site. Since no exceedances were identified, no trend tests were required.

Thank you for the opportunity to assist you in the statistical analysis of groundwater quality for Plant Yates AP-2. If you have any questions or comments, please feel free to contact us.

For Groundwater Stats Consulting,

Andrew T. Collins
Project Manager

Kristina L. Rayner
Senior Statistician

100% Non-Detects: Appendix IV Downgradient

Analysis Run 11/7/2024 3:49 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L)
YGWC-28S

Beryllium (mg/L)
YGWC-26I, YGWC-28I, YGWC-28S, YGWC-29IB

Cadmium (mg/L)
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S

Cobalt (mg/L)
YGWC-26I

Lead (mg/L)
YGWC-27I, YGWC-28I

Lithium (mg/L)
YGWC-26S

Molybdenum (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S

Selenium (mg/L)
YGWC-27I, YGWC-27S, YGWC-29IB

Thallium (mg/L)
YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S

Appendix III Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:22 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0326	-128	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.0226	-105	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.3342	-132	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.914	205	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1003	131	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.09204	163	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2393	106	81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.5475	-187	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.01072	-141	-124	Yes	27	3.704	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.0383	-183	-124	Yes	27	0	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.08208	149	124	Yes	27	0	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.1431	-122	-98	Yes	23	0	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04422	-250	-184	Yes	35	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP

Appendix IV Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	GWA-2 (bg)	0	-2.681	-1.96	Yes	41	87.8	n/a	0.05	NP
Barium (mg/L)	YGWA-2I (bg)	-0.0002032	-134	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-3D (bg)	-0.0005074	-250	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-17S (bg)	0.0005801	208	85	Yes	25	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18I (bg)	-0.001001	-236	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18S (bg)	-0.0006772	-137	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-20S (bg)	-0.0003692	-133	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-39 (bg)	0.0043	150	71	Yes	22	9.091	n/a	0.05	NP
Barium (mg/L)	YGWA-40 (bg)	-0.002482	-103	-71	Yes	22	0	n/a	0.05	NP
Barium (mg/L)	YGWA-4I (bg)	-0.0002834	-107	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-5D (bg)	-0.0001426	-92	-90	Yes	26	3.846	n/a	0.05	NP
Beryllium (mg/L)	YGWA-18S (bg)	-0.000006801	-91	-90	Yes	26	42.31	n/a	0.05	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003971	-310	-90	Yes	26	0	n/a	0.05	NP
Cobalt (mg/L)	YGWA-47 (bg)	-0.0007522	-144	-66	Yes	21	4.762	n/a	0.05	NP
Cobalt (mg/L)	YGWA-39 (bg)	-0.000669	-92	-71	Yes	22	40.91	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-21I (bg)	0.1046	112	90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-40 (bg)	-0.1233	-105	-71	Yes	22	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-5D (bg)	-0.1935	-108	-90	Yes	26	0	n/a	0.05	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.01072	-141	-96	Yes	27	3.704	n/a	0.05	NP
Fluoride (mg/L)	YGWA-39 (bg)	0	-79	-76	Yes	23	65.22	n/a	0.05	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.0007084	-110	-90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3D (bg)	0.0005738	158	90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3I (bg)	0.001358	190	90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-47 (bg)	-0.000209	-119	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-18I (bg)	-0.000215	-154	-90	Yes	26	7.692	n/a	0.05	NP
Lithium (mg/L)	YGWA-39 (bg)	0.0009005	122	71	Yes	22	4.545	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-1I (bg)	-0.000784	-216	-90	Yes	26	3.846	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-2I (bg)	0.0004044	137	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-3D (bg)	0.0003871	166	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-3I (bg)	0.0004966	102	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-5D (bg)	-0.0004224	-115	-71	Yes	22	13.64	n/a	0.05	NP
Selenium (mg/L)	YGWA-17S (bg)	0	124	85	Yes	25	76	n/a	0.05	NP

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**0.16**	**n/a**	**8/21/2024**	**0.59**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**8/21/2024**	**0.68**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**8/21/2024**	**1.9**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**8/22/2024**	**0.92**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**8/22/2024**	**1.8**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**8/22/2024**	**2.1**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**8/22/2024**	**0.82**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Chloride (mg/L)	**YGWC-26I**	**12.7**	**n/a**	**8/21/2024**	**15.8**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.7**	**n/a**	**8/21/2024**	**15.2**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**12.7**	**n/a**	**8/22/2024**	**13.9**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**12.7**	**n/a**	**8/22/2024**	**18.2**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**0.16**	**n/a**	**8/21/2024**	**0.59**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**8/21/2024**	**0.68**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**8/21/2024**	**1.9**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**8/22/2024**	**0.92**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**8/22/2024**	**1.8**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**8/22/2024**	**2.1**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**8/22/2024**	**0.82**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	8/21/2024	16.7	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	8/21/2024	11.6	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	8/21/2024	26.9	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	8/22/2024	21.3	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	8/22/2024	28.8	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	8/22/2024	30.4	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29IB	37	n/a	8/22/2024	11.2	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**12.7**	**n/a**	**8/21/2024**	**15.8**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.7**	**n/a**	**8/21/2024**	**15.2**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-27I	12.7	n/a	8/21/2024	12.2	No	425	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-27S**	**12.7**	**n/a**	**8/22/2024**	**13.9**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-28I	12.7	n/a	8/22/2024	10.9	No	425	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-28S**	**12.7**	**n/a**	**8/22/2024**	**18.2**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29IB	12.7	n/a	8/22/2024	10.5	No	425	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	8/21/2024	0.098J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	8/21/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	8/21/2024	0.12	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	8/22/2024	0.075J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	8/22/2024	0.08J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	8/22/2024	0.14	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29IB	0.68	n/a	8/22/2024	0.071J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	8/21/2024	6.31	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	8/21/2024	6.17	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	8/21/2024	7.28	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	8/22/2024	6.27	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	8/22/2024	6.19	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	8/22/2024	6.23	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29IB	8.39	4.4	8/22/2024	5.86	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	8/21/2024	83.5	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	8/21/2024	90.9	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	8/21/2024	4.2	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	8/22/2024	15.7	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	8/22/2024	9	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	8/22/2024	5.5	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29IB	160	n/a	8/22/2024	39.7	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	319	n/a	8/21/2024	237	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	319	n/a	8/21/2024	215	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	319	n/a	8/21/2024	184	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	319	n/a	8/22/2024	130	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	319	n/a	8/22/2024	193	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	319	n/a	8/22/2024	226	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29IB	319	n/a	8/22/2024	154	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**-0.03859**	**-145**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01447**	**108**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-27S**	**-0.06033**	**-131**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-39 (bg)**	**0.01793**	**115**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01202**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-5D (bg)**	**0.0007069**	**99**	**98**	**Yes**	**23**	**26.09**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.0326**	**-128**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.0226**	**-105**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26I**	**-0.3595**	**-137**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.2958**	**-102**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-27S**	**-1.383**	**-189**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3342**	**-132**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.914**	**205**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.1003**	**131**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.09204**	**163**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2393**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5475**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0003528	-52	-98	No	23	8.696	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001231	72	98	No	23	43.48	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-15	-98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	10	98	No	23	82.61	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-7	-98	No	23	86.96	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	32	98	No	23	65.22	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-9	-98	No	23	91.3	n/a	0.01	NP
Boron (mg/L)	**YGWC-26I**	**-0.03859**	**-145**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01447**	**108**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-27I	0.02326	37	98	No	23	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-27S**	**-0.06033**	**-131**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-28I	-0.08449	-91	-98	No	23	0	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	-0.04398	-59	-98	No	23	0	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0002753	-20	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0006852	91	98	No	23	21.74	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-6	-98	No	23	82.61	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.001019	79	98	No	23	30.43	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-1	-98	No	23	91.3	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-14	-98	No	23	60.87	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01793**	**115**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01202**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	25	98	No	23	73.91	n/a	0.01	NP
Boron (mg/L)	**YGWA-5D (bg)**	**0.0007069**	**99**	**98**	**Yes**	**23**	**26.09**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-5I (bg)	0	3	98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWC-29IB	-0.009648	-63	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.08864	65	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-52	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01344	-54	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.01855	-67	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.02934	-82	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.0326**	**-128**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.0226**	**-105**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26I**	**-0.3595**	**-137**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.2958**	**-102**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-27S**	**-1.383**	**-189**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-28S	-0.2493	-97	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3342**	**-132**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.914**	**205**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.1003**	**131**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.09349	79	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.09204**	**163**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.05993	-61	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.4784	81	81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2393**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.08971	97	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5475**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.02938	38	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**

Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:44 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	447	n/a	n/a	88.14	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	495	n/a	n/a	75.35	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	495	n/a	n/a	2.222	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	479	n/a	n/a	80.17	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	479	n/a	n/a	94.99	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	447	n/a	n/a	82.33	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	489	n/a	n/a	68.92	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	474	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	494	n/a	n/a	62.96	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	449	n/a	n/a	87.75	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	474	n/a	n/a	27.43	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	403	n/a	n/a	89.58	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	438	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	477	n/a	n/a	92.87	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	413	n/a	n/a	97.58	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 2 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	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 Interval Summary Table - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/8/2024, 1:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	No	22	0.002687	0.0008107	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	22	0.002877	0.0003975	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.0014	0.006	No	22	0.002806	0.0006495	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	22	0.002877	0.0005756	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-28I	0.003	0.0023	0.006	No	22	0.002968	0.0001492	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29IB	0.003	0.0013	0.006	No	22	0.002923	0.0003624	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	26	0.004815	0.0006546	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	26	0.004823	0.0006408	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0009	0.01	No	26	0.003632	0.00202	65.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	26	0.004881	0.000608	96.15	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	26	0.004888	0.0005687	96.15	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00075	0.01	No	26	0.003643	0.002015	65.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29IB	0.005	0.0033	0.01	No	26	0.004935	0.0003334	96.15	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06502	0.06137	2	No	26	0.0632	0.003752	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02821	0.02609	2	No	26	0.02715	0.002179	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07354	0.0661	2	No	26	0.06982	0.00763	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27S	0.09908	0.08018	2	No	26	0.08755	0.02182	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08722	0.07794	2	No	26	0.08258	0.00952	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2194	0.2003	2	No	26	0.205	0.0338	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29IB	0.0781	0.059	2	No	26	0.07441	0.03027	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0001273	0.00009142	0.004	No	24	0.0002126	0.0001567	20.83	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27I	0.0001505	0.0001065	0.004	No	24	0.0002155	0.0001383	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	24	0.0004657	0.0001165	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.00013	0.005	No	24	0.0002725	0.0001758	20.83	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	24	0.0004992	0.000004082	95.83	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29IB	0.00028	0.00016	0.005	No	24	0.0003312	0.0003599	12.5	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.005	0.0008	0.1	No	24	0.003727	0.002019	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.005	0.0012	0.1	No	24	0.003083	0.001827	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	24	0.005292	0.001429	95.83	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	No	24	0.004727	0.002668	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	24	0.004434	0.00153	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0034	0.1	No	24	0.004375	0.00152	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29IB	0.005	0.0005	0.1	No	24	0.004812	0.0009186	95.83	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002395	0.00176	0.035	No	26	0.002078	0.0006518	3.846	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01368	0.004193	0.035	No	26	0.016	0.02327	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.002383	0.002008	0.035	No	26	0.002165	0.0004176	3.846	None	x^2	0.01	Param.
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	26	0.004824	0.0008982	96.15	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0011	0.00085	0.035	No	26	0.001068	0.0004477	7.692	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29IB	0.0053	0.0027	0.035	No	26	0.004202	0.001907	65.38	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	0.9014	0.4691	6.92	No	25	0.7354	0.4774	4	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8022	0.5373	6.92	No	26	0.6698	0.2718	3.846	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.715	2.64	6.92	No	26	3.177	1.103	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.944	0.5914	6.92	No	26	0.7677	0.3618	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.798	0.471	6.92	No	26	0.6345	0.3354	3.846	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.8875	0.5445	6.92	No	26	0.716	0.3518	3.846	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29IB	1.045	0.6696	6.92	No	26	0.8572	0.3849	3.846	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	27	0.08326	0.01962	37.04	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	No	27	0.1211	0.08779	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.081	4	No	27	0.1806	0.1112	44.44	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.1701	0.09027	4	No	27	0.1403	0.09932	14.81	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.29	0.078	4	No	27	0.1561	0.1004	18.52	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2312	0.1572	4	No	27	0.2	0.08639	7.407	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-29IB	0.17	0.059	4	No	27	0.1359	0.1025	25.93	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	22	0.0009141	0.0002781	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.0001	0.015	No	22	0.0007886	0.000399	77.27	None	No	0.01	NP (NDs)

Confidence Interval Summary Table - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/8/2024, 1:59 PM

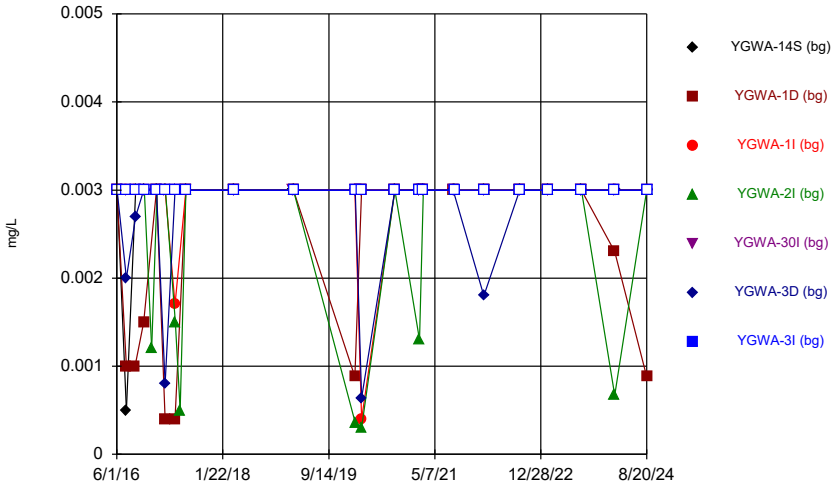
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-27S	0.001	0.00096	0.015	No	22	0.0008362	0.0003269	72.73	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000075	0.015	No	22	0.000787	0.000402	77.27	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29IB	0.001	0.00016	0.015	No	22	0.0008782	0.000314	86.36	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007367	0.006764	0.04	No	26	0.007065	0.0006183	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.00939	0.007557	0.04	No	26	0.008577	0.001995	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	26	0.02777	0.007866	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.006984	0.006501	0.04	No	26	0.006742	0.0004957	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	26	0.02905	0.004844	96.15	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29IB	0.0066	0.0052	0.04	No	26	0.006688	0.002618	3.846	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	20	0.0001851	0.00004586	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	20	0.0001857	0.00004395	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	20	0.0001849	0.00004635	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	No	20	0.000184	0.00004761	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	20	0.0001924	0.00003399	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	20	0.0001926	0.00003309	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29IB	0.0002	0.000047	0.002	No	20	0.0001843	0.00004834	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	No	26	0.004888	0.004157	38.46	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	26	0.004296	0.004235	34.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00082	0.1	No	26	0.006793	0.004496	65.38	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29IB	0.01	0.00099	0.1	No	26	0.009301	0.00247	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0041	0.0019	0.05	No	24	0.002921	0.001194	8.333	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	24	0.004346	0.001506	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	24	0.004842	0.0007757	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	24	0.004833	0.0008165	95.83	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	20	0.0009056	0.0002906	90	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.00011	0.002	No	20	0.0007315	0.0004208	70	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-29IB	0.001	0.00021	0.002	No	20	0.0009605	0.0001766	95	None	No	0.01	NP (NDs)

Table of Contents

FIGURE A.

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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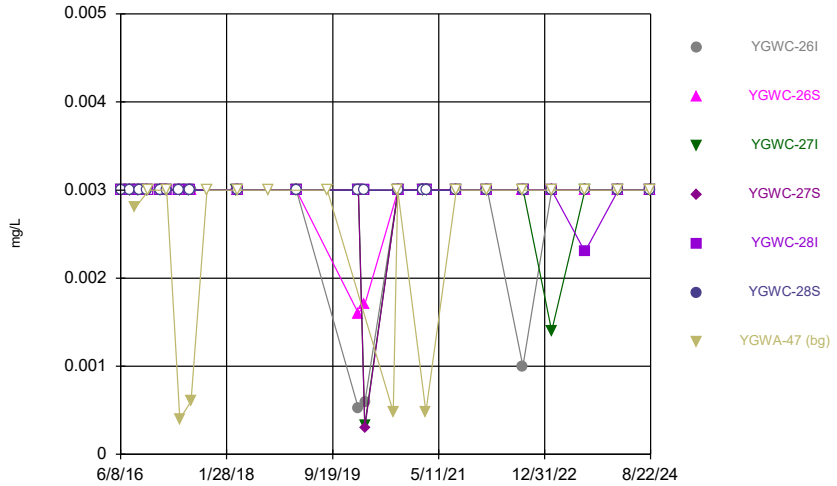

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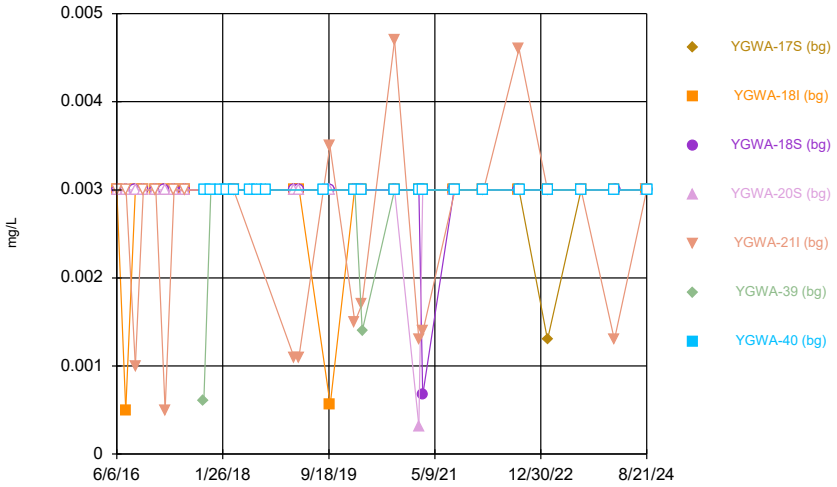

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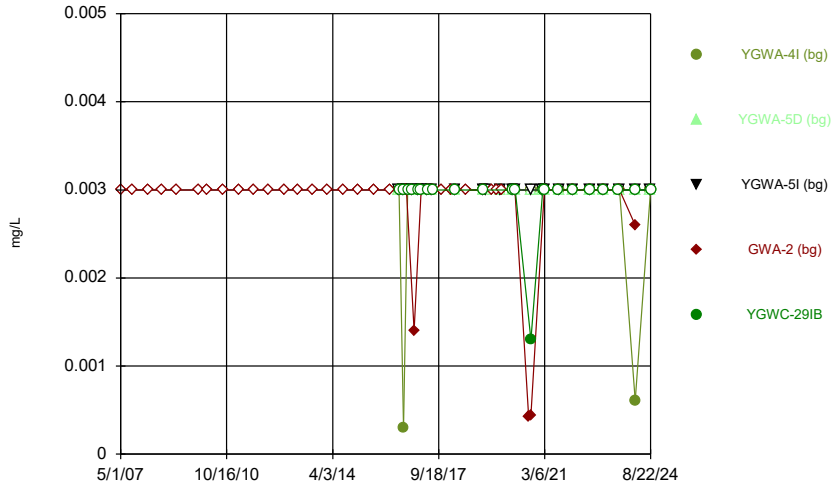

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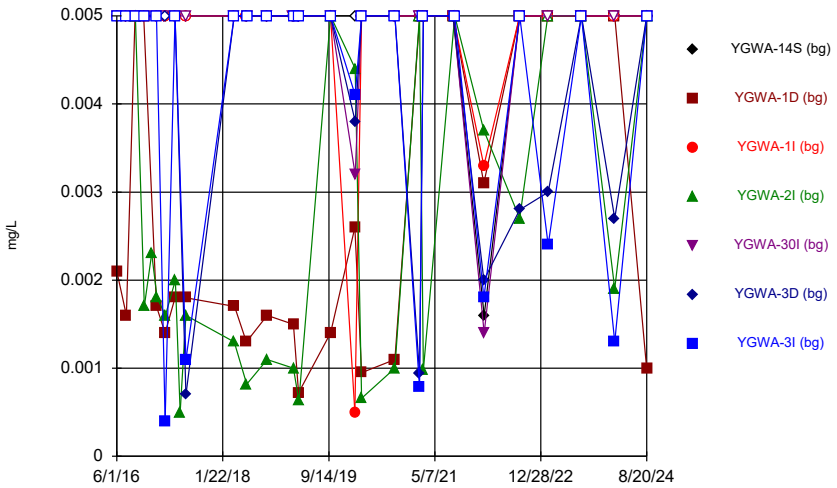

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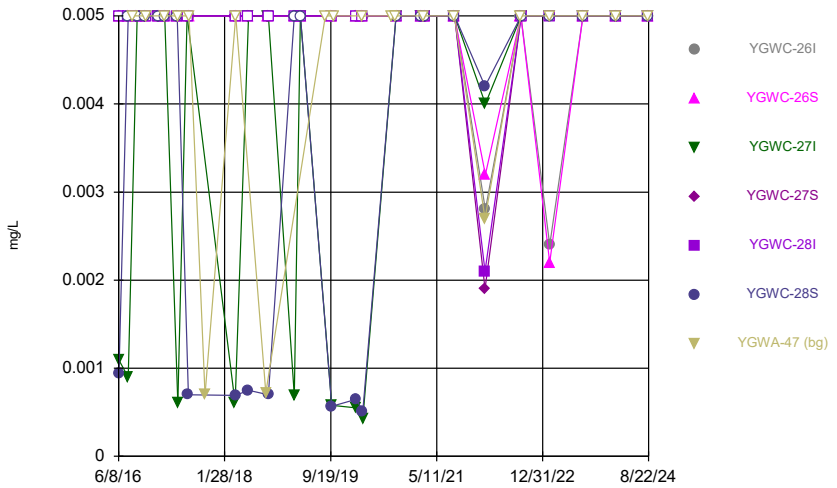

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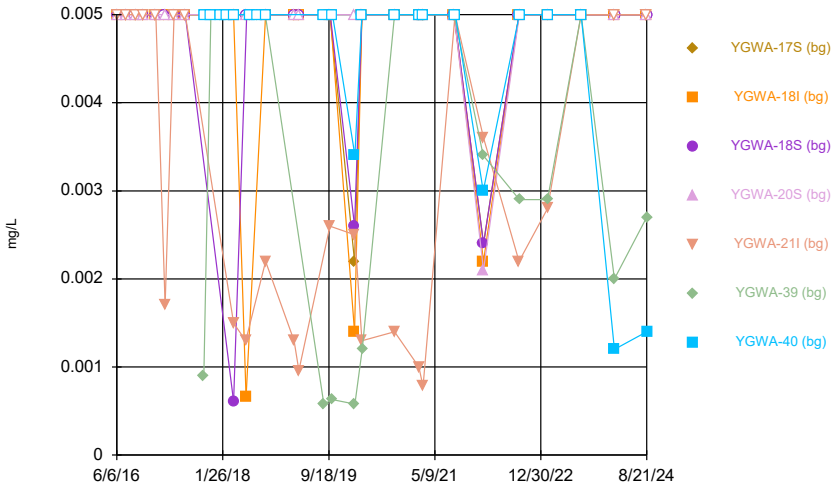

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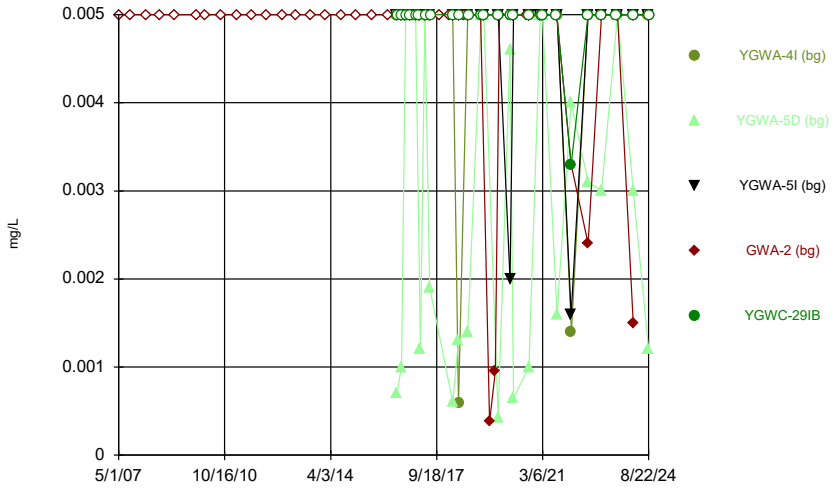

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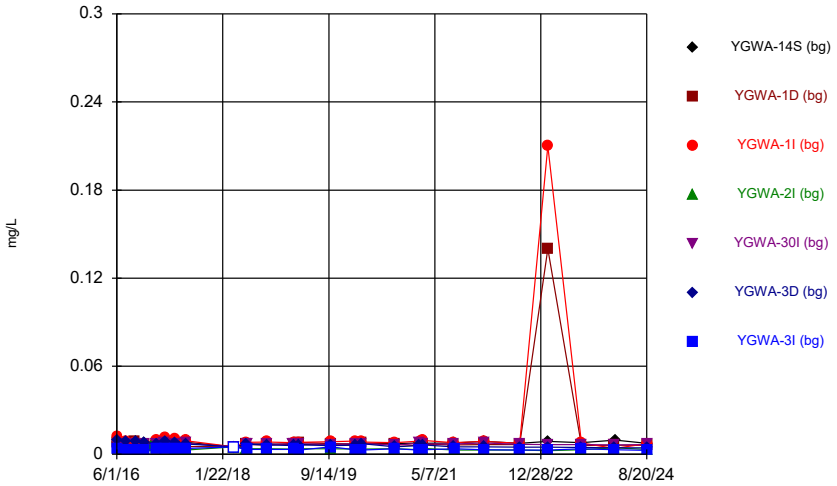

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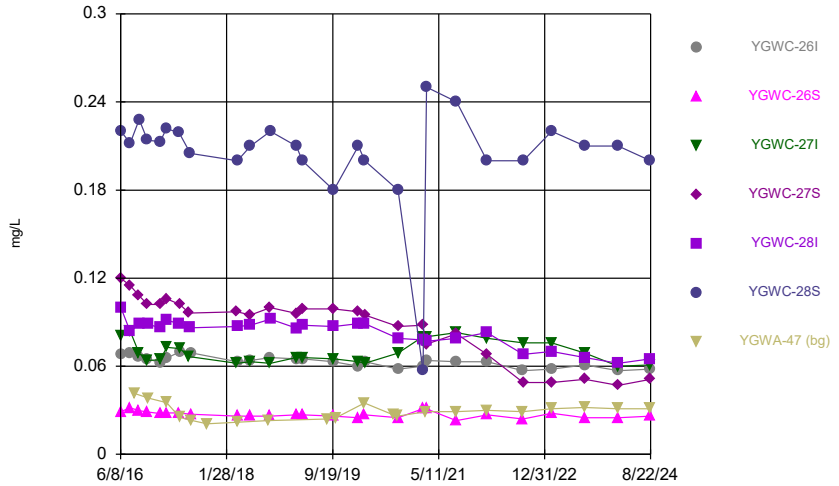

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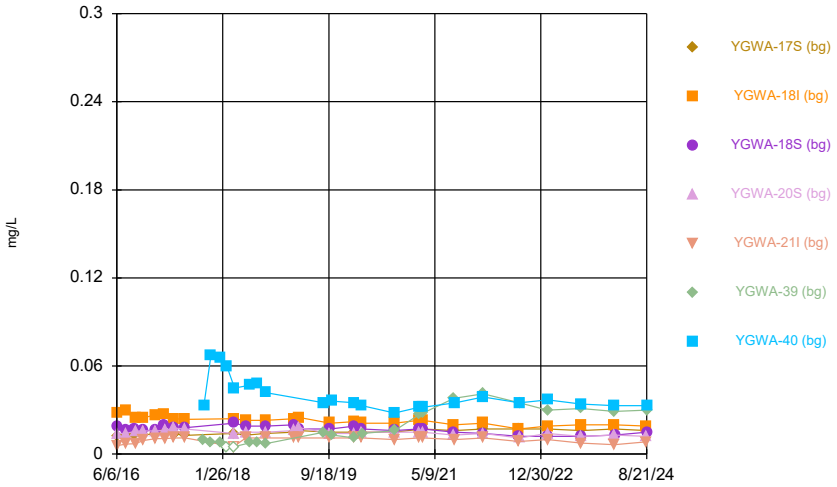

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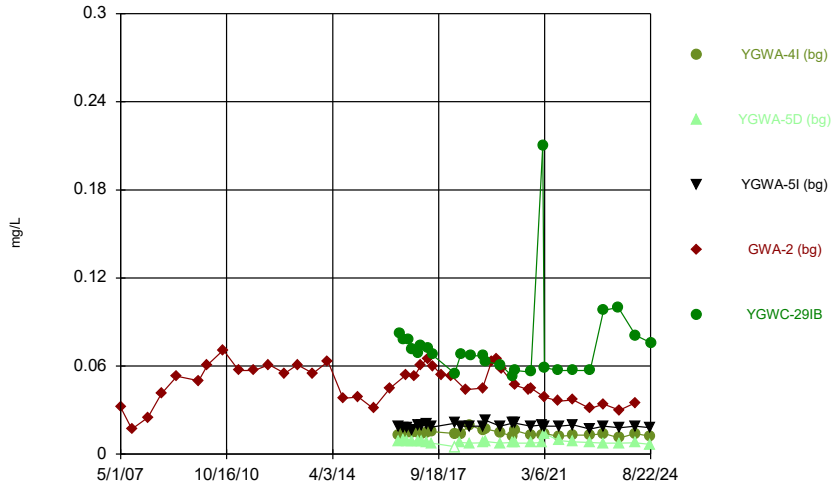

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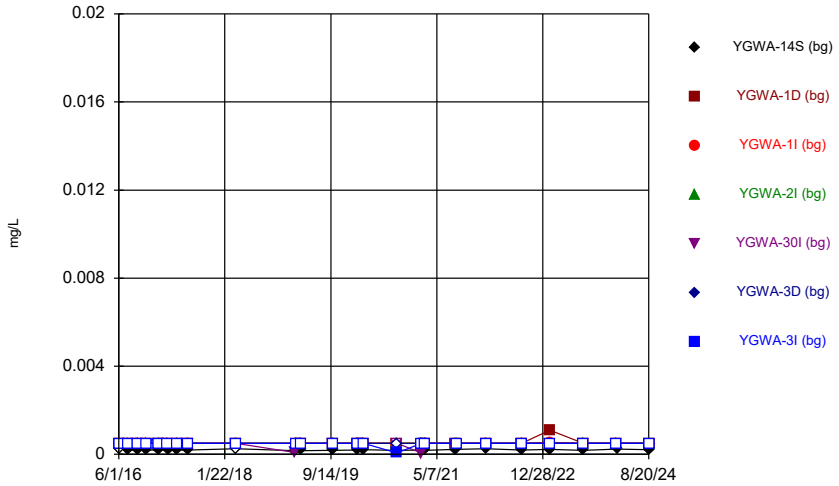

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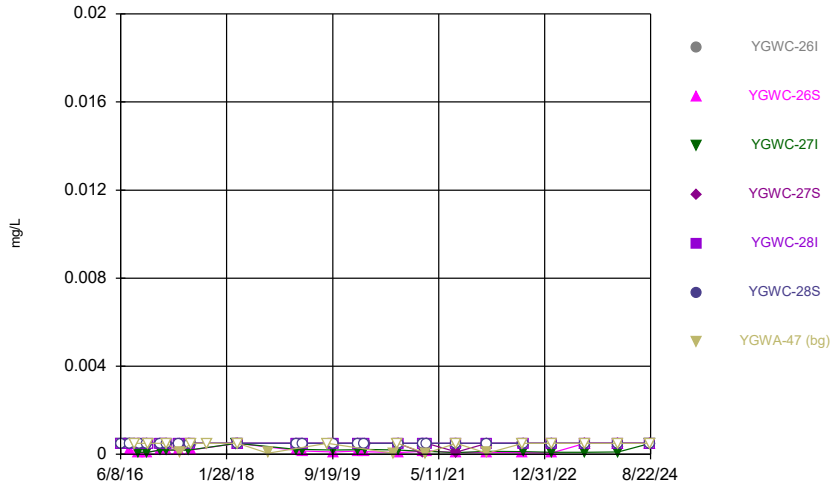
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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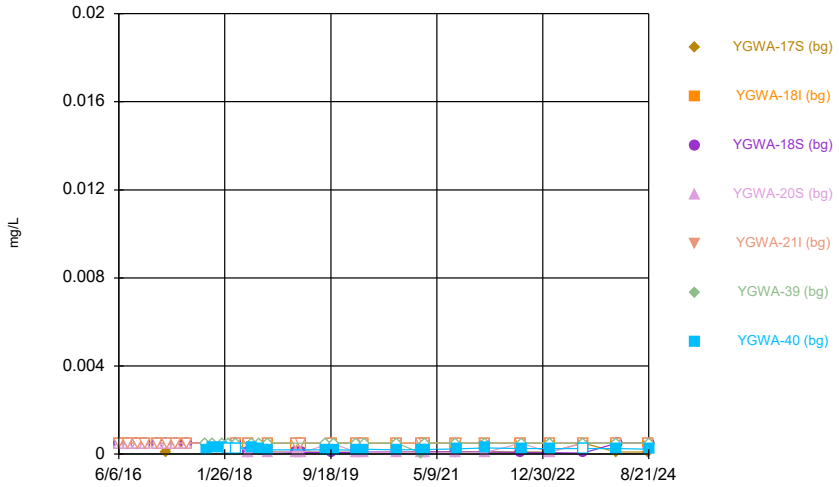
Hollow symbols indicate censored values.

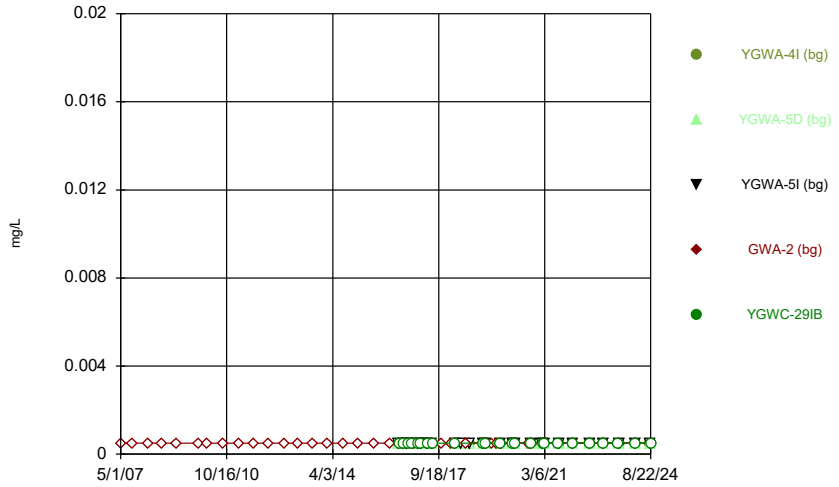
Time Series



Constituent: Beryllium Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

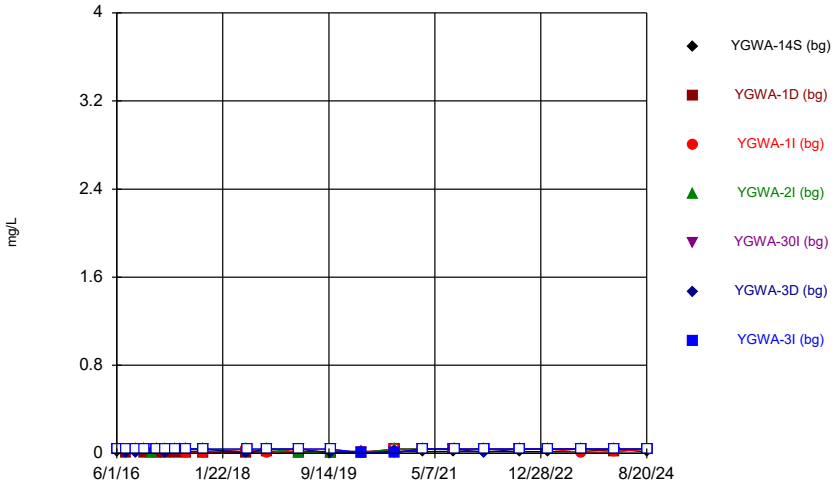
Time Series



Constituent: Beryllium Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

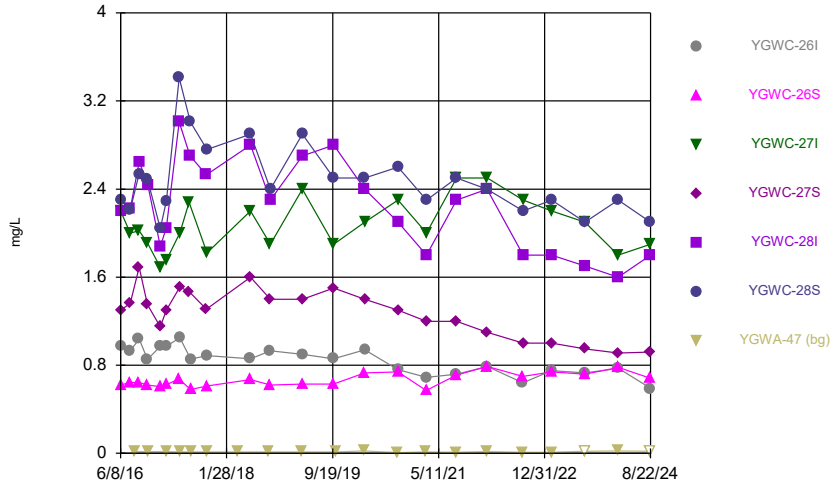
Time Series



Constituent: Boron Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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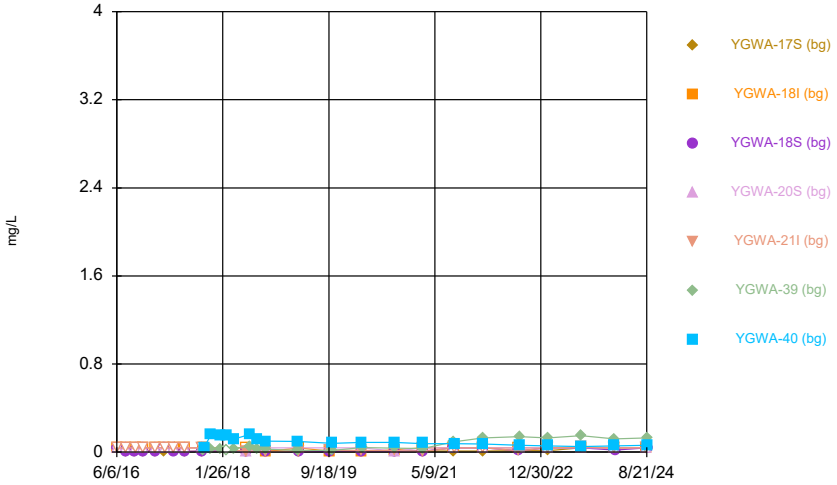
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

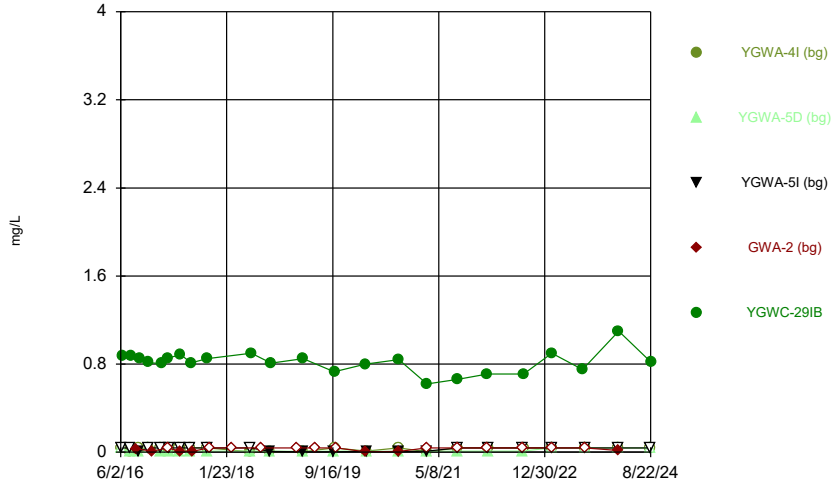
Time Series



Constituent: Boron Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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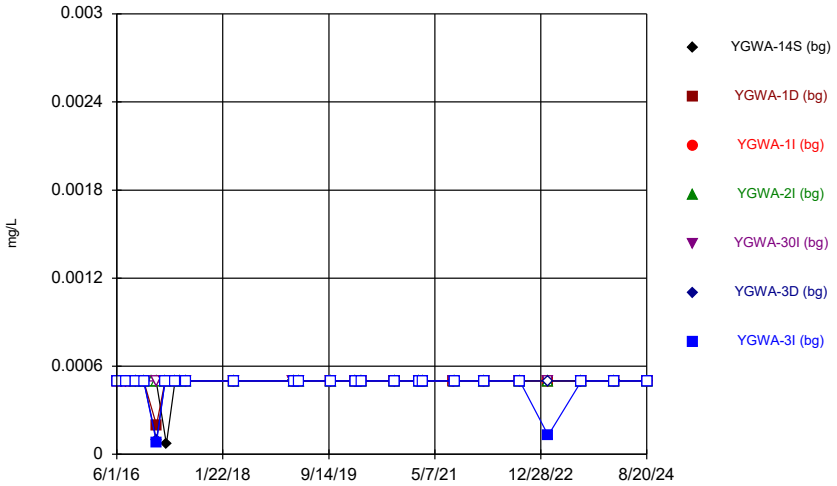
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

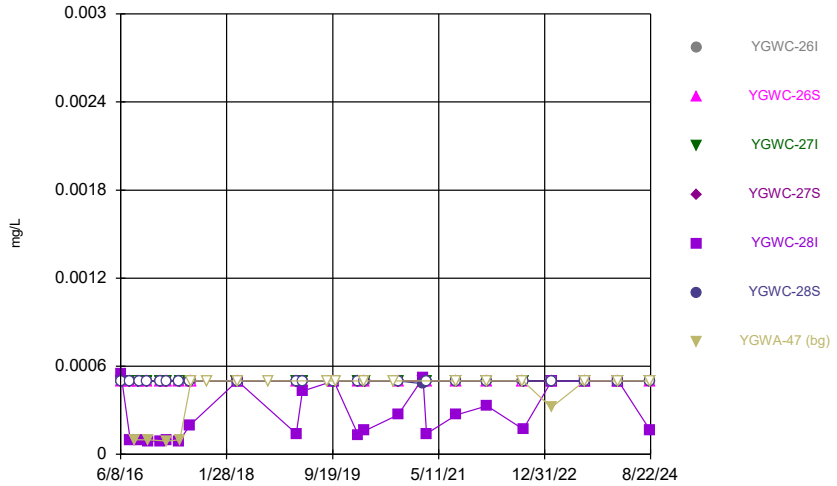
Time Series



Constituent: Cadmium Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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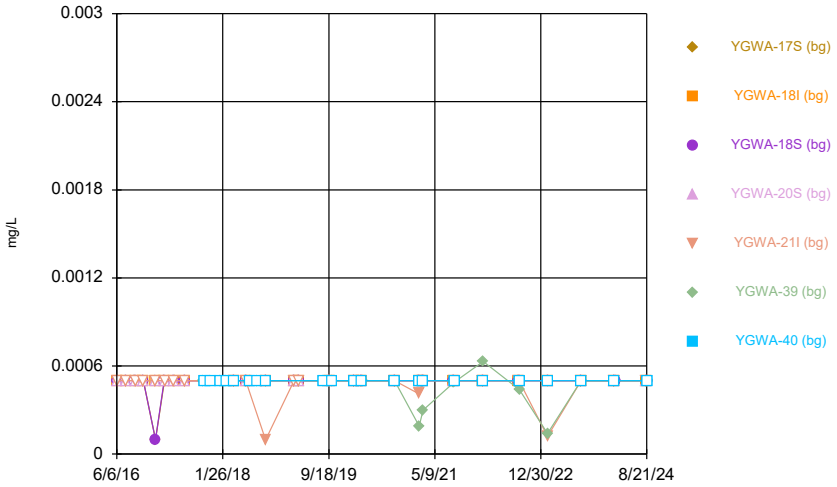
Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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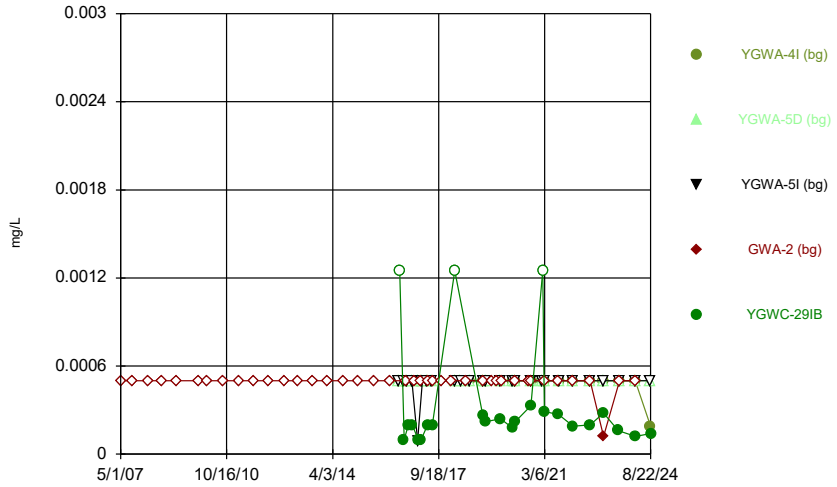
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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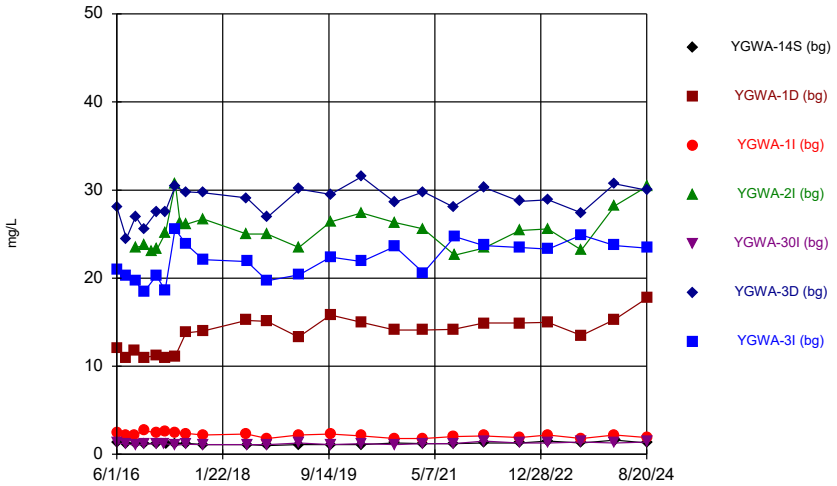
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



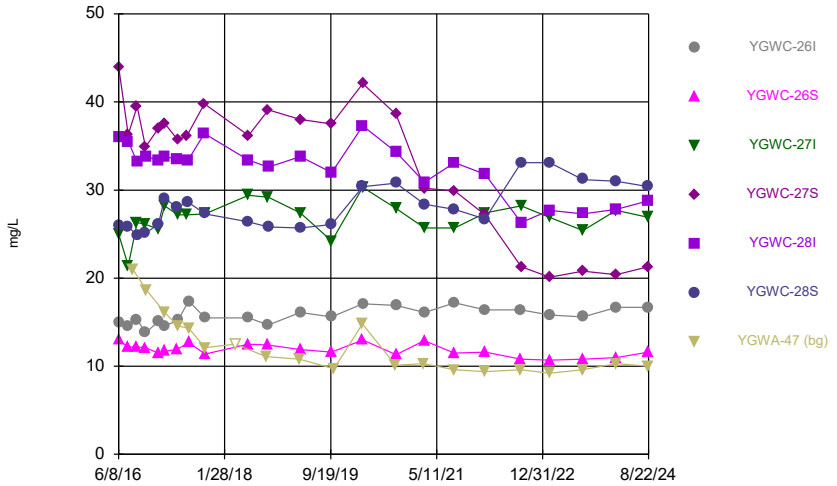
Constituent: Calcium Analysis Run 11/7/2024 2:58 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Time Series



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Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

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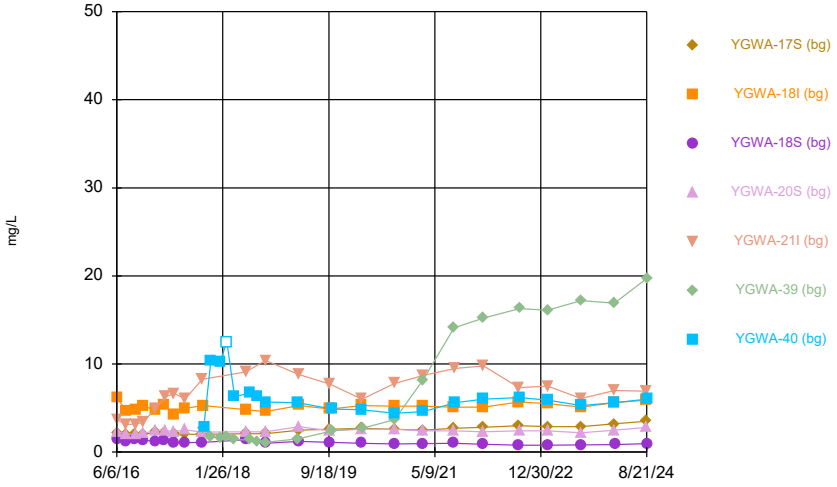

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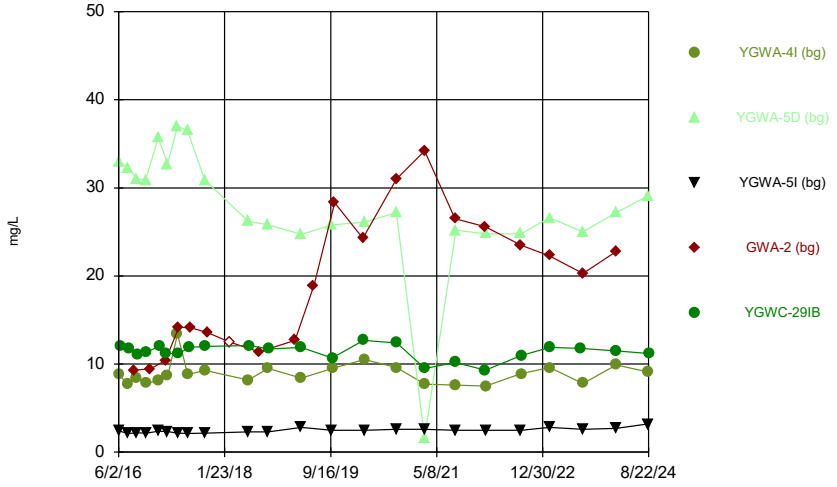
Hollow symbols indicate censored values.

Time Series



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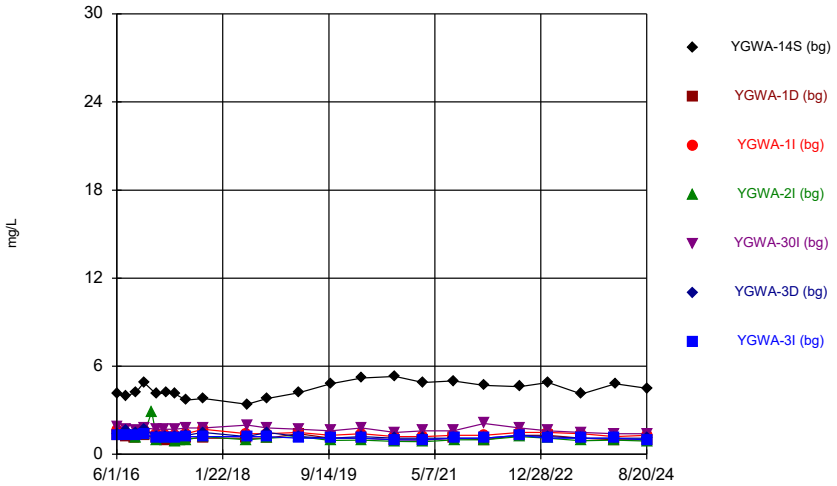
Time Series

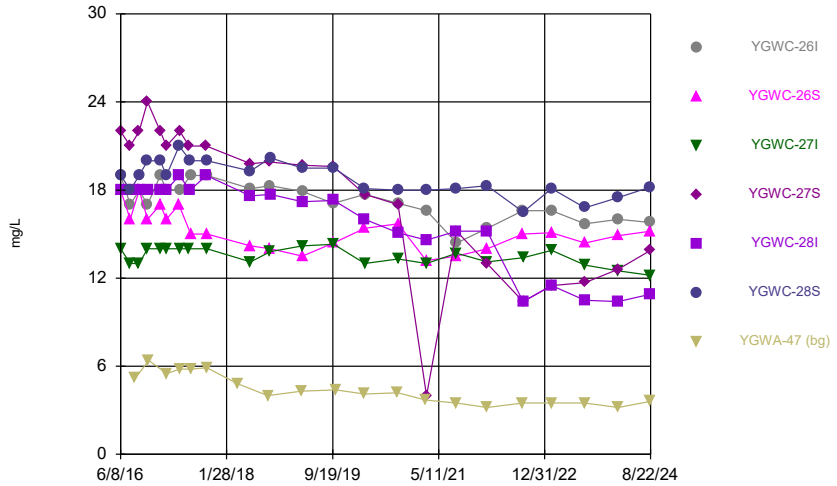


Constituent: Chloride Analysis Run 11/7/2024 2:58 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



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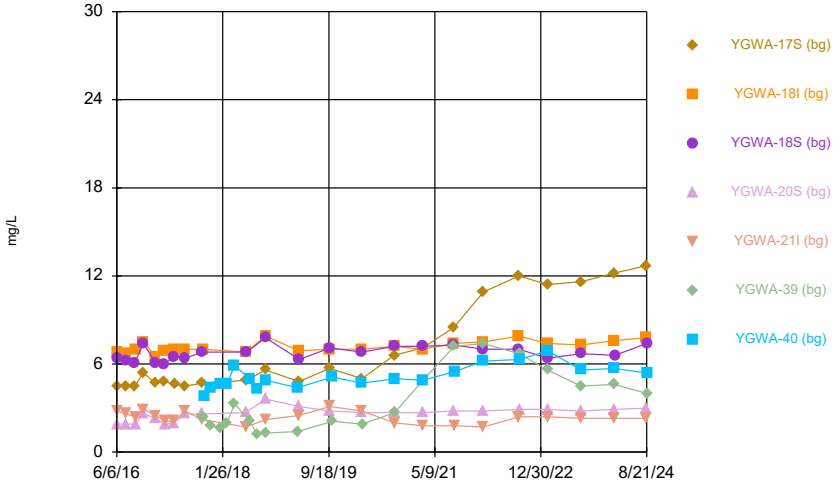
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



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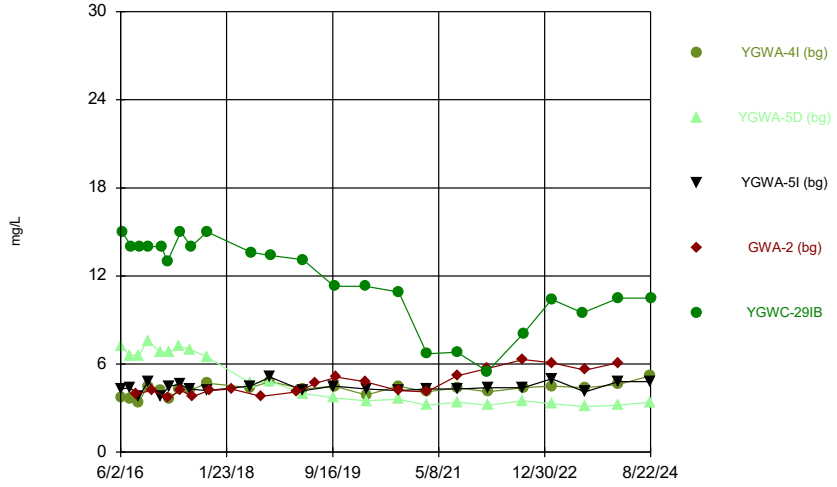
Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



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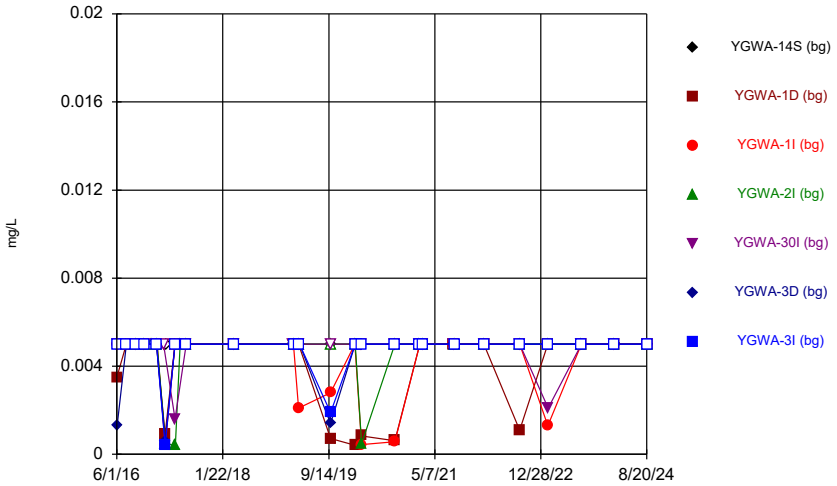
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

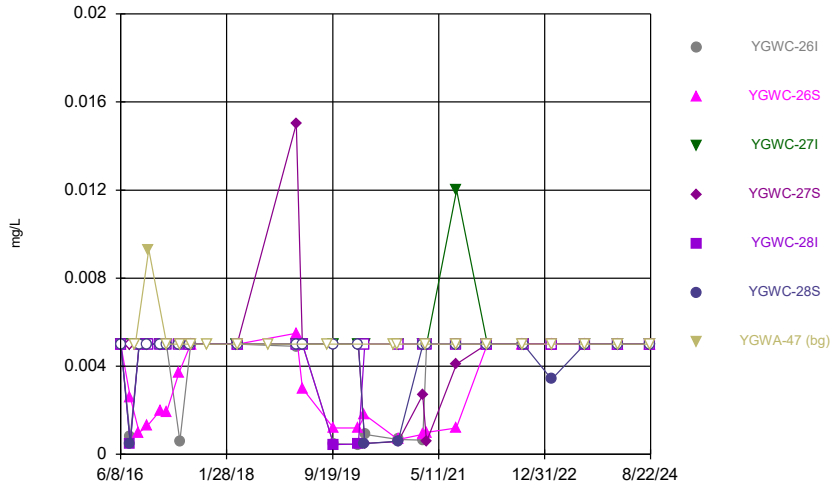
Time Series



Constituent: Chromium Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Chromium Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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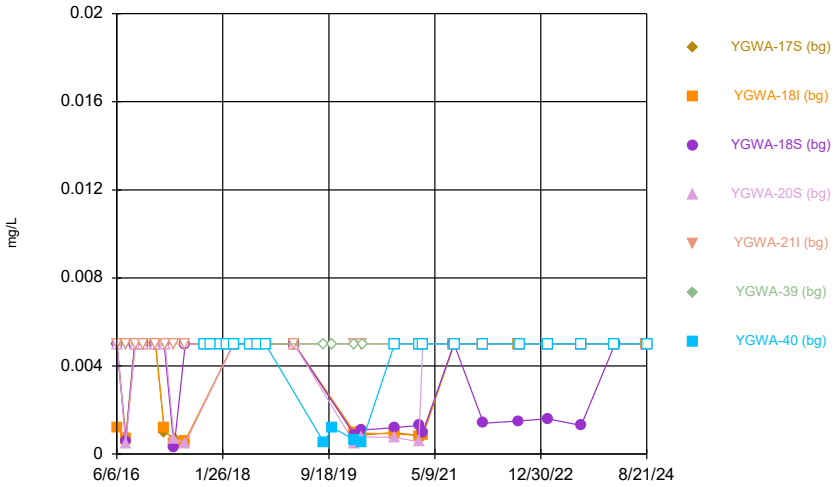

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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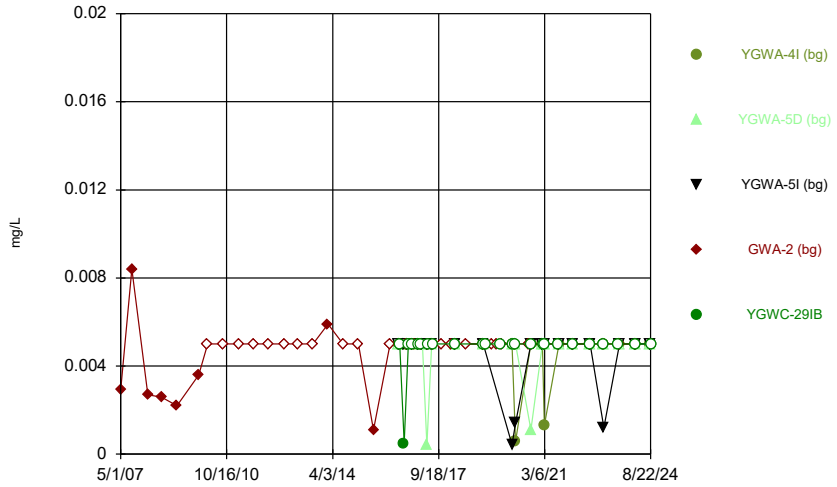
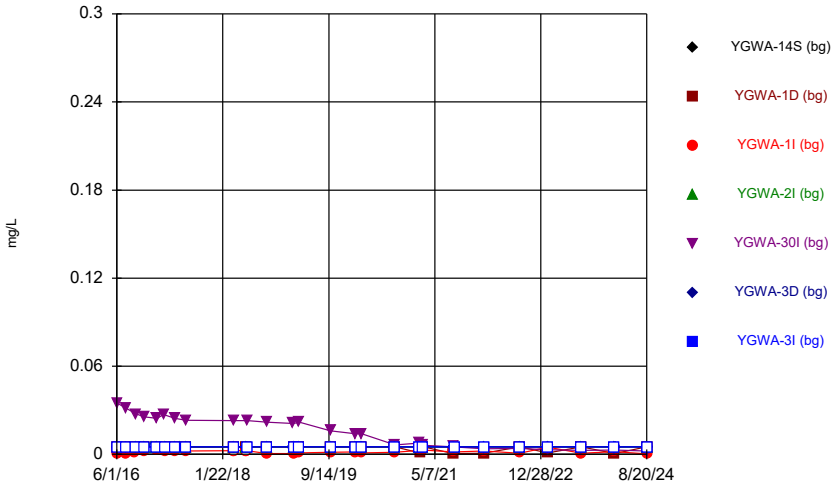


Constituent: Chromium Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

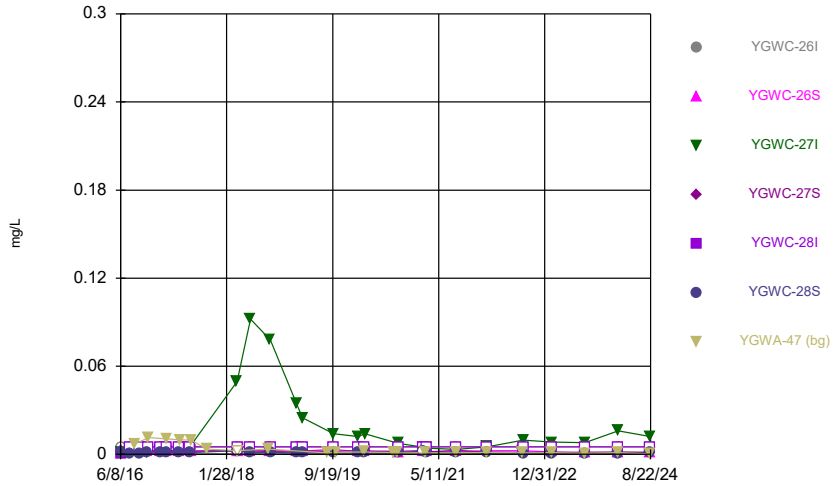
Time Series



Constituent: Cobalt Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

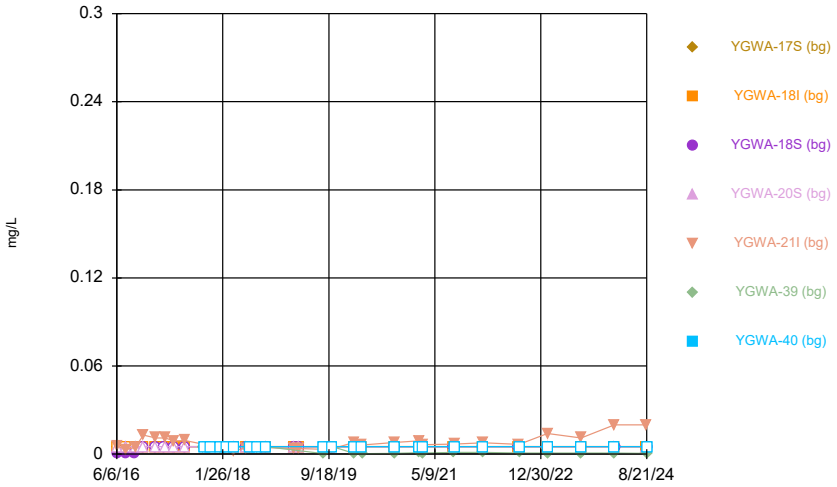
Time Series



Constituent: Cobalt Analysis Run 11/7/2024 2:58 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Cobalt Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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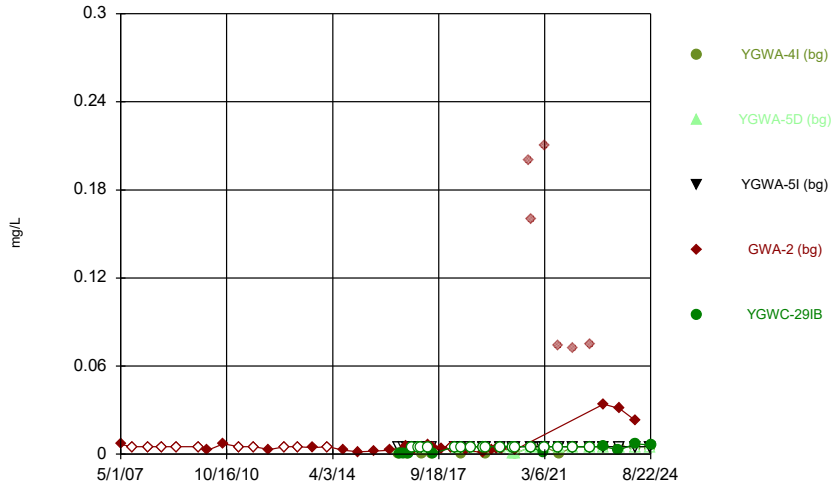

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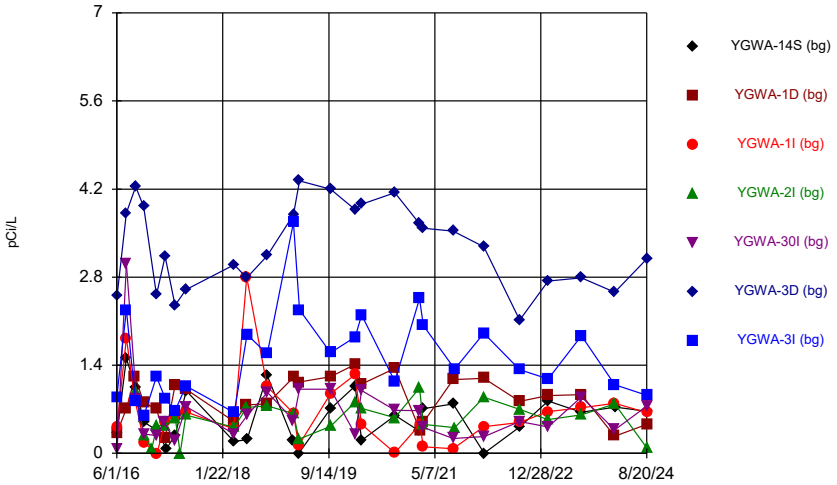
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

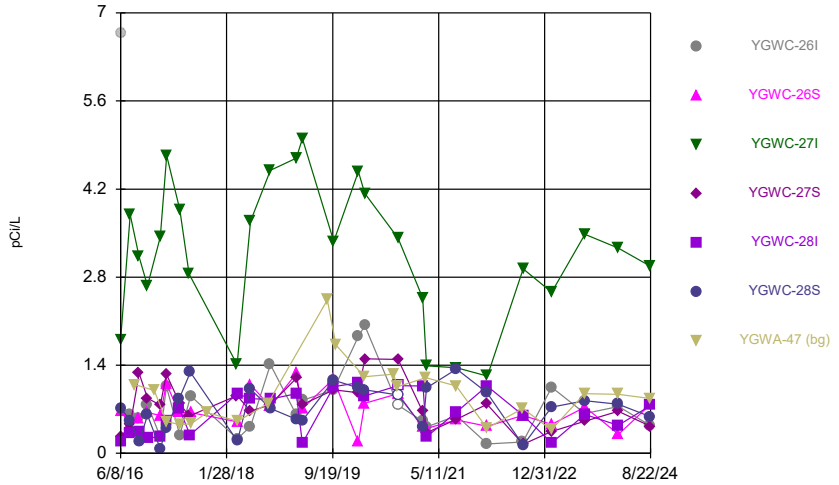


Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 2:59 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

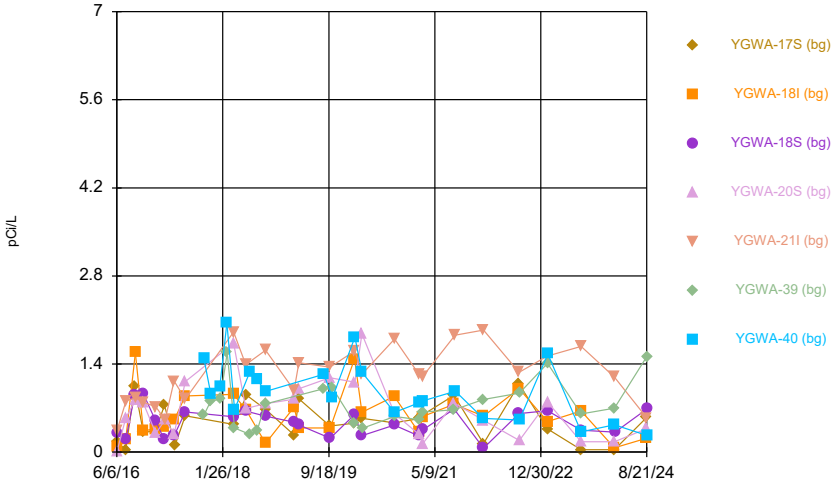
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 2:59 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



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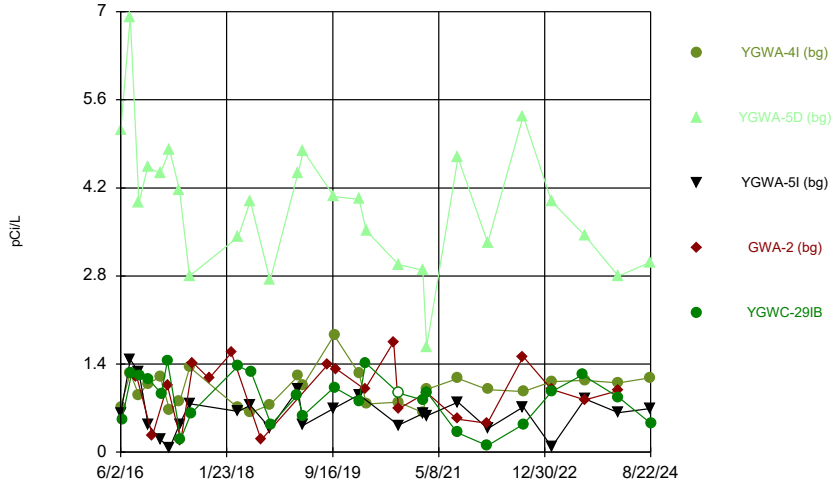

Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 2:59 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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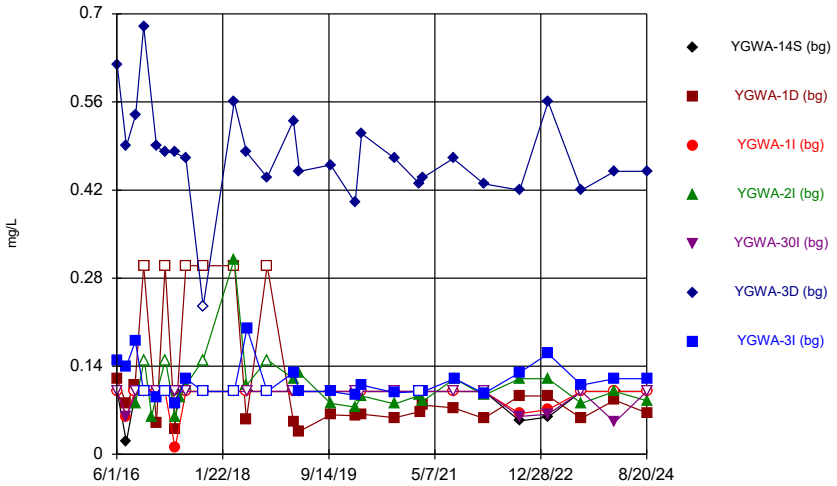
Hollow symbols indicate censored values.

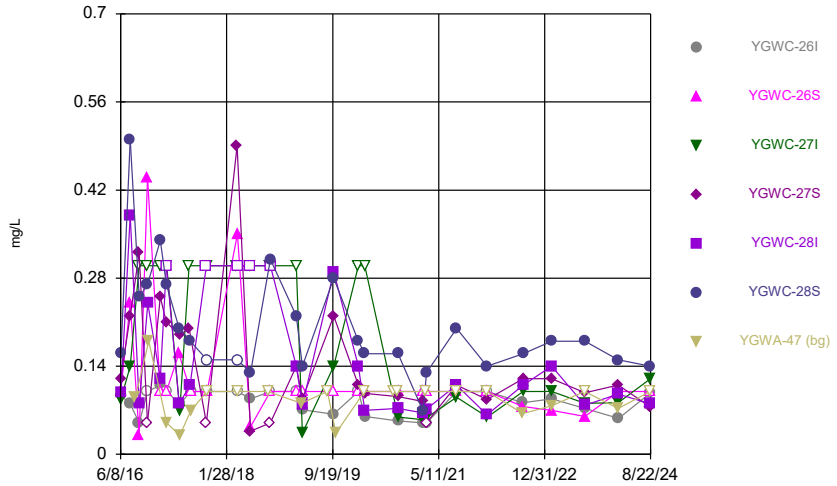
Time Series



Constituent: Fluoride Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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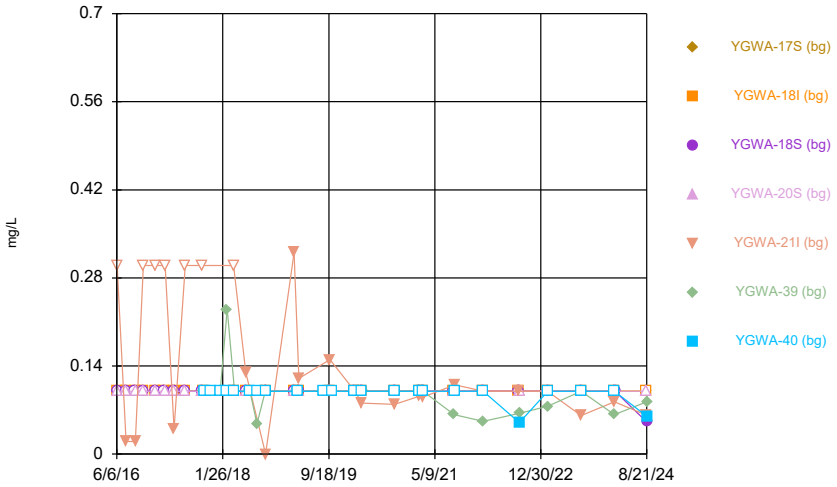

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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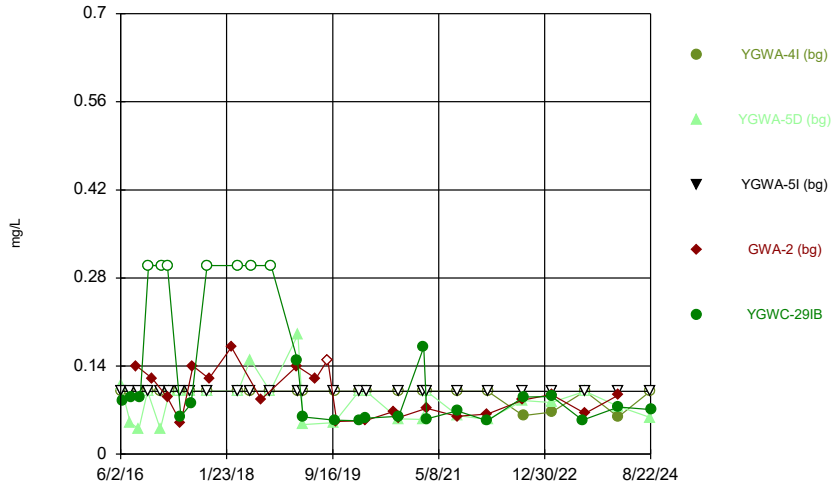
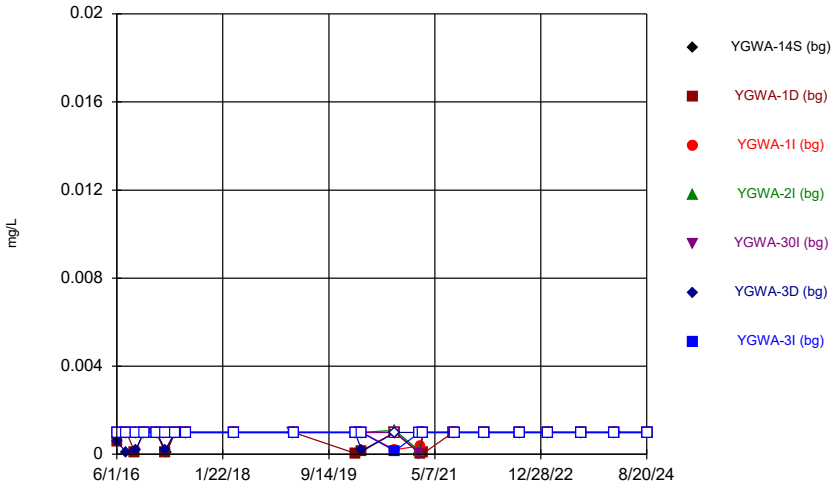


Constituent: Fluoride Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

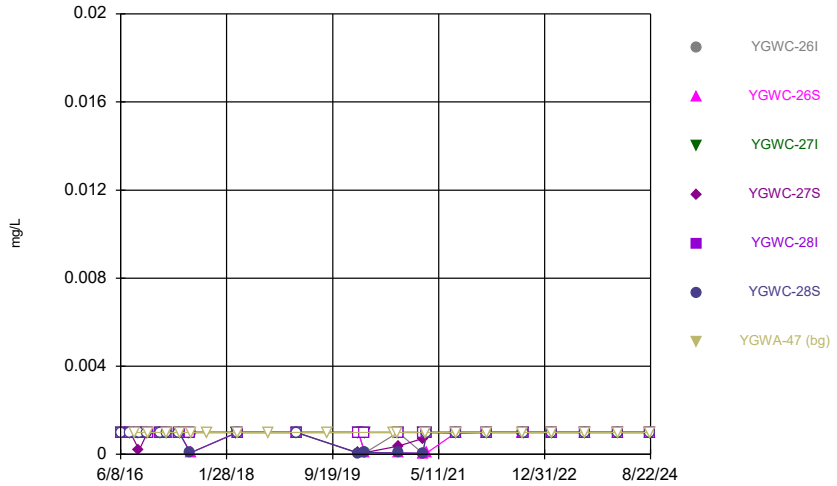
Time Series



Constituent: Lead Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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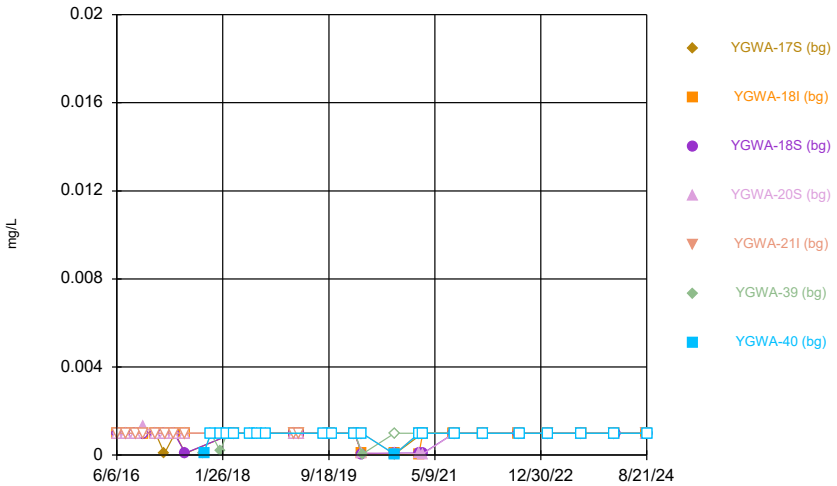
Time Series



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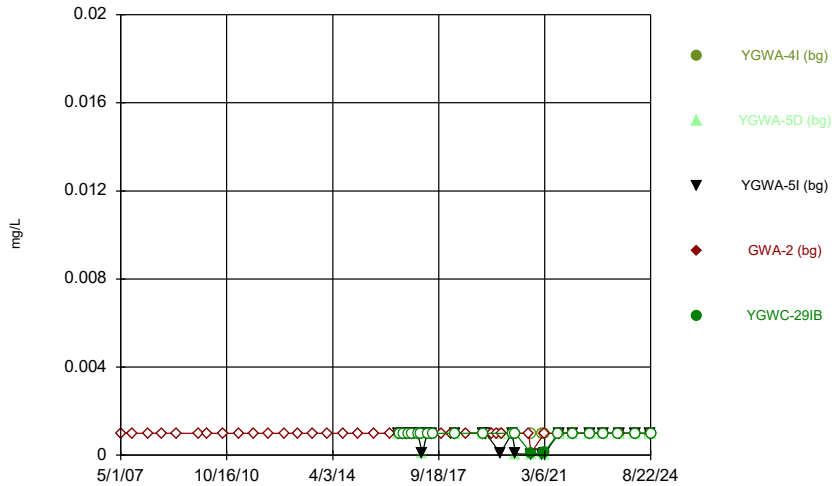

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Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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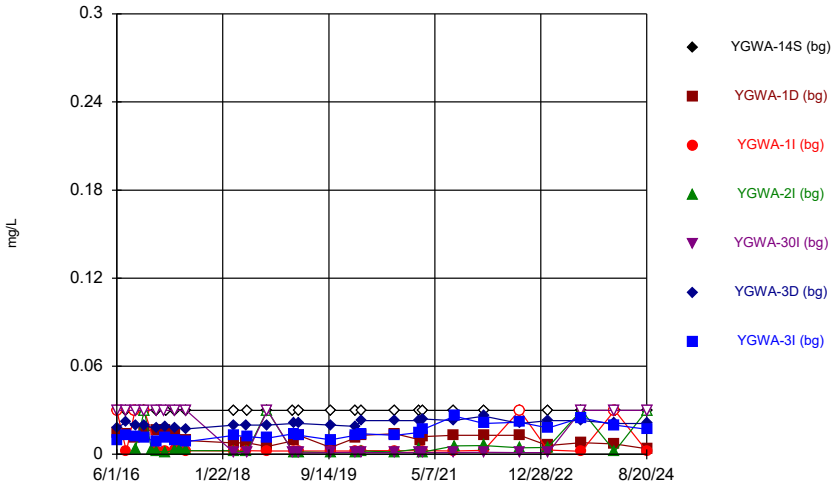
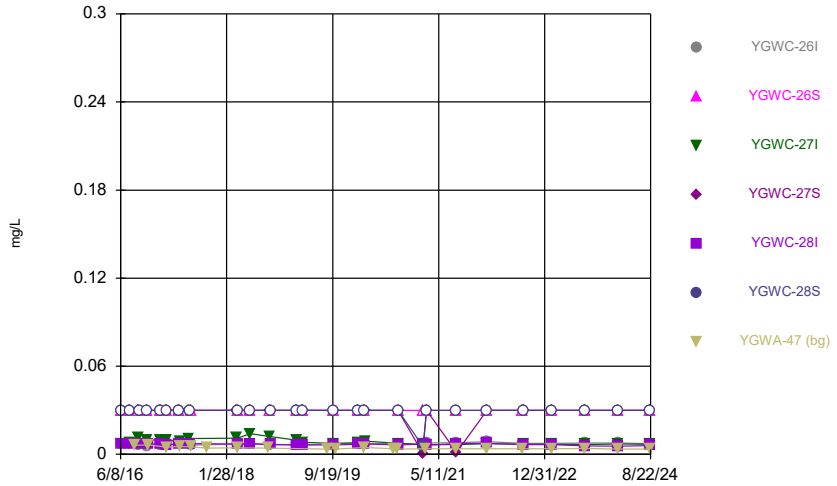


Constituent: Lithium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

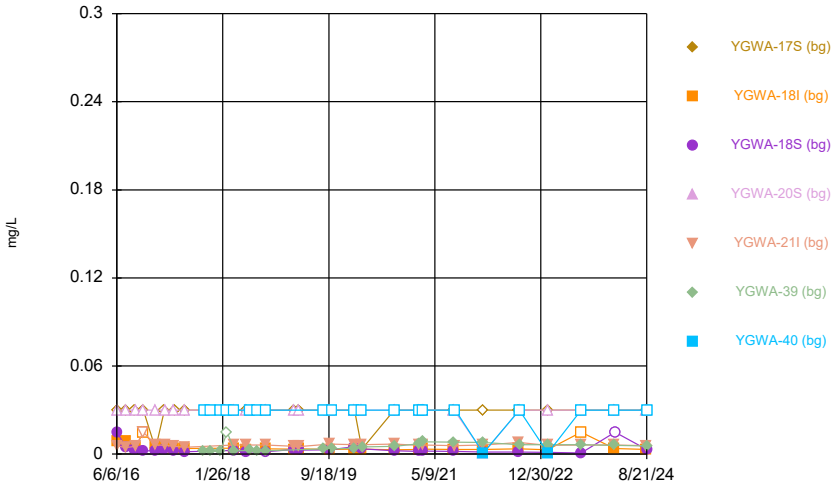
Time Series



Constituent: Lithium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

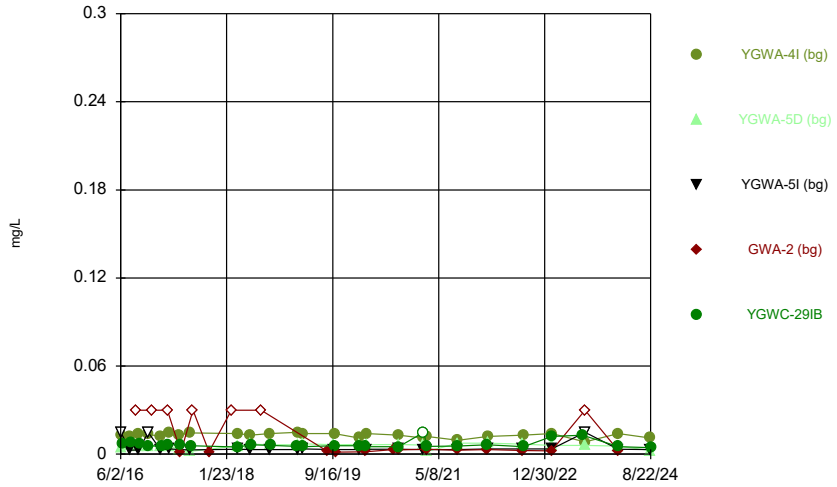
Time Series



Constituent: Lithium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

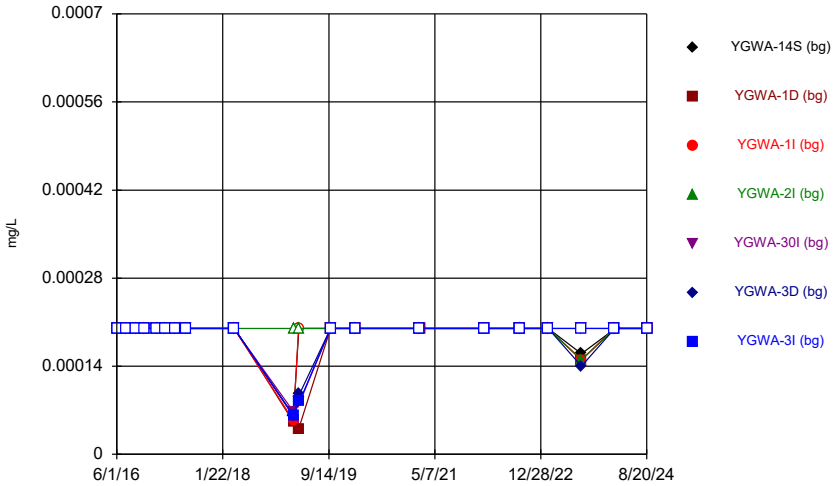
Time Series



Constituent: Lithium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

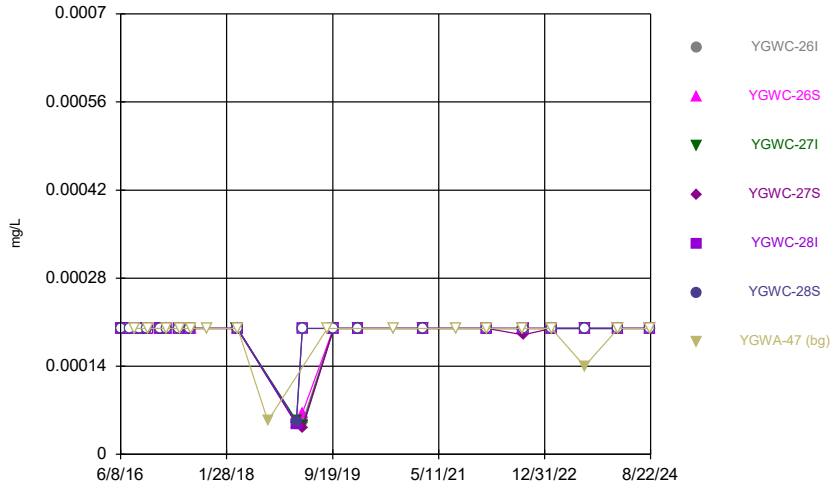
Time Series



Constituent: Mercury Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

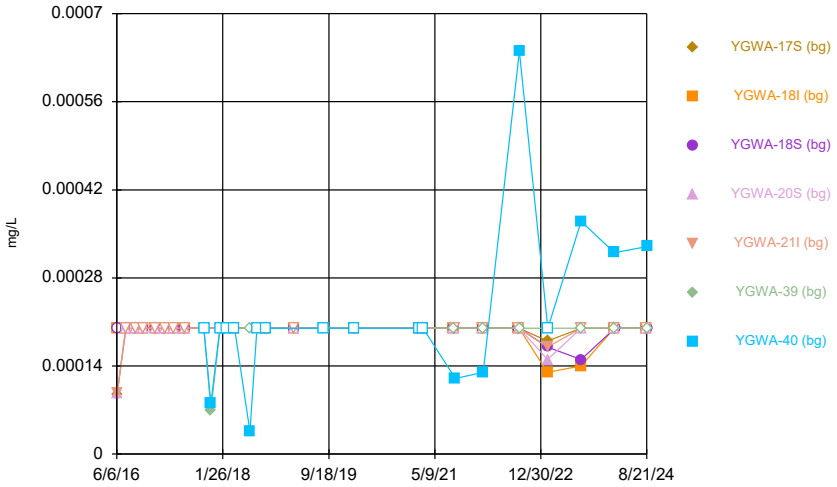
Time Series



Constituent: Mercury Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

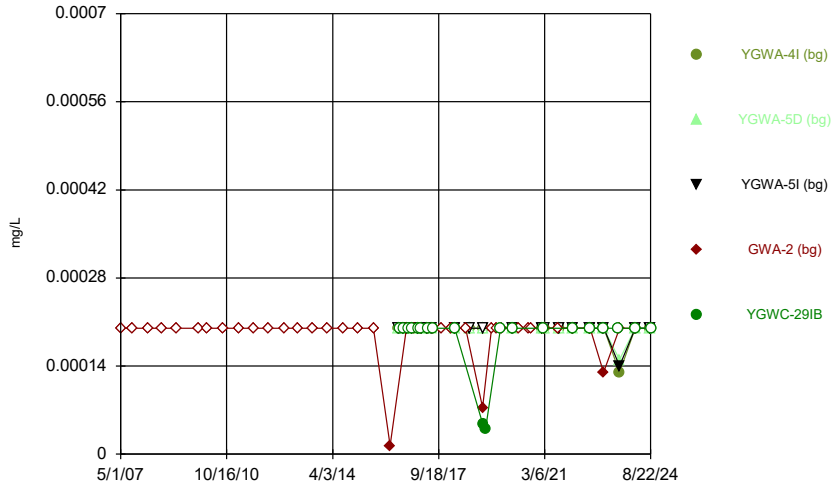
Time Series



Constituent: Mercury Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

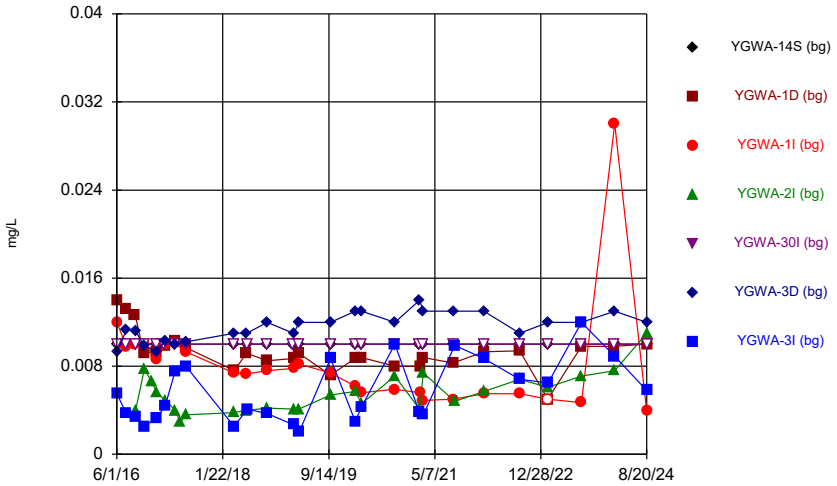
Time Series



Constituent: Mercury Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

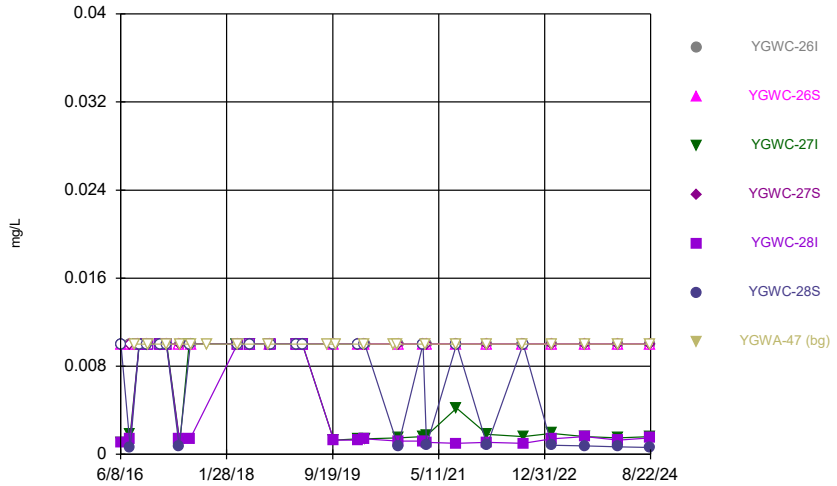
Time Series



Constituent: Molybdenum Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

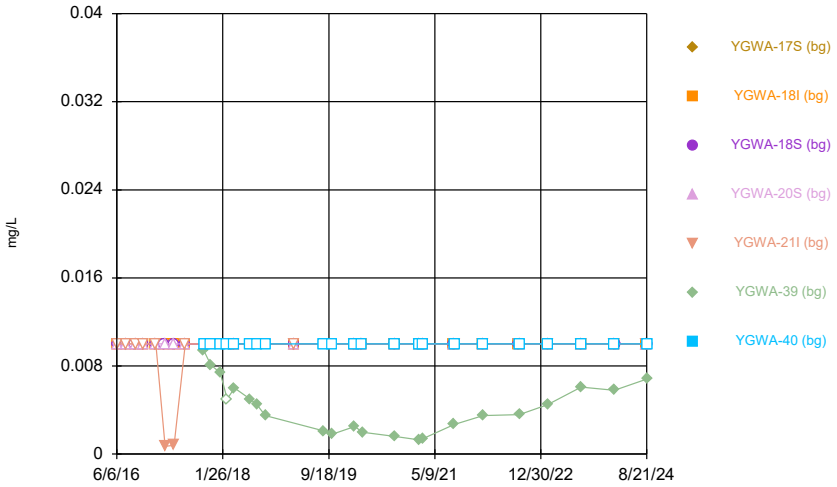
Time Series



Constituent: Molybdenum Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

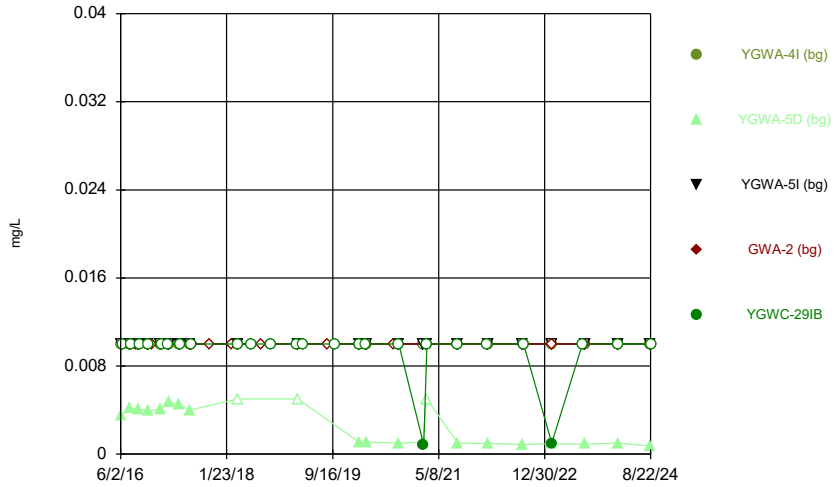
Time Series



Constituent: Molybdenum Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

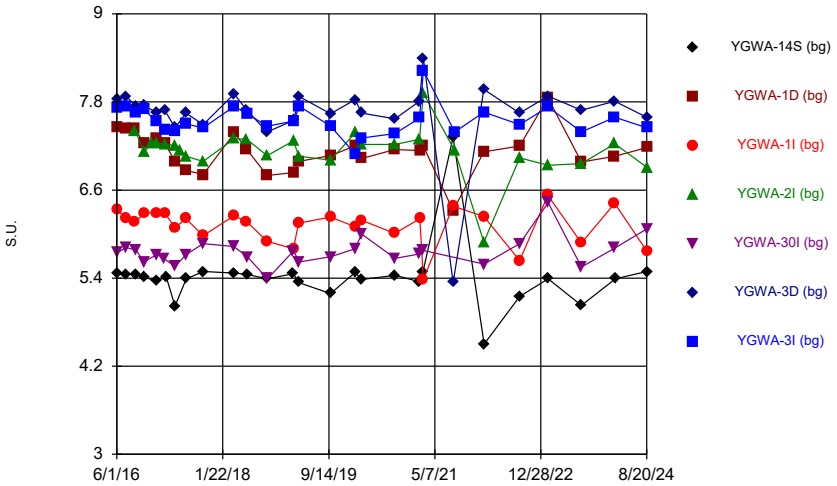
Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Molybdenum Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

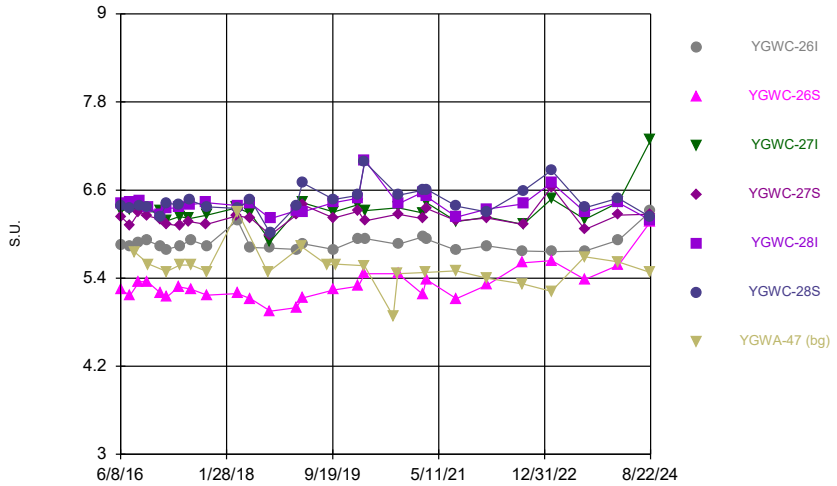


Constituent: pH Analysis Run 11/7/2024 2:59 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

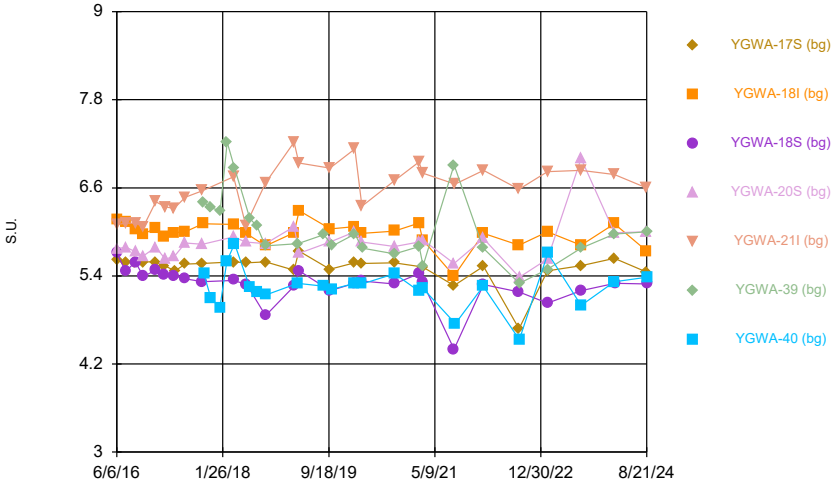


Constituent: pH Analysis Run 11/7/2024 2:59 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

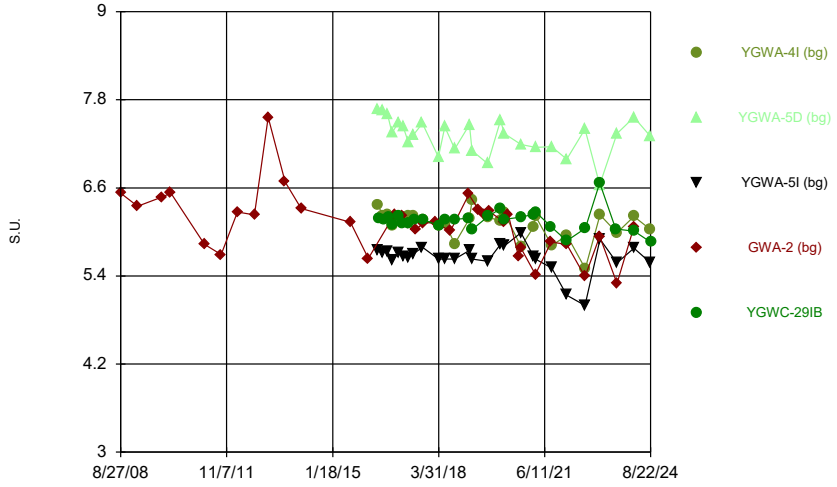


Constituent: pH Analysis Run 11/7/2024 2:59 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series

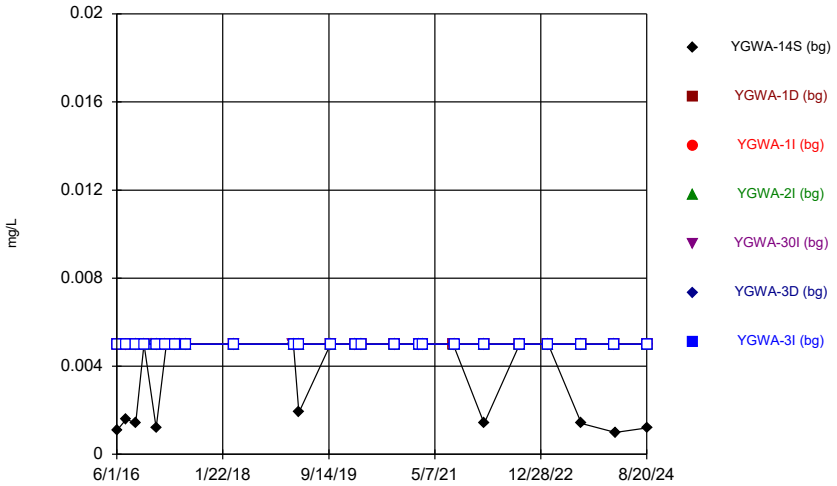


Constituent: pH Analysis Run 11/7/2024 2:59 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

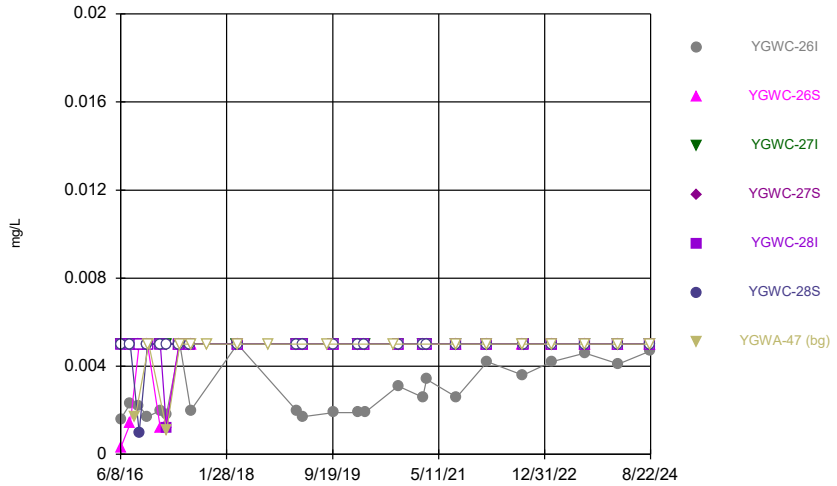
Time Series



Constituent: Selenium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

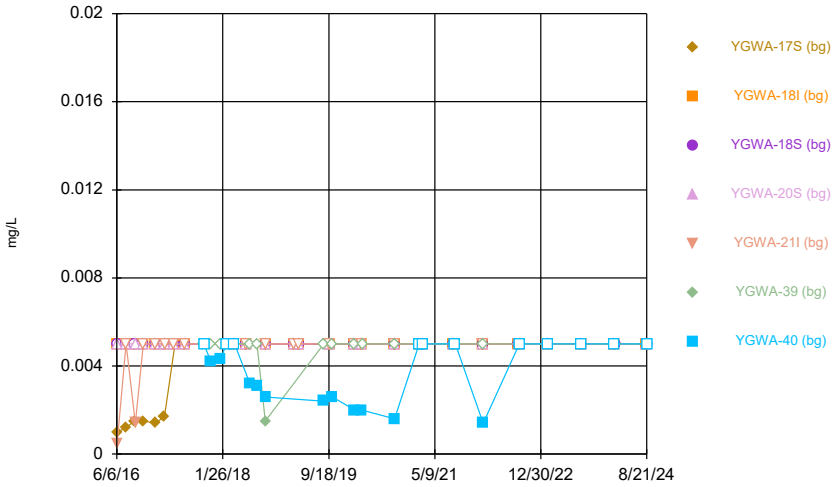
Time Series



Constituent: Selenium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

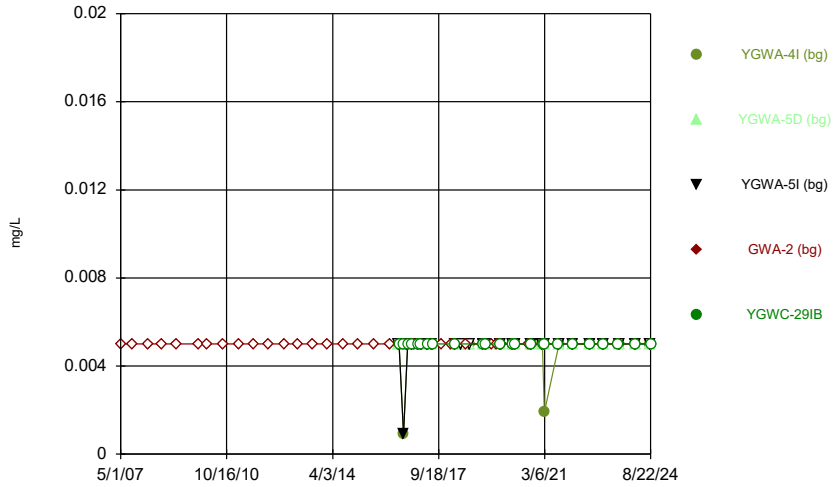
Time Series



Constituent: Selenium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

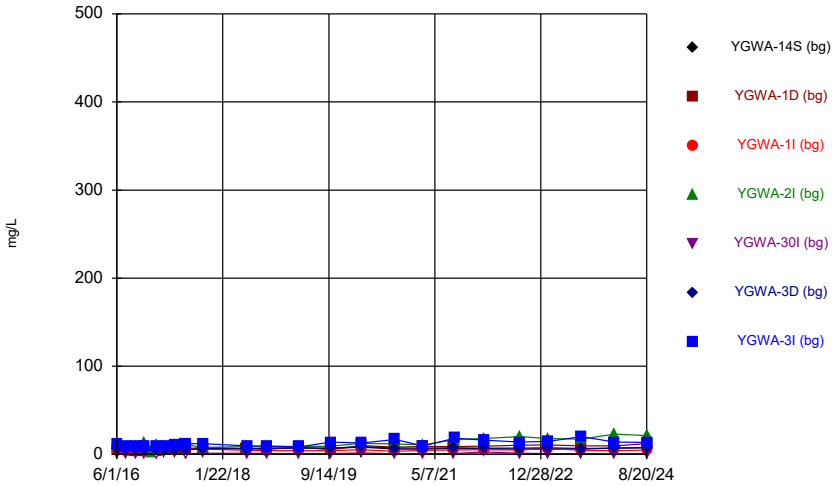
Time Series



Constituent: Selenium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

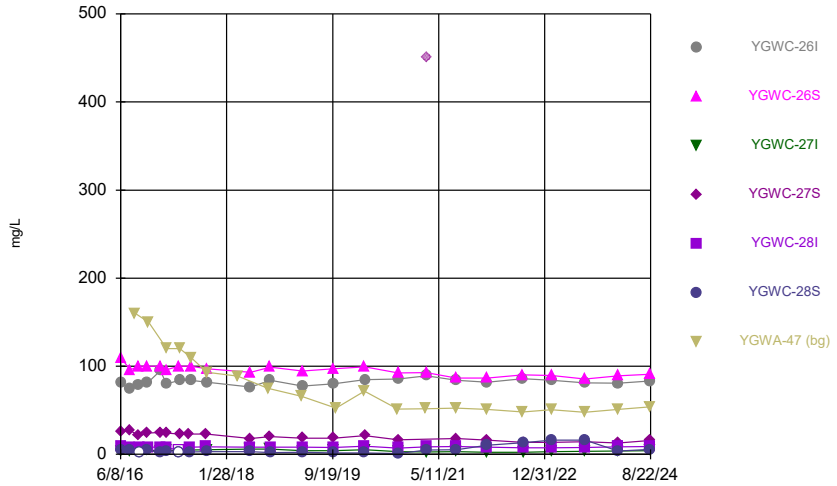
Time Series



Constituent: Sulfate Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

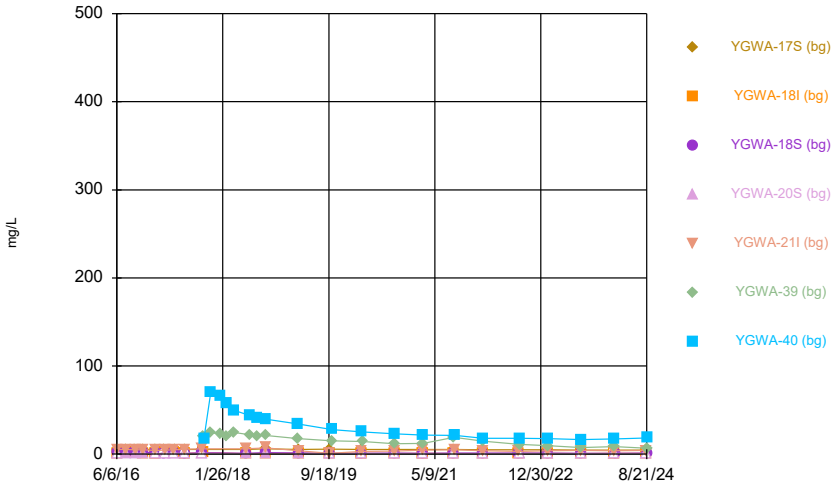
Time Series



Constituent: Sulfate Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

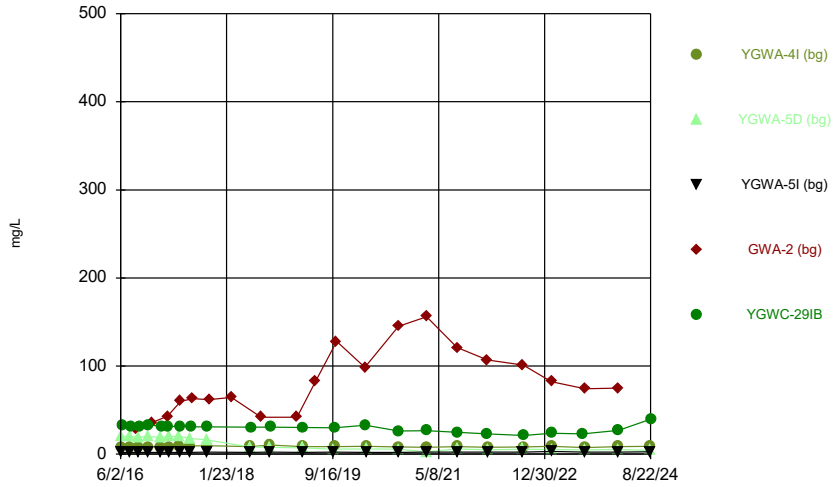
Time Series



Constituent: Sulfate Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

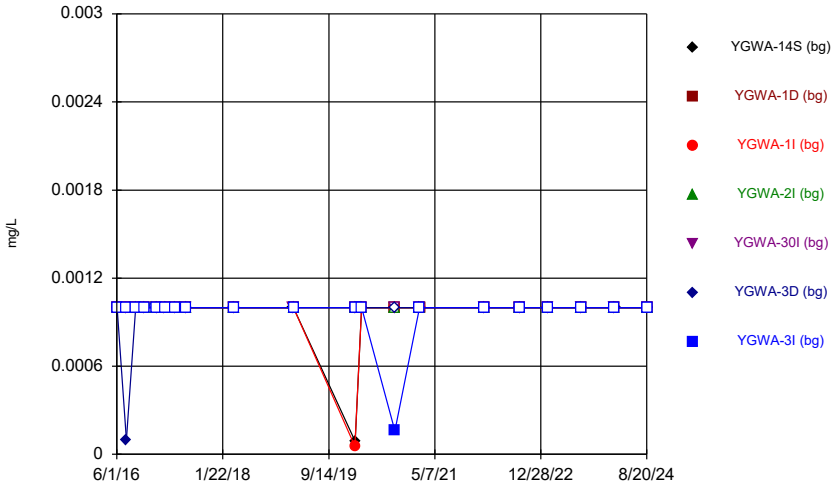
Time Series



Constituent: Sulfate Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

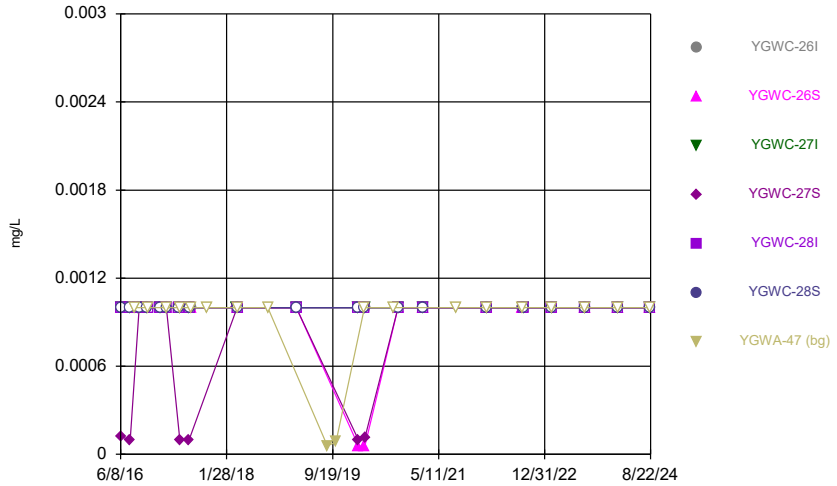
Time Series



Constituent: Thallium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

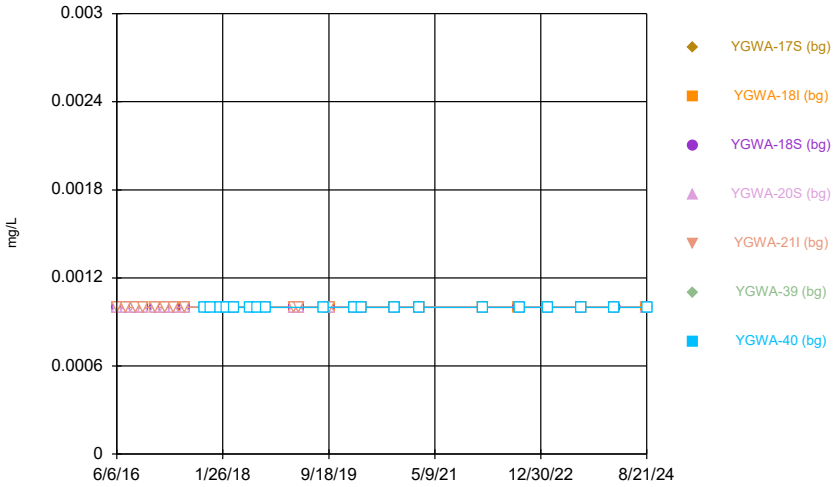
Time Series



Constituent: Thallium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

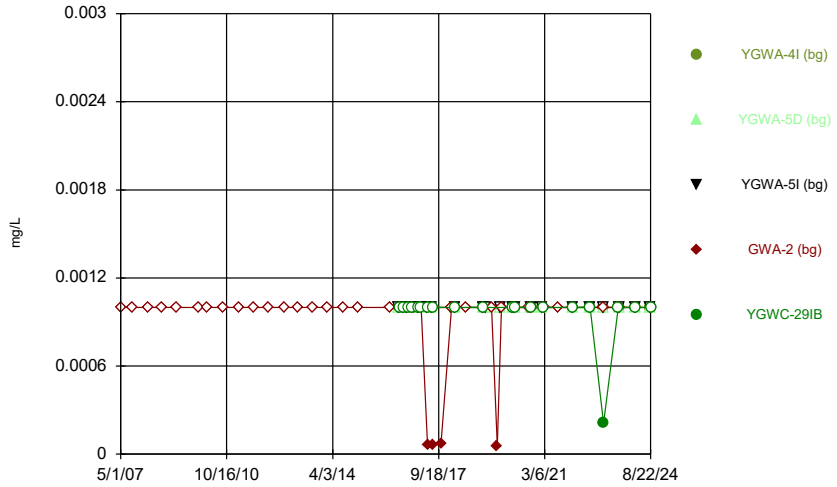
Time Series



Constituent: Thallium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

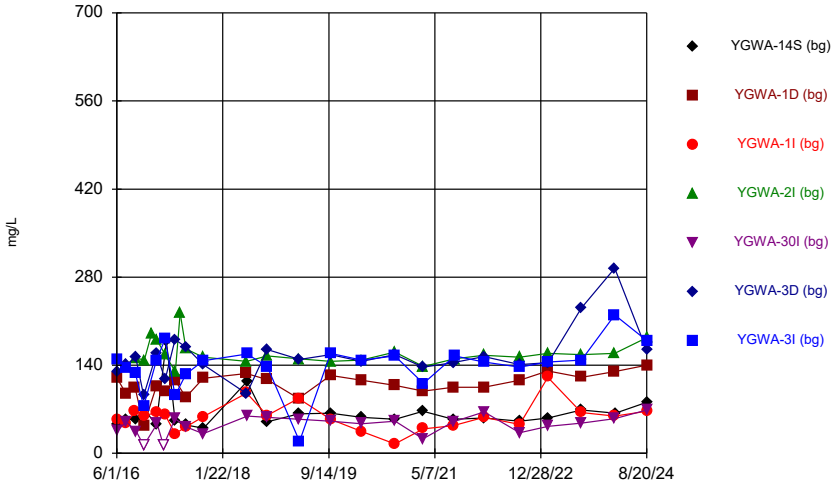
Time Series



Constituent: Thallium Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

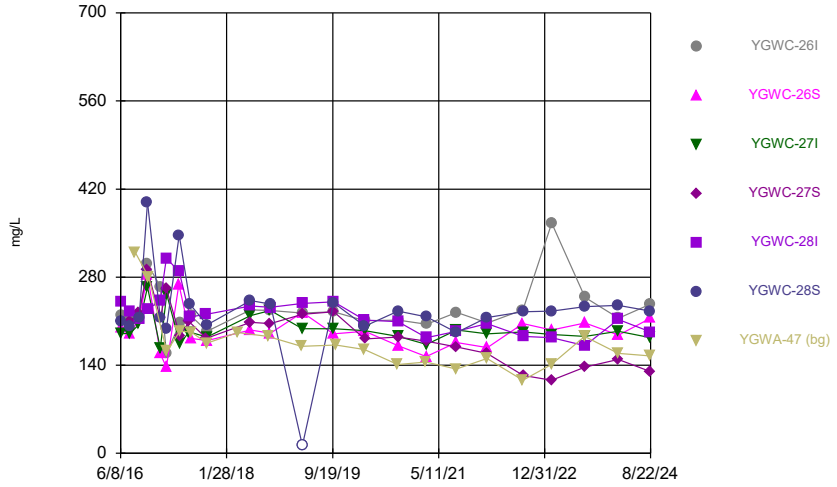
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

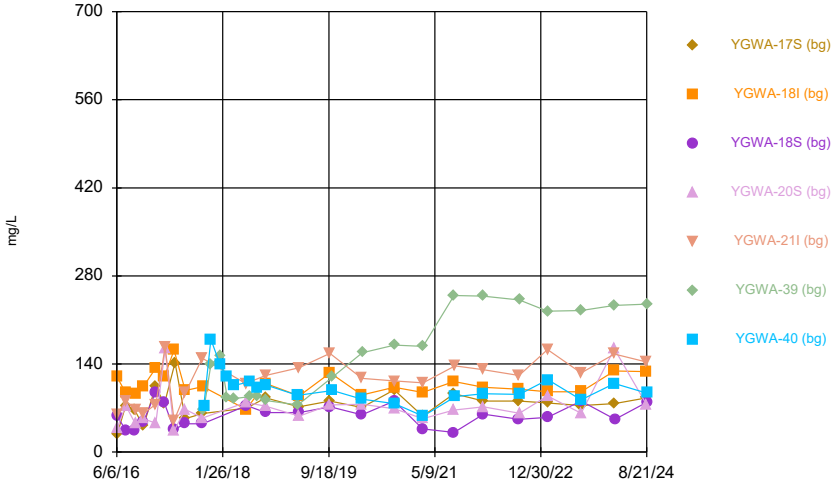
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

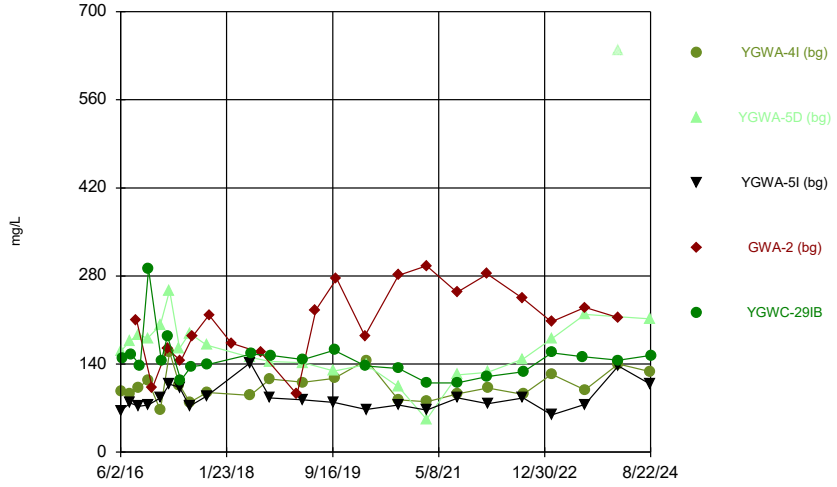
Time Series



Constituent: Total Dissolved Solids Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/7/2024 2:59 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0005 (J)	0.001 (J)				0.002 (J)	
9/13/2016		0.001 (J)	<0.003				
9/14/2016				<0.003			<0.003
9/15/2016	<0.003					0.0027 (J)	
9/19/2016					<0.003		
11/1/2016		0.0015 (J)			<0.003	<0.003	<0.003
11/2/2016	<0.003						
11/4/2016			<0.003	<0.003			
12/15/2016				0.0012 (J)			
1/10/2017	<0.003						
1/11/2017		<0.003				<0.003	<0.003
1/16/2017			<0.003	<0.003	<0.003		
2/21/2017					<0.003		
3/1/2017							<0.003
3/2/2017		0.0004 (J)	<0.003			0.0008 (J)	
3/3/2017				<0.003			
3/8/2017	<0.003						
4/26/2017	<0.003				<0.003	<0.003	<0.003
4/27/2017		0.0004 (J)	0.0017 (J)				
4/28/2017				0.0015 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003		<0.003	<0.003
6/30/2017	<0.003				<0.003		
3/27/2018	<0.003		<0.003		<0.003		
3/28/2018				<0.003		<0.003	<0.003
3/29/2018		<0.003					
2/26/2019	<0.003				<0.003		
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
2/10/2020		0.00088 (J)	<0.003				
2/11/2020				0.00036 (J)			<0.003
2/12/2020	<0.003				<0.003	<0.003	
3/18/2020	<0.003		0.0004 (J)				
3/19/2020		<0.003		0.0003 (J)	<0.003	0.00064 (J)	<0.003
9/23/2020		<0.003	<0.003	<0.003		<0.003	<0.003
9/24/2020					<0.003		
9/25/2020	<0.003						
2/10/2021	<0.003			0.0013 (J)		<0.003	<0.003
2/11/2021					<0.003		
2/12/2021		<0.003	<0.003				
3/1/2021					<0.003		
3/2/2021	<0.003						
3/3/2021		<0.003	<0.003	<0.003		<0.003	<0.003
8/19/2021	<0.003	<0.003	<0.003		<0.003	<0.003	
8/27/2021				<0.003			<0.003
2/9/2022		<0.003	<0.003	<0.003		0.0018 (J)	<0.003
2/10/2022	<0.003						
2/11/2022					<0.003		
8/30/2022		<0.003		<0.003			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/31/2022	<0.003		<0.003		<0.003	<0.003	<0.003
2/7/2023		<0.003	<0.003	<0.003			
2/8/2023	<0.003				<0.003	<0.003	<0.003
8/15/2023	<0.003	<0.003	<0.003	<0.003		<0.003	
8/16/2023					<0.003		<0.003
2/20/2024		0.0023 (J)	<0.003	0.00067 (J)	<0.003	<0.003	<0.003
2/23/2024	<0.003						
8/20/2024	<0.003	0.00088 (J)	<0.003	<0.003	<0.003	<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	
8/1/2016	<0.003	<0.003	<0.003	<0.003			
8/2/2016					<0.003	<0.003	
8/30/2016							0.0028 (J)
9/20/2016	<0.003	<0.003	<0.003	<0.003			
9/21/2016					<0.003	<0.003	
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003	
11/8/2016					<0.003		
11/14/2016							<0.003
1/18/2017	<0.003	<0.003	<0.003		<0.003	<0.003	
1/19/2017				<0.003			
2/21/2017	<0.003	<0.003				<0.003	
2/22/2017				<0.003	<0.003		
2/23/2017			<0.003				
2/24/2017							<0.003
5/3/2017		<0.003					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		<0.003	<0.003			0.0004 (J)
6/30/2017			<0.003	<0.003			
7/5/2017					<0.003		
7/7/2017						<0.003	
7/10/2017	<0.003	<0.003					
7/11/2017							0.0006 (J)
10/10/2017							<0.003
3/29/2018			<0.003	<0.003			
3/30/2018	<0.003	<0.003			<0.003	<0.003	
4/2/2018							<0.003
9/19/2018							<0.003
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
8/20/2019							<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003	
3/19/2020		0.0017 (J)			<0.003	<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)			
8/27/2020							0.00048 (J)
9/22/2020							<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	
2/10/2021	<0.003	<0.003	<0.003	<0.003			
2/11/2021					<0.003		
2/12/2021						<0.003	
3/1/2021							0.00048 (J)
3/2/2021		<0.003					
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003	
8/19/2021		<0.003					<0.003
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003	
2/8/2022				<0.003	<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003				
8/31/2022	0.001 (J)	<0.003					<0.003
9/1/2022			<0.003	<0.003	<0.003	<0.003	
2/8/2023							<0.003
2/9/2023	<0.003	<0.003	0.0014 (J)	<0.003	<0.003	<0.003	
8/15/2023							<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/16/2023					0.0023 (J)	<0.003	
8/17/2023	<0.003	<0.003	<0.003	<0.003			
2/20/2024							<0.003
2/21/2024			<0.003	<0.003	<0.003	<0.003	
2/22/2024	<0.003	<0.003					
8/20/2024							<0.003
8/21/2024	<0.003	<0.003	<0.003				
8/22/2024				<0.003	<0.003	<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.003	<0.003				
6/7/2016	<0.003			<0.003	<0.003		
7/27/2016	<0.003	0.0005 (J)	<0.003	<0.003			
7/28/2016					<0.003		
9/16/2016	<0.003		<0.003				
9/19/2016		<0.003		<0.003	0.001 (J)		
11/2/2016				<0.003			
11/3/2016	<0.003	<0.003	<0.003		<0.003		
1/11/2017	<0.003	<0.003	<0.003				
1/13/2017				<0.003	<0.003		
3/1/2017		<0.003	<0.003				
3/2/2017	<0.003						
3/6/2017				<0.003	0.0005 (J)		
4/26/2017		<0.003	<0.003	<0.003	<0.003		
5/2/2017	<0.003						
6/28/2017		<0.003	<0.003				
6/29/2017	<0.003			<0.003	<0.003		
10/11/2017						0.0006 (J)	
10/12/2017							<0.003
11/20/2017						<0.003	<0.003
1/10/2018							<0.003
1/11/2018						<0.003	
2/19/2018							<0.003
2/20/2018						<0.003	
3/28/2018	<0.003	<0.003	<0.003				
3/29/2018				<0.003	<0.003		
4/3/2018						<0.003	<0.003
6/28/2018						<0.003	<0.003
8/7/2018						<0.003	<0.003
9/24/2018						<0.003	<0.003
3/5/2019	<0.003		<0.003	<0.003	0.0011 (J)		
3/6/2019		<0.003					
4/2/2019	<0.003				0.0011 (J)		
4/3/2019		<0.003	<0.003	<0.003			
8/21/2019						<0.003	<0.003
9/24/2019					0.0035		
9/25/2019	<0.003			<0.003			
9/26/2019		0.00056 (J)	<0.003				
2/11/2020	<0.003	<0.003	<0.003				
2/12/2020				<0.003	0.0015 (J)	<0.003	<0.003
3/24/2020	<0.003	<0.003	<0.003	<0.003	0.0017 (J)		<0.003
3/25/2020						0.0014 (J)	
9/23/2020	<0.003	<0.003	<0.003				
9/24/2020				<0.003	0.0047	<0.003	<0.003
2/9/2021		<0.003	<0.003	0.00032 (J)	0.0013 (J)		
2/10/2021						<0.003	<0.003
3/3/2021	<0.003	<0.003	0.00067 (J)	<0.003			
3/4/2021					0.0014 (J)	<0.003	<0.003
8/26/2021			<0.003			<0.003	
8/27/2021	<0.003	<0.003		<0.003			
9/1/2021					<0.003		
9/3/2021							<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/8/2022						<0.003	<0.003
2/9/2022	<0.003	<0.003	<0.003	<0.003	<0.003		
8/30/2022	<0.003	<0.003	<0.003		0.0046		
8/31/2022				<0.003		<0.003	<0.003
2/7/2023	0.0013 (J)	<0.003	<0.003	<0.003	<0.003	<0.003	
2/8/2023							<0.003
8/15/2023	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/20/2024	<0.003	<0.003		<0.003	0.0013 (J)	<0.003	<0.003
2/23/2024			<0.003				
8/20/2024	<0.003	<0.003		<0.003	<0.003		
8/21/2024			<0.003			<0.003	<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.003	
9/11/2007				<0.003	
3/20/2008				<0.003	
8/27/2008				<0.003	
3/3/2009				<0.003	
11/18/2009				<0.003	
3/3/2010				<0.003	
9/8/2010				<0.003	
3/10/2011				<0.003	
9/8/2011				<0.003	
3/5/2012				<0.003	
9/10/2012				<0.003	
2/6/2013				<0.003	
8/12/2013				<0.003	
2/5/2014				<0.003	
8/5/2014				<0.003	
2/4/2015				<0.003	
8/3/2015				<0.003	
2/16/2016				<0.003	
6/2/2016	<0.003	<0.003	<0.003		
6/9/2016					<0.003
7/26/2016	0.0003 (J)	<0.003	<0.003		
8/2/2016					<0.003
8/31/2016				<0.003	
9/14/2016	<0.003	<0.003	<0.003		
9/21/2016					<0.003
11/2/2016	<0.003	<0.003			
11/4/2016			<0.003		
11/7/2016					<0.003
11/28/2016				0.0014 (J)	
1/12/2017		<0.003	<0.003		
1/13/2017	<0.003				
1/19/2017					<0.003
2/22/2017				<0.003	<0.003
3/6/2017	<0.003				
3/7/2017		<0.003	<0.003		
5/1/2017	<0.003	<0.003			
5/2/2017			<0.003		
5/8/2017				<0.003	<0.003
6/27/2017		<0.003	<0.003		
6/29/2017	<0.003				
7/5/2017					<0.003
7/17/2017				<0.003	
10/16/2017				<0.003	
2/19/2018				<0.003	
3/29/2018	<0.003	<0.003	<0.003		<0.003
8/6/2018				<0.003	
2/25/2019				<0.003	
2/27/2019					<0.003
3/4/2019	<0.003	<0.003	<0.003		
4/3/2019	<0.003	<0.003	<0.003		
6/12/2019				<0.003	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Antimony (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
8/19/2019				<0.003	
9/24/2019		<0.003	<0.003		
9/25/2019	<0.003				
10/8/2019				<0.003	
2/12/2020	<0.003	<0.003	<0.003		
2/13/2020					<0.003
3/17/2020				<0.003	
3/20/2020					<0.003
3/24/2020		<0.003	<0.003		
3/25/2020	<0.003				
8/26/2020				0.00042 (J)	
9/22/2020	<0.003	<0.003	<0.003	0.00044 (J)	
9/24/2020					0.0013 (J)
2/8/2021		<0.003	<0.003		
2/9/2021	<0.003				
2/12/2021					<0.003
3/2/2021		<0.003	<0.003	<0.003	
3/3/2021	<0.003				<0.003
8/20/2021				<0.003	<0.003
8/26/2021	<0.003	<0.003	<0.003		
2/8/2022				<0.003	<0.003
2/10/2022		<0.003	<0.003		
2/11/2022	<0.003				
8/30/2022		<0.003	<0.003	<0.003	
8/31/2022	<0.003				
9/1/2022					<0.003
2/7/2023		<0.003		<0.003	
2/8/2023					<0.003
2/9/2023	<0.003		<0.003		
8/2/2023					<0.003
8/15/2023	<0.003	<0.003	<0.003	<0.003	
2/20/2024	0.00061 (J)	<0.003	<0.003	0.0026 (J)	
2/22/2024					<0.003
8/20/2024	<0.003	<0.003	<0.003		
8/22/2024					<0.003

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0021	<0.005				<0.005
6/2/2016	<0.005				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	0.0016 (J)				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	0.0017 (J)			
12/15/2016				0.0023 (J)			
1/10/2017	<0.005						
1/11/2017		0.0017 (J)				<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0014 (J)	<0.005			<0.005	
3/3/2017				0.0016 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		0.0018 (J)	<0.005				
4/28/2017				0.002 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)		0.0007 (J)	0.0011 (J)
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				0.0013 (J)		<0.005	<0.005
3/29/2018		0.0017 (J)					
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					<0.005		
10/1/2018	<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005	<0.005
10/2/2018					<0.005		
2/26/2019	<0.005				<0.005		
2/27/2019		0.0015 (J)	<0.005	0.001 (J)		<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005				
3/29/2019	<0.005			0.00063 (J)			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.0014 (J)	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		0.0026 (J)	0.0005 (J)				
2/11/2020				0.0044 (J)			0.0041 (J)
2/12/2020	<0.005				0.0032 (J)	0.0038 (J)	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		0.00094 (J)	0.00078 (J)
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	0.00098 (J)		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.0031 (J)	0.0033 (J)	0.0037 (J)		0.002 (J)	0.0018 (J)
2/10/2022	0.0016 (J)						
2/11/2022					0.0014 (J)		
8/30/2022		<0.005		0.0027 (J)			
8/31/2022	<0.005		<0.005		<0.005	0.0028 (J)	<0.005
2/7/2023		<0.005	<0.005	<0.005			
2/8/2023	<0.005				<0.005	0.003 (J)	0.0024 (J)
8/15/2023	<0.005	<0.005	<0.005	<0.005		<0.005	
8/16/2023					<0.005		<0.005
2/20/2024		<0.005	<0.005	0.0019 (J)	<0.005	0.0027 (J)	0.0013 (J)
2/23/2024	<0.005						
8/20/2024	<0.005	0.00099 (J)	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	
8/30/2016							<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	
11/8/2016					<0.005		
11/14/2016							<0.005
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		
2/23/2017			<0.005				
2/24/2017							<0.005
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
7/11/2017							<0.005
10/10/2017							0.0007 (J)
3/29/2018			0.0006 (J)	<0.005			
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
4/2/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
9/19/2018							0.00072 (J)
10/2/2018	<0.005	<0.005	<0.005	<0.005			
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	
4/1/2019			<0.005	<0.005	<0.005		
4/2/2019	<0.005	<0.005				<0.005	
8/20/2019							<0.005
9/25/2019	<0.005	<0.005					
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
10/8/2019							<0.005
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	
3/17/2020							<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			
8/27/2020							<0.005
9/22/2020							<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/1/2021							<0.005
3/2/2021		<0.005					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	
8/19/2021		<0.005					<0.005
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0027 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					<0.005
9/1/2022			<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005
2/9/2023	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	<0.005	
8/15/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			
2/20/2024							<0.005
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					
8/20/2024							<0.005
8/21/2024	<0.005	<0.005	<0.005				
8/22/2024				<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.005	<0.005				
6/7/2016	<0.005			<0.005	<0.005		
7/27/2016	<0.005	<0.005	<0.005	<0.005			
7/28/2016					<0.005		
9/16/2016	<0.005		<0.005				
9/19/2016		<0.005		<0.005	<0.005		
11/2/2016				<0.005			
11/3/2016	<0.005	<0.005	<0.005		<0.005		
1/11/2017	<0.005	<0.005	<0.005				
1/13/2017				<0.005	<0.005		
3/1/2017		<0.005	<0.005				
3/2/2017	<0.005						
3/6/2017				<0.005	0.0017 (J)		
4/26/2017		<0.005	<0.005	<0.005	<0.005		
5/2/2017	<0.005						
6/28/2017		<0.005	<0.005				
6/29/2017	<0.005			<0.005	<0.005		
10/11/2017						0.0009 (J)	
10/12/2017							<0.005
11/20/2017						<0.005	<0.005
1/10/2018							<0.005
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	0.00061 (J)				
3/29/2018				<0.005	0.0015 (J)		
4/3/2018						<0.005	<0.005
6/5/2018					0.0013 (J)		
6/6/2018				<0.005			
6/7/2018		0.00066 (J)					
6/11/2018	<0.005		<0.005				
6/28/2018						<0.005	<0.005
8/7/2018						<0.005	<0.005
9/24/2018						<0.005	<0.005
9/25/2018	<0.005	<0.005	<0.005	<0.005	0.0022 (J)		
3/5/2019	<0.005		<0.005	<0.005	0.0013 (J)		
3/6/2019		<0.005					
4/2/2019	<0.005				0.00096 (J)		
4/3/2019		<0.005	<0.005	<0.005			
8/21/2019						0.00058 (J)	<0.005
9/24/2019					0.0026 (J)		
9/25/2019	<0.005			<0.005			
9/26/2019		<0.005	<0.005				
10/9/2019						0.00063 (J)	<0.005
2/11/2020	0.0022 (J)	0.0014 (J)	0.0026 (J)				
2/12/2020				<0.005	0.0025 (J)	0.00058 (J)	0.0034 (J)
3/24/2020	<0.005	<0.005	<0.005	<0.005	0.0013 (J)		<0.005
3/25/2020						0.0012 (J)	
9/23/2020	<0.005	<0.005	<0.005				
9/24/2020				<0.005	0.0014 (J)	<0.005	<0.005
2/9/2021		<0.005	<0.005	<0.005	0.001 (J)		
2/10/2021						<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.005	<0.005	<0.005	<0.005			
3/4/2021					0.00078 (J)	<0.005	<0.005
8/26/2021			<0.005			<0.005	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					<0.005		
9/3/2021							<0.005
2/8/2022						0.0034 (J)	0.003 (J)
2/9/2022	0.0024 (J)	0.0022 (J)	0.0024 (J)	0.0021 (J)	0.0036 (J)		
8/30/2022	<0.005	<0.005	<0.005		0.0022 (J)		
8/31/2022				<0.005		0.0029 (J)	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	0.0028 (J)	0.0029 (J)	
2/8/2023							<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005		<0.005	<0.005	0.002 (J)	0.0012 (J)
2/23/2024			<0.005				
8/20/2024	<0.005	<0.005		<0.005	<0.005		
8/21/2024			<0.005			0.0027 (J)	0.0014 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.005	
9/11/2007				<0.005	
3/20/2008				<0.005	
8/27/2008				<0.005	
3/3/2009				<0.005	
11/18/2009				<0.005	
3/3/2010				<0.005	
9/8/2010				<0.005	
3/10/2011				<0.005	
9/8/2011				<0.005	
3/5/2012				<0.005	
9/10/2012				<0.005	
2/6/2013				<0.005	
8/12/2013				<0.005	
2/5/2014				<0.005	
8/5/2014				<0.005	
2/4/2015				<0.005	
8/3/2015				<0.005	
2/16/2016				<0.005	
6/2/2016	<0.005	0.00071 (J)	<0.005		
6/9/2016					<0.005
7/26/2016	<0.005	0.001 (J)	<0.005		
8/2/2016					<0.005
8/31/2016				<0.005	
9/14/2016	<0.005	<0.005	<0.005		
9/21/2016					<0.005
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				<0.005	
1/12/2017		<0.005	<0.005		
1/13/2017	<0.005				
1/19/2017					<0.005
2/22/2017				<0.005	<0.005
3/6/2017	<0.005				
3/7/2017		0.0012 (J)	<0.005		
5/1/2017	<0.005	<0.005			
5/2/2017			<0.005		
5/8/2017				<0.005	<0.005
6/27/2017		0.0019 (J)	<0.005		
6/29/2017	<0.005				
7/5/2017					<0.005
7/17/2017				<0.005	
10/16/2017				<0.005	
2/19/2018				<0.005	
3/29/2018	<0.005	0.0006 (J)	<0.005		<0.005
6/6/2018		0.0013 (J)			
6/7/2018	0.00059 (J)		<0.005		
6/11/2018					<0.005
8/6/2018				<0.005	
9/26/2018	<0.005	0.0014 (J)	<0.005		
10/2/2018					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/25/2019				<0.005	
2/27/2019					<0.005
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
4/3/2019	<0.005	<0.005	<0.005		
6/12/2019				0.00038 (J)	
8/19/2019				0.00095 (J)	
9/24/2019		0.00043 (J)	<0.005		
9/25/2019	<0.005				<0.005
10/8/2019				<0.005	
2/12/2020	<0.005	0.0046 (J)	0.002 (J)		
2/13/2020					<0.005
3/17/2020				<0.005	
3/20/2020					<0.005
3/24/2020		0.00065 (J)	<0.005		
3/25/2020	<0.005				
8/26/2020				<0.005	
9/22/2020	<0.005	0.001 (J)	<0.005	<0.005	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					<0.005
3/2/2021		<0.005	<0.005	<0.005	
3/3/2021	<0.005				<0.005
8/20/2021				<0.005	<0.005
8/26/2021	<0.005	0.0016 (J)	<0.005		
2/8/2022				0.0033 (J)	0.0033 (J)
2/10/2022		0.004 (J)	0.0016 (J)		
2/11/2022	0.0014 (J)				
8/30/2022		0.0031 (J)	<0.005	0.0024 (J)	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		0.003 (J)		<0.005	
2/8/2023					<0.005
2/9/2023	<0.005		<0.005		
8/2/2023					<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	
2/20/2024	<0.005	0.003 (J)	<0.005	0.0015 (J)	
2/22/2024					<0.005
8/20/2024	<0.005	0.0012 (J)	<0.005		
8/22/2024					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.008	0.012				0.0038
6/2/2016	0.0081				0.0064	0.01	
7/25/2016			0.0091 (J)		0.0071 (J)		0.0031 (J)
7/26/2016	0.0082 (J)	0.006 (J)				0.0088 (J)	
9/13/2016		0.0084 (J)	0.008 (J)				
9/14/2016				0.0037 (J)			0.0027 (J)
9/15/2016	0.0087 (J)					0.009 (J)	
9/19/2016					0.0069 (J)		
11/1/2016		0.0062 (J)			0.007 (J)	0.0079 (J)	0.0027 (J)
11/2/2016	0.0082 (J)						
11/4/2016			0.0067 (J)	0.0059 (J)			
12/15/2016				0.0056 (J)			
1/10/2017	0.0086 (J)						
1/11/2017		0.0069 (J)				0.0075 (J)	0.0036 (J)
1/16/2017			0.0096 (J)	0.0049 (J)	0.0071 (J)		
2/21/2017					0.0077 (J)		
3/1/2017							0.0036 (J)
3/2/2017		0.0071 (J)	0.0112			0.009 (J)	
3/3/2017				0.0046 (J)			
3/8/2017	0.0088 (J)						
4/26/2017	0.0085 (J)				0.0074 (J)	0.0078 (J)	0.0038 (J)
4/27/2017		0.0064 (J)	0.0106				
4/28/2017				0.0039 (J)			
5/26/2017				0.0034 (J)			
6/27/2017		0.0054 (J)	0.0092 (J)				
6/28/2017				0.003 (J)		0.0071 (J)	0.004 (J)
6/30/2017	0.0081 (J)				0.0076 (J)		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
6/5/2018		0.0069 (J)					
6/6/2018			0.0082 (J)				
6/7/2018				0.0037 (J)		0.0068 (J)	
6/8/2018	0.007 (J)						0.0034 (J)
6/11/2018					0.007 (J)		
10/1/2018	0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)	0.0034 (J)
10/2/2018					0.0069 (J)		
2/26/2019	0.0067 (J)				0.007 (J)		
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)	0.0034 (J)
3/28/2019		0.0082 (J)	0.0082 (J)				
3/29/2019	0.0066 (J)			0.0039 (J)			
4/1/2019					0.0072 (J)	0.0064 (J)	0.003 (J)
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
9/25/2019	0.0071 (J)				0.0066 (J)	0.0059 (J)	0.005 (J)
2/10/2020		0.0066 (J)	0.0091 (J)				
2/11/2020				0.0036 (J)			0.0031 (J)
2/12/2020	0.007 (J)				0.0073 (J)	0.0062 (J)	
3/18/2020	0.0076 (J)		0.0084 (J)				
3/19/2020		0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)	0.0029 (J)
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)	0.0039 (J)
9/24/2020					0.0062 (J)		
9/25/2020	0.0073 (J)						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.0078 (J)			0.0032 (J)		0.0059 (J)	0.0029 (J)
2/11/2021					0.0077 (J)		
2/12/2021		0.0057 (J)	0.009 (J)				
3/1/2021					0.007		
3/2/2021	0.0076						
3/3/2021		0.0068	0.0094	0.0041 (J)		0.0064	0.0031 (J)
8/19/2021	0.0077	0.0065	0.0079		0.0071	0.0052	
8/27/2021				0.003 (J)			0.0039 (J)
2/9/2022		0.0067	0.0088	0.0029 (J)		0.0051	0.0031 (J)
2/10/2022	0.0088						
2/11/2022					0.0077		
8/30/2022		0.0066		0.003 (J)			
8/31/2022	0.0075		0.0074		0.0068	0.0048 (J)	0.003 (J)
2/7/2023		0.14	0.21	0.0026 (J)			
2/8/2023	0.0089				0.0066	0.0048 (J)	0.0029 (J)
8/15/2023	0.0079	0.0059	0.0078	0.0031 (J)		0.0046 (J)	
8/16/2023					0.0066		0.0037 (J)
2/20/2024		0.0062	0.004 (J)	0.0044 (J)	0.0064	0.0045 (J)	0.0032 (J)
2/23/2024	0.0096						
8/20/2024	0.0075	0.0061	0.0072	0.0033 (J)	0.0067	0.0044 (J)	0.0027 (J)

Time Series

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	
8/30/2016							0.0413
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	
11/8/2016					0.0886		
11/14/2016							0.0383
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		
2/23/2017			0.0728				
2/24/2017							0.0351
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0251
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
7/11/2017							0.0233
10/10/2017							0.0207
3/29/2018			0.062	0.097			
3/30/2018	0.063	0.026			0.087	0.2	
4/2/2018							0.022
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
9/19/2018							0.023
10/2/2018	0.066	0.026	0.062	0.1			
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	
4/1/2019			0.066	0.099	0.088		
4/2/2019	0.065	0.027				0.2	
8/20/2019							0.024
9/25/2019	0.063	0.026					
9/26/2019			0.065	0.099	0.087	0.18	
10/8/2019							0.025
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	
3/17/2020							0.035
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			
8/27/2020							0.027
9/22/2020							0.026
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	
3/1/2021							0.029
3/2/2021		0.031					

Time Series

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	0.064		0.08	0.075	0.077	0.25	
8/19/2021		0.023					0.029
8/20/2021	0.063		0.083	0.082	0.079	0.24	
2/8/2022				0.068	0.083	0.2	0.03
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					0.029
9/1/2022			0.076	0.049	0.068	0.2	
2/8/2023							0.031
2/9/2023	0.058	0.028	0.076	0.049	0.07	0.22	
8/15/2023							0.032
8/16/2023					0.066	0.21	
8/17/2023	0.061	0.025	0.069	0.051			
2/20/2024							0.031
2/21/2024			0.06	0.047	0.062	0.21	
2/22/2024	0.057	0.025					
8/20/2024							0.031
8/21/2024	0.058	0.026	0.061				
8/22/2024				0.051	0.065	0.2	

Time Series

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		0.028	0.019				
6/7/2016	0.012			0.014	0.0058		
7/27/2016	0.0126	0.0294	0.0167	0.0141			
7/28/2016					0.0068 (J)		
9/16/2016	0.0127		0.0168				
9/19/2016		0.0247		0.0155	0.0071 (J)		
11/2/2016				0.0157			
11/3/2016	0.0128	0.0248	0.0159		0.0092 (J)		
1/11/2017	0.0142	0.0266	0.0162				
1/13/2017				0.0158	0.0105		
3/1/2017		0.0275	0.0195				
3/2/2017	0.0155						
3/6/2017				0.0163	0.0105		
4/26/2017		0.024	0.0182	0.0177	0.011		
5/2/2017	0.0138						
6/28/2017		0.0237	0.018				
6/29/2017	0.0128			0.017	0.0109		
10/11/2017						0.0092 (J)	
10/12/2017							0.0328
11/20/2017						0.0081 (J)	0.0671
1/10/2018							0.0656
1/11/2018						0.0077 (J)	
2/19/2018							0.0598
2/20/2018						<0.01	
3/28/2018	0.014	0.024	0.021				
3/29/2018				0.014	<0.01		
4/3/2018						<0.01	0.045
6/5/2018					0.011		
6/6/2018				0.015			
6/7/2018		0.023					
6/11/2018	0.013		0.019				
6/28/2018						0.0078 (J)	0.047
8/7/2018						0.0078 (J)	0.048
9/24/2018						0.0071 (J)	0.042
9/25/2018	0.014	0.023	0.019	0.015	0.011		
3/5/2019	0.015		0.02	0.016	0.011		
3/6/2019		0.024					
4/2/2019	0.016				0.011		
4/3/2019		0.025	0.017	0.018			
8/21/2019						0.015	0.035
9/24/2019					0.011		
9/25/2019	0.015			0.014			
9/26/2019		0.021	0.017				
10/9/2019						0.013	0.036
2/11/2020	0.015	0.022	0.019				
2/12/2020				0.014	0.011	0.011	0.035
3/24/2020	0.015	0.021	0.017	0.015	0.011		0.033
3/25/2020						0.014	
9/23/2020	0.015	0.021	0.016				
9/24/2020				0.015	0.01	0.016	0.028
2/9/2021		0.023	0.017	0.015	0.011		
2/10/2021						0.027	0.032

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	0.017	0.023	0.017	0.015			
3/4/2021					0.011	0.028	0.032
8/26/2021			0.015			0.038	
8/27/2021	0.016	0.02		0.013			
9/1/2021					0.0099		
9/3/2021							0.035
2/8/2022						0.041	0.039
2/9/2022	0.017	0.021	0.014	0.014	0.011		
8/30/2022	0.017	0.017	0.012		0.0085		
8/31/2022				0.011		0.035	0.035
2/7/2023	0.017	0.019	0.012	0.014	0.01	0.03	
2/8/2023							0.037
8/15/2023	0.016	0.02	0.012	0.012	0.0075	0.031	0.034
2/20/2024	0.017	0.02		0.013	0.0065	0.029	0.033
2/23/2024			0.013				
8/20/2024	0.016	0.019		0.012	0.0083		
8/21/2024			0.015			0.03	0.033

Time Series

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				0.032	
9/11/2007				0.017	
3/20/2008				0.025	
8/27/2008				0.041	
3/3/2009				0.053	
11/18/2009				0.05	
3/3/2010				0.061	
9/8/2010				0.071	
3/10/2011				0.057	
9/8/2011				0.057	
3/5/2012				0.061	
9/10/2012				0.055	
2/6/2013				0.061	
8/12/2013				0.055	
2/5/2014				0.063	
8/5/2014				0.038	
2/4/2015				0.039	
8/3/2015				0.031	
2/16/2016				0.045	
6/2/2016	0.013	0.0084	0.019		
6/9/2016					0.082
7/26/2016	0.0158	0.01	0.0179		
8/2/2016					0.0781
8/31/2016				0.0542	
9/14/2016	0.0143	0.0085 (J)	0.0181		
9/21/2016					0.0782
11/2/2016	0.0148	0.0091 (J)			
11/4/2016			0.0165		
11/7/2016					0.0712
11/28/2016				0.0529	
1/12/2017		0.0089 (J)	0.0199		
1/13/2017	0.0146				
1/19/2017					0.0689
2/22/2017				0.0607	0.0741
3/6/2017	0.0141				
3/7/2017		0.009 (J)	0.0196		
5/1/2017	0.0149	0.0083 (J)			
5/2/2017			0.0202		
5/8/2017				0.065	0.0725
6/27/2017		0.0074 (J)	0.0184		
6/29/2017	0.0154				
7/5/2017					0.0677
7/17/2017				0.06	
10/16/2017				0.0542	
2/19/2018				0.0533	
3/29/2018	0.014	<0.01	0.021		0.055
6/6/2018		0.008 (J)			
6/7/2018	0.014		0.019		
6/11/2018					0.068
8/6/2018				0.044	
9/26/2018	0.02	0.0075 (J)	0.019		
10/2/2018					0.067

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/25/2019				0.045	
2/27/2019					0.067
3/4/2019	0.016	0.0077 (J)	0.019		
4/1/2019					0.063
4/3/2019	0.017	0.0087 (J)	0.023		
6/12/2019				0.063	
8/19/2019				0.065	
9/24/2019		0.0075 (J)	0.019		
9/25/2019	0.015				0.061
10/8/2019				0.058	
2/12/2020	0.012	0.0079 (J)	0.021		
2/13/2020					0.053
3/17/2020				0.047	
3/20/2020					0.057
3/24/2020		0.0076 (J)	0.021		
3/25/2020	0.016				
8/26/2020				0.044	
9/22/2020	0.013	0.0076 (J)	0.019	0.045	
9/24/2020					0.056
2/8/2021		0.0079 (J)	0.02		
2/9/2021	0.013				
2/12/2021					0.21
3/2/2021		0.014	0.019	0.039	
3/3/2021	0.014				0.059
8/20/2021				0.036	0.057
8/26/2021	0.012	0.0092	0.019		
2/8/2022				0.037	0.057
2/10/2022		0.0084	0.02		
2/11/2022	0.013				
8/30/2022		0.0079	0.017	0.031	
8/31/2022	0.013				
9/1/2022					0.057
2/7/2023		0.0075		0.034	
2/8/2023					0.098
2/9/2023	0.014		0.019		
8/2/2023					0.1
8/15/2023	0.011	0.0074	0.018	0.03	
2/20/2024	0.014	0.0078	0.019	0.035	
2/22/2024					0.081
8/20/2024	0.012	0.0066	0.018		
8/22/2024					0.076

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	0.0002 (J)	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	0.0002 (J)					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	0.0002 (J)						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	0.0002 (J)						
1/11/2017		<0.0005				<0.0005	<0.0005
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<0.0005			
3/8/2017	0.0002 (J)						
4/26/2017	0.0002 (J)				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	0.0002 (J)				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	0.00016 (J)				7.2E-05 (J)		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	0.00017 (J)			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	0.00018 (J)				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	0.00019 (J)				<0.0005	<0.0005	
3/18/2020	0.00021 (J)		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	5.9E-05 (J)
9/24/2020					<0.0005		
9/25/2020	0.00018 (J)						
2/10/2021	0.00019 (J)			<0.0005		<0.0005	<0.0005
2/11/2021					4.7E-05 (J)		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	0.00018 (J)						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	0.00022 (J)	<0.0005	<0.0005		<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	0.00025 (J)						
2/11/2022					<0.0005		
8/30/2022		<0.0005		<0.0005			
8/31/2022	0.0002 (J)		<0.0005		<0.0005	<0.0005	<0.0005
2/7/2023		0.0011	0.00054	<0.0005			
2/8/2023	0.00022 (J)				<0.0005	<0.0005	<0.0005
8/15/2023	0.00018 (J)	<0.0005	<0.0005	<0.0005		<0.0005	
8/16/2023					<0.0005		<0.0005
2/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024	0.00024 (J)						
8/20/2024	0.00021 (J)	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					<0.0005	<0.0005	
8/1/2016	<0.0005	0.0002 (J)	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	
8/30/2016							<0.0005
9/20/2016	<0.0005	0.0001 (J)	9E-05 (J)	<0.0005			
9/21/2016					<0.0005	<0.0005	
11/7/2016	<0.0005	0.0001 (J)	0.0001 (J)	<0.0005		<0.0005	
11/8/2016					<0.0005		
11/14/2016							<0.0005
1/18/2017	<0.0005	0.0002 (J)	0.0002 (J)		<0.0005	<0.0005	
1/19/2017				<0.0005			
2/21/2017	<0.0005	0.0002 (J)				<0.0005	
2/22/2017				<0.0005	<0.0005		
2/23/2017			0.0002 (J)				
2/24/2017							<0.0005
5/3/2017		0.0002 (J)					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		0.0002 (J)	<0.0005			7E-05 (J)
6/30/2017			0.0002 (J)	<0.0005			
7/5/2017					<0.0005		
7/7/2017						<0.0005	
7/10/2017	<0.0005	0.0002 (J)					
7/11/2017							<0.0005
10/10/2017							<0.0005
3/29/2018			<0.0005	<0.0005			
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
4/2/2018							<0.0005
9/19/2018							5.7E-05 (J)
2/27/2019	<0.0005	0.00018 (J)	0.00022 (J)	<0.0005	<0.0005	<0.0005	
4/1/2019			0.00022 (J)	<0.0005	<0.0005		
4/2/2019	<0.0005	0.00015 (J)				<0.0005	
8/20/2019							<0.0005
9/25/2019	<0.0005	0.00011 (J)					
9/26/2019			0.0002 (J)	<0.0005	<0.0005	<0.0005	
2/13/2020	<0.0005	0.00015 (J)	0.00021 (J)	<0.0005	<0.0005	<0.0005	
3/19/2020		0.00012 (J)			<0.0005	<0.0005	
3/20/2020	<0.0005		0.00023 (J)	<0.0005			
8/27/2020							4.7E-05 (J)
9/22/2020							<0.0005
9/24/2020	<0.0005	8.5E-05 (J)	0.00019 (J)	<0.0005	<0.0005	<0.0005	
2/10/2021	<0.0005	0.00013 (J)	0.00014 (J)	6.6E-05 (J)			
2/11/2021					<0.0005		
2/12/2021						<0.0005	
3/1/2021							5.5E-05 (J)
3/2/2021		0.00016 (J)					
3/3/2021	<0.0005		0.00013 (J)	<0.0005	<0.0005	<0.0005	
8/19/2021		8.2E-05 (J)					<0.0005
8/20/2021	<0.0005		8.6E-05 (J)	0.00011 (J)	<0.0005	<0.0005	
2/8/2022				<0.0005	<0.0005	<0.0005	5.6E-05 (J)
2/10/2022	<0.0005	9.3E-05 (J)	0.00013 (J)				
8/31/2022	<0.0005	7.4E-05 (J)					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
9/1/2022			0.00012 (J)	<0.0005	<0.0005	<0.0005	
2/8/2023							<0.0005
2/9/2023	<0.0005	6.8E-05 (J)	0.0001 (J)	<0.0005	<0.0005	<0.0005	
8/15/2023							<0.0005
8/16/2023					<0.0005	<0.0005	
8/17/2023	<0.0005	<0.0005	9.5E-05 (J)	<0.0005			
2/20/2024							<0.0005
2/21/2024			0.00011 (J)	<0.0005	<0.0005	<0.0005	
2/22/2024	<0.0005	<0.0005					
8/20/2024							<0.0005
8/21/2024	<0.0005	<0.0005	<0.0005				
8/22/2024				<0.0005	<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.0005	<0.0005				
6/7/2016	<0.0005			<0.0005	<0.0005		
7/27/2016	<0.0005	<0.0005	<0.0005	<0.0005			
7/28/2016					<0.0005		
9/16/2016	<0.0005		<0.0005				
9/19/2016		<0.0005		<0.0005	<0.0005		
11/2/2016				<0.0005			
11/3/2016	<0.0005	<0.0005	<0.0005		<0.0005		
1/11/2017	<0.0005	<0.0005	<0.0005				
1/13/2017				<0.0005	<0.0005		
3/1/2017		<0.0005	<0.0005				
3/2/2017	8E-05 (J)						
3/6/2017				<0.0005	<0.0005		
4/26/2017		<0.0005	<0.0005	<0.0005	<0.0005		
5/2/2017	<0.0005						
6/28/2017		<0.0005	<0.0005				
6/29/2017	<0.0005			<0.0005	<0.0005		
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	
3/28/2018	<0.0005	<0.0005	<0.0005				
3/29/2018				<0.0005	<0.0005		
4/3/2018						<0.0005	<0.0005
6/5/2018					<0.0005		
6/6/2018				8E-05 (J)			
6/7/2018		<0.0005					
6/11/2018	9E-05 (J)		5.7E-05 (J)				
6/28/2018						<0.0005	0.00029 (J)
8/7/2018						<0.0005	0.00024 (J)
9/24/2018						<0.0005	0.00019 (J)
9/25/2018	8.9E-05 (J)	<0.0005	8.2E-05 (J)	6.1E-05 (J)	<0.0005		
3/5/2019	9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.0005		
3/6/2019		<0.0005					
4/2/2019	9E-05 (J)				<0.0005		
4/3/2019		<0.0005	7.5E-05 (J)	6.4E-05 (J)			
8/21/2019						<0.0005	0.0002 (J)
9/24/2019					<0.0005		
9/25/2019	8.1E-05 (J)			<0.0005			
9/26/2019		<0.0005	8.4E-05 (J)				
10/9/2019						<0.0005	0.0002 (J)
2/11/2020	7.8E-05 (J)	<0.0005	7.6E-05 (J)				
2/12/2020				7.8E-05 (J)	<0.0005	<0.0005	0.00018 (J)
3/24/2020	8E-05 (J)	<0.0005	8.9E-05 (J)	7.6E-05 (J)	<0.0005		0.00022 (J)
3/25/2020						<0.0005	
9/23/2020	8.1E-05 (J)	<0.0005	8.8E-05 (J)				
9/24/2020				8.3E-05 (J)	<0.0005	<0.0005	0.0002 (J)
2/9/2021		<0.0005	9.8E-05 (J)	6.8E-05 (J)	<0.0005		
2/10/2021						5.1E-05 (J)	0.00021 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	9.9E-05 (J)	<0.0005	0.00011 (J)	6.8E-05 (J)			
3/4/2021					<0.0005	<0.0005	0.00021 (J)
8/26/2021			9.3E-05 (J)			<0.0005	
8/27/2021	0.0001 (J)	<0.0005		5.9E-05 (J)			
9/1/2021					<0.0005		
9/3/2021							0.00024 (J)
2/8/2022						<0.0005	0.00028 (J)
2/9/2022	0.00011 (J)	<0.0005	8.9E-05 (J)	7.7E-05 (J)	<0.0005		
8/30/2022	0.0001 (J)	<0.0005	8.2E-05 (J)		<0.0005		
8/31/2022				<0.0005		<0.0005	0.00025 (J)
2/7/2023	9.6E-05 (J)	<0.0005	7.1E-05 (J)	7.4E-05 (J)	<0.0005	<0.0005	
2/8/2023							0.00026 (J)
8/15/2023	<0.0005	<0.0005	5.7E-05 (J)	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	0.0001 (J)	<0.0005		<0.0005	<0.0005	<0.0005	0.00025 (J)
2/23/2024			<0.0005				
8/20/2024	0.0001 (J)	<0.0005		<0.0005	<0.0005		
8/21/2024			<0.0005			<0.0005	0.00023 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.0005	
9/11/2007				<0.0005	
3/20/2008				<0.0005	
8/27/2008				<0.0005	
3/3/2009				<0.0005	
11/18/2009				<0.0005	
3/3/2010				<0.0005	
9/8/2010				<0.0005	
3/10/2011				<0.0005	
9/8/2011				<0.0005	
3/5/2012				<0.0005	
9/10/2012				<0.0005	
2/6/2013				<0.0005	
8/12/2013				<0.0005	
2/5/2014				<0.0005	
8/5/2014				<0.0005	
2/4/2015				<0.0005	
8/3/2015				<0.0005	
2/16/2016				<0.0005	
6/2/2016	<0.0005	<0.0005	<0.0005		
6/9/2016					<0.0005
7/26/2016	<0.0005	<0.0005	<0.0005		
8/2/2016					<0.0005
8/31/2016				<0.0005	
9/14/2016	<0.0005	<0.0005	<0.0005		
9/21/2016					<0.0005
11/2/2016	<0.0005	<0.0005			
11/4/2016			<0.0005		
11/7/2016					<0.0005
11/28/2016				<0.0005	
1/12/2017		<0.0005	<0.0005		
1/13/2017	<0.0005				
1/19/2017					<0.0005
2/22/2017				<0.0005	<0.0005
3/6/2017	<0.0005				
3/7/2017		<0.0005	<0.0005		
5/1/2017	<0.0005	<0.0005			
5/2/2017			<0.0005		
5/8/2017				<0.0005	<0.0005
6/27/2017		<0.0005	<0.0005		
6/29/2017	<0.0005				
7/5/2017					<0.0005
7/17/2017				<0.0005	
10/16/2017				<0.0005	
2/19/2018				<0.0005	
3/29/2018	<0.0005	<0.0005	<0.0005		<0.0005
6/6/2018		<0.0005			
6/7/2018	<0.0005		<0.0005		
8/6/2018				<0.0005	
9/26/2018	<0.0005	<0.0005	<0.0005		
2/25/2019				<0.0005	
2/27/2019					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Beryllium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
3/4/2019	<0.0005	<0.0005	<0.0005		
4/1/2019					<0.0005
4/3/2019	<0.0005	<0.0005	<0.0005		
6/12/2019				<0.0005	
8/19/2019				<0.0005	
9/24/2019		<0.0005	<0.0005		
9/25/2019	<0.0005				<0.0005
10/8/2019				<0.0005	
2/12/2020	<0.0005	<0.0005	<0.0005		
2/13/2020					<0.0005
3/17/2020				<0.0005	
3/20/2020					<0.0005
3/24/2020		<0.0005	<0.0005		
3/25/2020	<0.0005				
8/26/2020				<0.0005	
9/22/2020	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020					<0.0005
2/8/2021		<0.0005	<0.0005		
2/9/2021	<0.0005				
2/12/2021					<0.0005
3/2/2021		<0.0005	<0.0005	<0.0005	
3/3/2021	<0.0005				<0.0005
8/20/2021				<0.0005	<0.0005
8/26/2021	<0.0005	<0.0005	<0.0005		
2/8/2022				<0.0005	<0.0005
2/10/2022		<0.0005	<0.0005		
2/11/2022	<0.0005				
8/30/2022		<0.0005	<0.0005	<0.0005	
8/31/2022	<0.0005				
9/1/2022					<0.0005
2/7/2023		<0.0005		<0.0005	
2/8/2023					<0.0005
2/9/2023	<0.0005		<0.0005		
8/2/2023					<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	
2/22/2024					<0.0005
8/20/2024	<0.0005	<0.0005	<0.0005		
8/22/2024					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.04	<0.04				<0.04
6/2/2016	<0.04				<0.04	<0.04	
7/25/2016			<0.04		<0.04		<0.04
7/26/2016	0.0177 (J)	0.0055 (J)				0.0097 (J)	
9/13/2016		<0.04	<0.04				
9/14/2016				<0.04			<0.04
9/15/2016	0.0214 (J)					0.0102 (J)	
9/19/2016					<0.04		
11/1/2016		0.0086 (J)			<0.04	<0.04	<0.04
11/2/2016	<0.04						
11/4/2016			<0.04	<0.04			
12/15/2016				0.0107 (J)			
1/10/2017	0.0198 (J)						
1/11/2017		0.0074 (J)				<0.04	<0.04
1/16/2017			<0.04	<0.04	<0.04		
2/21/2017					<0.04		
3/1/2017							<0.04
3/2/2017		0.008 (J)	<0.04			0.0084 (J)	
3/3/2017				<0.04			
3/8/2017	0.0189 (J)						
4/26/2017	0.0161 (J)				<0.04	<0.04	<0.04
4/27/2017		0.0066 (J)	<0.04				
4/28/2017				<0.04			
5/26/2017				<0.04			
6/27/2017		0.0087 (J)	0.006 (J)				
6/28/2017				<0.04		<0.04	<0.04
6/30/2017	0.0173 (J)				<0.04		
10/3/2017		0.0072 (J)	0.0071 (J)	<0.04			
10/4/2017					<0.04	<0.04	<0.04
10/5/2017	0.0173 (J)						
6/5/2018		0.0052 (J)					
6/6/2018			<0.04				
6/7/2018				<0.04		0.004 (J)	
6/8/2018	0.013 (J)						<0.04
6/11/2018					0.014 (J)		
10/1/2018	0.015 (J)	0.021 (J)	0.0049 (J)	<0.04		<0.04	<0.04
10/2/2018					<0.04		
3/28/2019		0.005 (J)	<0.04				
3/29/2019	0.014 (J)			0.0065 (J)			
4/1/2019					<0.04	<0.04	<0.04
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)			
9/25/2019	0.018 (J)				<0.04	0.0054 (J)	<0.04
3/18/2020	0.02 (J)		0.0087 (J)				
3/19/2020		0.0085 (J)		0.0073 (J)	0.0052 (J)	0.0073 (J)	0.0053 (J)
9/23/2020		<0.04	<0.04	<0.04		0.012 (J)	0.0073 (J)
9/24/2020					0.0075 (J)		
9/25/2020	0.02 (J)						
3/1/2021					<0.04		
3/2/2021	0.017 (J)						
3/3/2021		<0.04	<0.04	<0.04		<0.04	<0.04
8/19/2021	0.018 (J)	<0.04	<0.04		<0.04	<0.04	
8/27/2021				<0.04			<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		<0.04	<0.04	<0.04		0.01 (J)	<0.04
2/10/2022	0.02 (J)						
2/11/2022					<0.04		
8/30/2022		<0.04		<0.04			
8/31/2022	0.015 (J)		<0.04		<0.04	<0.04	<0.04
2/7/2023		<0.04	<0.04	<0.04			
2/8/2023	0.015 (J)				<0.04	<0.04	<0.04
8/15/2023	0.017 (J)	<0.04	0.0094 (J)	<0.04		<0.04	
8/16/2023					<0.04		<0.04
2/20/2024		0.015 (J)	0.014 (J)	<0.04	<0.04	<0.04	<0.04
2/23/2024	0.037 (J)						
8/20/2024	0.014 (J)	<0.04	<0.04	<0.04	<0.04	<0.04	<0.04

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	
8/30/2016							0.0166 (J)
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	
11/7/2016	0.852	0.621	1.91	1.35		2.49	
11/8/2016					2.44		
11/14/2016							0.0166 (J)
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		
2/23/2017			1.76				
2/24/2017							0.0145 (J)
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.0141 (J)
6/30/2017			2.28	1.47			
7/5/2017					2.7		
7/7/2017						3.01	
7/10/2017	0.855	0.58					
7/11/2017							0.0131 (J)
10/5/2017					2.53		
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					0.0124 (J)
4/2/2018							0.013 (J)
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
9/19/2018							0.012 (J)
10/2/2018	0.93	0.62	1.9	1.4			
10/3/2018					2.3	2.4	
3/27/2019							0.013 (J)
4/1/2019			2.4	1.4	2.7		
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					
9/26/2019			1.9	1.5	2.8	2.5	
10/8/2019							0.012 (J)
3/17/2020							0.023 (J)
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			
9/22/2020							0.0076 (J)
9/24/2020	0.76	0.74	2.3	1.3	2.1	2.6	
3/1/2021							0.013 (J)
3/2/2021		0.57					
3/3/2021	0.69		2	1.2	1.8	2.3	
8/19/2021		0.71					0.011 (J)
8/20/2021	0.72		2.5	1.2	2.3	2.5	
2/8/2022				1.1	2.4	2.4	0.015 (J)
2/10/2022	0.79	0.79	2.5				

Time Series

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	0.64	0.7					0.0091 (J)
9/1/2022			2.3	1	1.8	2.2	
2/8/2023							0.011 (J)
2/9/2023	0.75	0.74	2.2	1	1.8	2.3	
8/15/2023							<0.04
8/16/2023					1.7	2.1	
8/17/2023	0.73	0.72	2.1	0.95			
2/20/2024							0.023 (J)
2/21/2024			1.8	0.91	1.6	2.3	
2/22/2024	0.77	0.78					
8/20/2024							<0.04
8/21/2024	0.59	0.68	1.9				
8/22/2024				0.92	1.8	2.1	

Time Series

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.04	<0.04				
6/7/2016	<0.04			<0.04	<0.04		
7/27/2016	0.008 (J)	<0.04	0.0059 (J)	<0.04			
7/28/2016					<0.04		
9/16/2016	0.0086 (J)		0.0079 (J)				
9/19/2016		<0.04		<0.04	<0.04		
11/2/2016				<0.04			
11/3/2016	0.0077 (J)	<0.04	0.0082 (J)		<0.04		
1/11/2017	0.0092 (J)	<0.04	0.0096 (J)				
1/13/2017				<0.04	<0.04		
3/1/2017		<0.04	<0.04				
3/2/2017	0.0095 (J)						
3/6/2017				<0.04	<0.04		
4/26/2017		<0.04	0.0091 (J)	<0.04	<0.04		
5/2/2017	<0.04						
6/28/2017		<0.04	0.0079 (J)				
6/29/2017	0.0074 (J)			<0.04	<0.04		
10/3/2017					<0.04		
10/4/2017	0.0077 (J)		0.009 (J)	<0.04			
10/5/2017		<0.04					
10/11/2017						0.0135 (J)	
10/12/2017							0.0401
11/20/2017						0.0251 (J)	0.156
1/10/2018							0.15
1/11/2018						0.0255 (J)	
2/19/2018							0.146
2/20/2018						<0.04	
4/3/2018						0.033 (J)	0.12
6/5/2018					0.0092 (J)		
6/6/2018				0.0049 (J)			
6/7/2018		<0.04					
6/11/2018	0.01 (J)		0.0093 (J)				
6/28/2018						0.053	0.16
8/7/2018						0.024 (J)	0.12
9/24/2018						0.028 (J)	0.099
9/25/2018	0.0096 (J)	0.0046 (J)	0.007 (J)	<0.04	0.0054 (J)		
3/26/2019							0.096
3/27/2019						0.017 (J)	
4/2/2019	0.0066 (J)				0.011 (J)		
4/3/2019		<0.04	0.0053 (J)	<0.04			
9/24/2019					0.018 (J)		
9/25/2019	0.0081 (J)			<0.04			
9/26/2019		0.0062 (J)	0.0072 (J)				
10/9/2019						0.017 (J)	0.079
3/24/2020	0.0092 (J)	0.0054 (J)	0.01 (J)	<0.04	0.016 (J)		0.088 (J)
3/25/2020						0.043 (J)	
9/23/2020	0.0066 (J)	0.021 (J)	0.006 (J)				
9/24/2020				0.0094 (J)	0.013 (J)	0.037 (J)	0.087 (J)
3/3/2021	0.01 (J)	<0.04	0.0094 (J)	<0.04			
3/4/2021					0.0079 (J)	0.033 (J)	0.078
8/26/2021			<0.04			0.095	
8/27/2021	0.011 (J)	<0.04		<0.04			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					<0.04		
9/3/2021							0.077
2/8/2022						0.13	0.074
2/9/2022	0.0098 (J)	<0.04	<0.04	<0.04	<0.04		
8/30/2022	0.013 (J)	<0.04	0.014 (J)		0.012 (J)		
8/31/2022				<0.04		0.14	0.062
2/7/2023	0.014 (J)	<0.04	<0.04	<0.04	<0.04	0.13	
2/8/2023							0.057
8/15/2023	<0.04	<0.04	<0.04	<0.04	0.046 (J)	0.15 (J)	0.052 (J)
2/20/2024	<0.04	<0.04		<0.04	<0.04	0.12	0.056
2/23/2024			0.018 (J)				
8/20/2024	<0.04	<0.04		<0.04	<0.04		
8/21/2024			<0.04			0.13	0.061

Time Series

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	<0.04	<0.04	<0.04		
6/9/2016					0.88
7/26/2016	0.0047 (J)	0.0052 (J)	<0.04		
8/2/2016					0.872
8/31/2016				0.0315 (J)	
9/14/2016	<0.04	0.0071 (J)	0.01 (J)		
9/21/2016					0.853
11/2/2016	<0.04	<0.04			
11/4/2016			<0.04		
11/7/2016					0.815
11/28/2016				0.0095 (J)	
1/12/2017		0.0076 (J)	<0.04		
1/13/2017	<0.04				
1/19/2017					0.803
2/22/2017				<0.04	0.855
3/6/2017	<0.04				
3/7/2017		0.0089 (J)	<0.04		
5/1/2017	<0.04	0.0061 (J)			
5/2/2017			<0.04		
5/8/2017				0.0084 (J)	0.884
6/27/2017		0.0079 (J)	<0.04		
6/29/2017	<0.04				
7/5/2017					0.811
7/17/2017				0.0092 (J)	
10/3/2017		0.0094 (J)	<0.04		
10/5/2017	<0.04				0.851
10/16/2017				<0.04	
2/19/2018				<0.04	
6/6/2018		0.0098 (J)			
6/7/2018	0.0045 (J)		<0.04		
6/11/2018					0.9
8/6/2018				<0.04	
9/26/2018	0.005 (J)	0.01 (J)	0.0057 (J)		
10/2/2018					0.81
2/25/2019				<0.04	
4/1/2019					0.85
4/3/2019	0.0055 (J)	0.0076 (J)	0.0044 (J)		
6/12/2019				<0.04	
9/24/2019		0.01 (J)	0.0049 (J)		
9/25/2019	<0.04				0.73
10/8/2019				<0.04	
3/17/2020				0.0051 (J)	
3/20/2020					0.8
3/24/2020		0.011 (J)	0.0068 (J)		
3/25/2020	0.011 (J)				
9/22/2020	<0.04	0.0079 (J)	0.0053 (J)	0.0079 (J)	
9/24/2020					0.84
3/2/2021		0.0068 (J)	0.011 (J)	<0.04	
3/3/2021	0.0056 (J)				0.62
8/20/2021				<0.04	0.66
8/26/2021	<0.04	0.009 (J)	<0.04		
2/8/2022				<0.04	0.71

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		0.011 (J)	<0.04		
2/11/2022	<0.04				
8/30/2022		0.0098 (J)	<0.04	<0.04	
8/31/2022	<0.04				
9/1/2022					0.71
2/7/2023		<0.04		<0.04	
2/8/2023					0.9
2/9/2023	<0.04		<0.04		
8/2/2023					0.75
8/15/2023	<0.04	<0.04	<0.04	<0.04	
2/20/2024	<0.04	<0.04	<0.04	0.017 (J)	
2/22/2024					1.1
8/20/2024	<0.04	<0.04	<0.04		
8/22/2024					0.82

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	<0.0005	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	<0.0005					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	<0.0005						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	<0.0005						
1/11/2017		0.0002 (J)				0.0001 (J)	8E-05 (J)
1/16/2017			<0.0005	<0.0005	<0.0005		
2/21/2017					<0.0005		
3/1/2017							<0.0005
3/2/2017		<0.0005	<0.0005			<0.0005	
3/3/2017				<0.0005			
3/8/2017	7E-05 (J)						
4/26/2017	<0.0005				<0.0005	<0.0005	<0.0005
4/27/2017		<0.0005	<0.0005				
4/28/2017				<0.0005			
5/26/2017				<0.0005			
6/27/2017		<0.0005	<0.0005				
6/28/2017				<0.0005		<0.0005	<0.0005
6/30/2017	<0.0005				<0.0005		
3/27/2018	<0.0005		<0.0005		<0.0005		
3/28/2018				<0.0005		<0.0005	<0.0005
3/29/2018		<0.0005					
2/26/2019	<0.0005				<0.0005		
2/27/2019		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
3/28/2019		<0.0005	<0.0005				
3/29/2019	<0.0005			<0.0005			
4/1/2019					<0.0005	<0.0005	<0.0005
9/24/2019		<0.0005	<0.0005	<0.0005			
9/25/2019	<0.0005				<0.0005	<0.0005	<0.0005
2/10/2020		<0.0005	<0.0005				
2/11/2020				<0.0005			<0.0005
2/12/2020	<0.0005				<0.0005	<0.0005	
3/18/2020	<0.0005		<0.0005				
3/19/2020		<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
9/23/2020		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
9/24/2020					<0.0005		
9/25/2020	<0.0005						
2/10/2021	<0.0005			<0.0005		<0.0005	<0.0005
2/11/2021					<0.0005		
2/12/2021		<0.0005	<0.0005				
3/1/2021					<0.0005		
3/2/2021	<0.0005						
3/3/2021		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
8/19/2021	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.0005			<0.0005
2/9/2022		<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
2/10/2022	<0.0005						
2/11/2022					<0.0005		
8/30/2022		<0.0005		<0.0005			
8/31/2022	<0.0005		<0.0005		<0.0005	<0.0005	<0.0005
2/7/2023		<0.0005	<0.0005	<0.0005			
2/8/2023	<0.0005				<0.0005	<0.0005	0.00013 (J)
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
8/16/2023					<0.0005		<0.0005
2/20/2024		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024	<0.0005						
8/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					0.00055 (J)	<0.0005	
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					0.0001 (J)	<0.0005	
8/30/2016							0.0001 (J)
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					0.0001 (J)	<0.0005	
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	
11/8/2016					9E-05 (J)		
11/14/2016							0.0001 (J)
1/18/2017	<0.0005	<0.0005	<0.0005		9E-05 (J)	<0.0005	
1/19/2017				<0.0005			
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	0.0001 (J)		
2/23/2017			<0.0005				
2/24/2017							9E-05 (J)
5/3/2017		<0.0005					
5/5/2017					9E-05 (J)	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			0.0001 (J)
6/30/2017			<0.0005	<0.0005			
7/5/2017					0.0002 (J)		
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
7/11/2017							<0.0005
10/10/2017							<0.0005
3/29/2018			<0.0005	<0.0005			
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
4/2/2018							<0.0005
9/19/2018							<0.0005
2/27/2019	<0.0005	<0.0005	<0.0005	<0.0005	0.00014 (J)	<0.0005	
4/1/2019			<0.0005	<0.0005	0.00043 (J)		
4/2/2019	<0.0005	<0.0005				<0.0005	
8/20/2019							<0.0005
9/25/2019	<0.0005	<0.0005					
9/26/2019			<0.0005	<0.0005	<0.0005	<0.0005	
10/8/2019							<0.0005
2/13/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00013 (J)	<0.0005	
3/17/2020							<0.0005
3/19/2020		<0.0005			0.00016 (J)	<0.0005	
3/20/2020	<0.0005		<0.0005	<0.0005			
8/27/2020							<0.0005
9/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	0.00027 (J)	<0.0005	
2/10/2021	<0.0005	<0.0005	<0.0005	<0.0005			
2/11/2021					0.00052 (J)		
2/12/2021						0.00048 (J)	
3/2/2021		<0.0005					
3/3/2021	<0.0005		<0.0005	<0.0005	0.00014 (J)	<0.0005	
8/19/2021		<0.0005					<0.0005
8/20/2021	<0.0005		<0.0005	<0.0005	0.00027 (J)	<0.0005	
2/8/2022				<0.0005	0.00033 (J)	<0.0005	<0.0005
2/10/2022	<0.0005	<0.0005	<0.0005				
8/31/2022	<0.0005	<0.0005					<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
9/1/2022			<0.0005	<0.0005	0.00017 (J)	<0.0005	
2/8/2023							0.00032 (J)
2/9/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
8/15/2023							<0.0005
8/16/2023					<0.0005	<0.0005	
8/17/2023	<0.0005	<0.0005	<0.0005	<0.0005			
2/20/2024							<0.0005
2/21/2024			<0.0005	<0.0005	<0.0005	<0.0005	
2/22/2024	<0.0005	<0.0005					
8/20/2024							<0.0005
8/21/2024	<0.0005	<0.0005	<0.0005				
8/22/2024				<0.0005	0.00016 (J)	<0.0005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.0005	<0.0005				
6/7/2016	<0.0005			<0.0005	<0.0005		
7/27/2016	<0.0005	<0.0005	<0.0005	<0.0005			
7/28/2016					<0.0005		
9/16/2016	<0.0005		<0.0005				
9/19/2016		<0.0005		<0.0005	<0.0005		
11/2/2016				<0.0005			
11/3/2016	<0.0005	<0.0005	<0.0005		<0.0005		
1/11/2017	0.0001 (J)	<0.0005	0.0001 (J)				
1/13/2017				<0.0005	<0.0005		
3/1/2017		<0.0005	<0.0005				
3/2/2017	<0.0005						
3/6/2017				<0.0005	<0.0005		
4/26/2017		<0.0005	<0.0005	<0.0005	<0.0005		
5/2/2017	<0.0005						
6/28/2017		<0.0005	<0.0005				
6/29/2017	<0.0005			<0.0005	<0.0005		
10/11/2017						<0.0005	
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	
3/28/2018	<0.0005	<0.0005	<0.0005				
3/29/2018				<0.0005	<0.0005		
4/3/2018						<0.0005	<0.0005
6/5/2018					<0.0005		
6/6/2018				<0.0005			
6/7/2018		<0.0005					
6/11/2018	<0.0005		<0.0005				
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	<0.0005	<0.0005	<0.0005	9.6E-05 (J)		
3/5/2019	<0.0005		<0.0005	<0.0005	<0.0005		
3/6/2019		<0.0005					
4/2/2019	<0.0005				<0.0005		
4/3/2019		<0.0005	<0.0005	<0.0005			
8/21/2019						<0.0005	<0.0005
9/24/2019					<0.0005		
9/25/2019	<0.0005			<0.0005			
9/26/2019		<0.0005	<0.0005				
10/9/2019						<0.0005	<0.0005
2/11/2020	<0.0005	<0.0005	<0.0005				
2/12/2020				<0.0005	<0.0005	<0.0005	<0.0005
3/24/2020	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005
3/25/2020						<0.0005	
9/23/2020	<0.0005	<0.0005	<0.0005				
9/24/2020				<0.0005	<0.0005	<0.0005	<0.0005
2/9/2021		<0.0005	<0.0005	<0.0005	0.00041 (J)		
2/10/2021						0.00019 (J)	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.0005	<0.0005	<0.0005	<0.0005			
3/4/2021					<0.0005	0.0003 (J)	<0.0005
8/26/2021			<0.0005			0.00049 (J)	
8/27/2021	<0.0005	<0.0005		<0.0005			
9/1/2021					<0.0005		
9/3/2021							<0.0005
2/8/2022						0.00063	<0.0005
2/9/2022	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005		
8/30/2022	<0.0005	<0.0005	<0.0005		<0.0005		
8/31/2022				<0.0005		0.00044 (J)	<0.0005
2/7/2023	<0.0005	<0.0005	<0.0005	<0.0005	0.00012 (J)	0.00014 (J)	
2/8/2023							<0.0005
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	<0.0005
2/20/2024	<0.0005	<0.0005		<0.0005	<0.0005	<0.0005	<0.0005
2/23/2024			<0.0005				
8/20/2024	<0.0005	<0.0005		<0.0005	<0.0005		
8/21/2024			<0.0005			<0.0005	<0.0005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.0005	
9/11/2007				<0.0005	
3/20/2008				<0.0005	
8/27/2008				<0.0005	
3/3/2009				<0.0005	
11/18/2009				<0.0005	
3/3/2010				<0.0005	
9/8/2010				<0.0005	
3/10/2011				<0.0005	
9/8/2011				<0.0005	
3/5/2012				<0.0005	
9/10/2012				<0.0005	
2/6/2013				<0.0005	
8/12/2013				<0.0005	
2/5/2014				<0.0005	
8/5/2014				<0.0005	
2/4/2015				<0.0005	
8/3/2015				<0.0005	
2/16/2016				<0.0005	
6/2/2016	<0.0005	<0.0005	<0.0005		
6/9/2016					<0.0025
7/26/2016	<0.0005	<0.0005	<0.0005		
8/2/2016					0.0001 (J)
8/31/2016				<0.0005	
9/14/2016	<0.0005	<0.0005	<0.0005		
9/21/2016					0.0002 (J)
11/2/2016	<0.0005	<0.0005			
11/4/2016			<0.0005		
11/7/2016					0.0002 (J)
11/28/2016				<0.0005	
1/12/2017		<0.0005	9E-05 (J)		
1/13/2017	<0.0005				
1/19/2017					0.0001 (J)
2/22/2017				<0.0005	0.0001 (J)
3/6/2017	<0.0005				
3/7/2017		<0.0005	<0.0005		
5/1/2017	<0.0005	<0.0005			
5/2/2017			<0.0005		
5/8/2017				<0.0005	0.0002 (J)
6/27/2017		<0.0005	<0.0005		
6/29/2017	<0.0005				
7/5/2017					0.0002 (J)
7/17/2017				<0.0005	
10/16/2017				<0.0005	
2/19/2018				<0.0005	
3/29/2018	<0.0005	<0.0005	<0.0005		<0.0025
6/6/2018		<0.0005			
6/7/2018	<0.0005		<0.0005		
8/6/2018				<0.0005	
9/26/2018	<0.0005	<0.0005	<0.0005		
2/25/2019				<0.0005	
2/27/2019					0.00026 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cadmium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
3/4/2019	<0.0005	<0.0005	<0.0005		
4/1/2019					0.00022 (J)
4/3/2019	<0.0005	<0.0005	<0.0005		
6/12/2019				<0.0005	
8/19/2019				<0.0005	
9/24/2019		<0.0005	<0.0005		
9/25/2019	<0.0005				0.00024 (J)
10/8/2019				<0.0005	
2/12/2020	<0.0005	<0.0005	<0.0005		
2/13/2020					0.00018 (J)
3/17/2020				<0.0005	
3/20/2020					0.00022 (J)
3/24/2020		<0.0005	<0.0005		
3/25/2020	<0.0005				
8/26/2020				<0.0005	
9/22/2020	<0.0005	<0.0005	<0.0005	<0.0005	
9/24/2020					0.00033 (J)
2/8/2021		<0.0005	<0.0005		
2/9/2021	<0.0005				
2/12/2021					<0.0025
3/2/2021		<0.0005	<0.0005	<0.0005	
3/3/2021	<0.0005				0.00029 (J)
8/20/2021				<0.0005	0.00027 (J)
8/26/2021	<0.0005	<0.0005	<0.0005		
2/8/2022				<0.0005	0.00019 (J)
2/10/2022		<0.0005	<0.0005		
2/11/2022	<0.0005				
8/30/2022		<0.0005	<0.0005	<0.0005	
8/31/2022	<0.0005				
9/1/2022					0.0002 (J)
2/7/2023		<0.0005		0.00012 (J)	
2/8/2023					0.00028 (J)
2/9/2023	<0.0005		<0.0005		
8/2/2023					0.00016 (J)
8/15/2023	<0.0005	<0.0005	<0.0005	<0.0005	
2/20/2024	<0.0005	<0.0005	<0.0005	<0.0005	
2/22/2024					0.00012 (J)
8/20/2024	0.00019 (J)	<0.0005	<0.0005		
8/22/2024					0.00014 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		12	2.5				21
6/2/2016	1.3				1.3	28	
7/25/2016			2.16		1.17		20.3
7/26/2016	1.24	11				24.5	
9/13/2016		11.8	2.21				
9/14/2016				23.5			19.7
9/15/2016	1.17					27	
9/19/2016					1.05		
11/1/2016		11			1.14	25.6	18.4
11/2/2016	1.23						
11/4/2016			2.67	23.7			
12/15/2016				23.1			
1/10/2017	1.24						
1/11/2017		11.2				27.5	20.3
1/16/2017			2.45	23.3	1.23		
2/21/2017					1.25		
3/1/2017							18.6
3/2/2017		11	2.57			27.5	
3/3/2017				25.1			
3/8/2017	1.21						
4/26/2017	1.14				1.03	30.4	25.6
4/27/2017		11.1	2.38				
4/28/2017				30.7			
5/26/2017				26.2			
6/27/2017		13.8	2.36				
6/28/2017				26.1		29.8	23.9
6/30/2017	1.24				1.13		
10/3/2017		14	2.21	26.7			
10/4/2017					1.09	29.7	22.1
10/5/2017	1.11						
6/5/2018		15.2 (J)					
6/6/2018			2.3				
6/7/2018				25		29.1	
6/8/2018	1.1						21.9 (J)
6/11/2018					1.1		
10/1/2018	0.99	15.1	1.8	25		26.9	19.7
10/2/2018					1.1		
3/28/2019		13.3 (J)	2.2				
3/29/2019	1.1			23.5 (J)			
4/1/2019					1.3	30.1	20.4 (J)
9/24/2019		15.8	2.3	26.4			
9/25/2019	1.1				1.1	29.5	22.4
3/18/2020	1.1		2.1				
3/19/2020		15		27.4	1.2	31.5	21.9
9/23/2020		14.1	1.8	26.3		28.6	23.6
9/24/2020					1.1		
9/25/2020	1.3						
3/1/2021					1.2		
3/2/2021	1.2						
3/3/2021		14.1	1.8	25.6		29.8	20.6
8/19/2021	1.2	14.2	2		1.2	28.1	
8/27/2021				22.6			24.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		14.9	2.1	23.4		30.3	23.7
2/10/2022	1.3						
2/11/2022					1.5		
8/30/2022		14.9		25.4			
8/31/2022	1.3		1.9		1.3	28.7	23.5
2/7/2023		15	2.2	25.6			
2/8/2023	1.5				1.3	28.9	23.3
8/15/2023	1.3	13.5	1.8	23.2		27.4	
8/16/2023					1.4		24.9
2/20/2024		15.3	2.2	28.2	1.3	30.7	23.7
2/23/2024	1.6						
8/20/2024	1.3	17.7	1.9	30.4	1.4	30	23.4

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	15	13	25	44			
6/9/2016					36	26	
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	
8/30/2016							20.9
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	
11/7/2016	13.8	12.1	26.1	34.9		25.1	
11/8/2016					33.8		
11/14/2016							18.6
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		
2/23/2017			28.2				
2/24/2017							16.1
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			14.6
6/30/2017			27.2	36.2			
7/5/2017					33.4		
7/7/2017						28.6	
7/10/2017	17.4	12.7					
7/11/2017							14.3
10/5/2017					36.4		
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					12.1
4/2/2018							<25
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
9/19/2018							11.1 (J)
10/2/2018	14.7	12.4 (J)	29.2	39.1			
10/3/2018					32.6	25.8	
3/27/2019							10.8 (J)
4/1/2019			27.4	38	33.8		
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					
9/26/2019			24.2	37.5	32	26.1	
10/8/2019							9.7
3/17/2020							14.8
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			
9/22/2020							10.1
9/24/2020	16.9	11.3	27.9	38.6	34.3	30.8	
3/1/2021							10.3
3/2/2021		12.9					
3/3/2021	16.1		25.7	30.2	30.9	28.4	
8/19/2021		11.5					9.6
8/20/2021	17.2		25.7	29.9	33.1	27.8	
2/8/2022				27.2	31.8	26.7	9.4
2/10/2022	16.4	11.6	27.4				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	16.4	10.8					9.6
9/1/2022			28.2	21.3	26.3	33.1	
2/8/2023							9.2
2/9/2023	15.8	10.7	26.9	20.1	27.7	33.1	
8/15/2023							9.6
8/16/2023					27.3	31.2	
8/17/2023	15.6	10.8	25.4	20.8			
2/20/2024							10.3
2/21/2024			27.7	20.4	27.8	31	
2/22/2024	16.7	11					
8/20/2024							10
8/21/2024	16.7	11.6	26.9				
8/22/2024				21.3	28.8	30.4	

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		6.2	1.4				
6/7/2016	2.2			2.3	3.7		
7/27/2016	2	4.73	1.19	2.08			
7/28/2016					3.15		
9/16/2016	1.97		1.5				
9/19/2016		4.76		1.97	3.17		
11/2/2016				2.13			
11/3/2016	1.99	5.25	1.31		3.4		
1/11/2017	2.28	4.74	1.25				
1/13/2017				2.45	4.98		
3/1/2017		5.37	1.26				
3/2/2017	2.15						
3/6/2017				2.48	6.28		
4/26/2017		4.28	1.05	2.3	6.65		
5/2/2017	1.95						
6/28/2017		4.95	1.06				
6/29/2017	2.02			2.54	6.04		
10/3/2017					8.28		
10/4/2017	2.03		1.1	2.25			
10/5/2017		5.28					
10/11/2017						2.74	
10/12/2017							2.9
11/20/2017						1.81	10.4
1/10/2018							10.2
1/11/2018						1.54	
2/19/2018							<25
2/20/2018						1.71	
4/3/2018						1.4	6.3
6/5/2018					9.1		
6/6/2018				2.3			
6/7/2018		4.8					
6/11/2018	2.1		1.4				
6/28/2018						1.4	6.7
8/7/2018						1.2	6.3
9/24/2018						1.1	5.7
9/25/2018	2.1	4.6	1	2.3	10.4 (J)		
3/26/2019							5.6
3/27/2019						1.5	
4/2/2019	2.5				8.8		
4/3/2019		5.3	1.2	2.9			
9/24/2019					7.7		
9/25/2019	2.6			2.4			
9/26/2019		4.9	1.1				
10/9/2019						2.4	4.9
3/24/2020	2.7	5.3	1	2.6	6		4.8
3/25/2020						2.7	
9/23/2020	2.6	5.2	0.91 (J)				
9/24/2020				2.6	7.8	3.7	4.4
3/3/2021	2.5	5.2	0.96 (J)	2.4			
3/4/2021					8.7	8.2	4.6
8/26/2021			0.98 (J)			14.1	
8/27/2021	2.7	5.1		2.4			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					9.5		
9/3/2021							5.6
2/8/2022						15.2	6
2/9/2022	2.8	5.1	0.87 (J)	2.3	9.8		
8/30/2022	3	5.7	0.77 (J)		7.3		
8/31/2022				2.4		16.3	6.2
2/7/2023	2.9	5.5	0.79 (J)	2.4	7.5	16.1	
2/8/2023							5.9
8/15/2023	2.9	5.1	0.8 (J)	2.2	6.1	17.2	5.3
2/20/2024	3.2	5.6		2.5	7	16.9	5.6
2/23/2024			0.84 (J)				
8/20/2024	3.5	5.9		2.8	6.9		
8/21/2024			0.96 (J)			19.7	6

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	8.8	33	2.4		
6/9/2016					12
7/26/2016	7.69	32.3	2.12		
8/2/2016					11.7
8/31/2016				9.31	
9/14/2016	8.49	31	2.18		
9/21/2016					11.1
11/2/2016	7.83	30.9			
11/4/2016			2.17 (J)		
11/7/2016					11.4
11/28/2016				9.47 (B)	
1/12/2017		35.7	2.37		
1/13/2017	8.08				
1/19/2017					12
2/22/2017				10.4	11.2
3/6/2017	8.64				
3/7/2017		32.7	2.34		
5/1/2017	13.4	37			
5/2/2017			2.17		
5/8/2017				14.2	11.2
6/27/2017		36.5	2.13		
6/29/2017	8.81				
7/5/2017					11.9
7/17/2017				14.1	
10/3/2017		30.9	2.15		
10/5/2017	9.29				12
10/16/2017				13.6	
2/19/2018				<25	
6/6/2018		26.2			
6/7/2018	8.2		2.3		
6/11/2018					12.1
8/6/2018				11.4 (J)	
9/26/2018	9.5 (J)	25.8	2.3		
10/2/2018					11.7 (J)
2/25/2019				12.7 (J)	
4/1/2019					11.9 (J)
4/3/2019	8.4	24.7 (J)	2.8		
6/12/2019				18.9	
9/24/2019		25.8	2.5		
9/25/2019	9.5				10.7
10/8/2019				28.3	
3/17/2020				24.3	
3/20/2020					12.7
3/24/2020		26.1	2.5		
3/25/2020	10.5				
9/22/2020	9.6	27.2	2.6	31	
9/24/2020					12.4
3/2/2021		1.6	2.6	34.2	
3/3/2021	7.7				9.5
8/20/2021				26.5	10.2
8/26/2021	7.6	25.2	2.5		
2/8/2022				25.6	9.3

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		24.8	2.5		
2/11/2022	7.5				
8/30/2022		24.8	2.5	23.5	
8/31/2022	8.9				
9/1/2022					11
2/7/2023		26.6		22.3	
2/8/2023					11.9
2/9/2023	9.6		2.8		
8/2/2023					11.8
8/15/2023	7.8	25	2.6	20.3	
2/20/2024	9.9	27.2	2.7	22.8	
2/22/2024					11.5
8/20/2024	9.1	29.1	3.2		
8/22/2024					11.2

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6				1.3
6/2/2016	4.1				1.9	1.4	
7/25/2016			1.4		1.7		1.3
7/26/2016	4	1.2				1.6	
9/13/2016		1.1	1.3				
9/14/2016				1.1			1.3
9/15/2016	4.2					1.5	
9/19/2016					1.6		
11/1/2016		1.3			1.8	1.7	1.4
11/2/2016	4.9						
11/4/2016			1.6	1.4			
12/15/2016				2.9			
1/10/2017	4.1						
1/11/2017		1.1				1.2	1.1
1/16/2017			1.4	0.98	1.7		
2/21/2017					1.7		
3/1/2017							1.1
3/2/2017		1	1.3			1.2	
3/3/2017				1.1			
3/8/2017	4.2						
4/26/2017	4.1				1.7	1.2	1.1
4/27/2017		1	1.3				
4/28/2017				0.91			
5/26/2017				0.93			
6/27/2017		1.1	1.4				
6/28/2017				1		1.3	1.2
6/30/2017	3.7				1.8		
10/3/2017		1.1	1.7	1.2			
10/4/2017					1.8	1.5	1.2
10/5/2017	3.8						
6/5/2018		1.1					
6/6/2018			1.4				
6/7/2018				1		1.2	
6/8/2018	3.4						1.2
6/11/2018					2		
10/1/2018	3.8	1.1	1.4	1.1		1.5	1.2
10/2/2018					1.8		
3/28/2019		1.4	1.5				
3/29/2019	4.2			1.2			
4/1/2019					1.7	1.2	1.1
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019	4.8				1.6	1.1	1.1
3/18/2020	5.2		1.4				
3/19/2020		1.1		0.97 (J)	1.8	1.2	1.1
9/23/2020		0.99 (J)	1.2	0.88 (J)		1.1	1
9/24/2020					1.5		
9/25/2020	5.3						
3/1/2021					1.6		
3/2/2021	4.9						
3/3/2021		0.96 (J)	1.2	0.86 (J)		1.1	0.99 (J)
8/19/2021	5	1.1	1.3		1.6	1.1	
8/27/2021				0.99 (J)			1.1

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		1	1.3	1 (J)		1.1	1.1
2/10/2022	4.7						
2/11/2022					2.1		
8/30/2022		1.3		1.2			
8/31/2022	4.6		1.5		1.8	1.3	1.3
2/7/2023		1.3	1.5	1.1			
2/8/2023	4.9				1.6	1.2	1.1
8/15/2023	4.1	1.1	1.4	0.93 (J)		1.1	
8/16/2023					1.5		1.1
2/20/2024		1	1.2	0.96 (J)	1.4	1.1	1.1
2/23/2024	4.8						
8/20/2024	4.5	1	1.3	0.91 (J)	1.4	1.1	1

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	19	18	14	22			
6/9/2016					18	19	
8/1/2016	17	16	13	21			
8/2/2016					18	18	
8/30/2016							5.2
9/20/2016	18	18	13	22			
9/21/2016					18	19	
11/7/2016	17	16	14	24		20	
11/8/2016					18		
11/14/2016							6.4
1/18/2017	19	17	14		18	20	
1/19/2017				22			
2/21/2017	18	16				19	
2/22/2017				21	18		
2/23/2017			14				
2/24/2017							5.5
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			5.8
6/30/2017			14	21			
7/5/2017					18		
7/7/2017						20	
7/10/2017	19	15					
7/11/2017							5.8
10/5/2017					19		
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					5.9
4/2/2018							4.8
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
9/19/2018							4
10/2/2018	18.3	14	13.8	19.9			
10/3/2018					17.7	20.2	
3/27/2019							4.3
4/1/2019			14.2	19.7	17.2		
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					
9/26/2019			14.3	19.6	17.3	19.5	
10/8/2019							4.4
3/17/2020							4.1
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			
9/22/2020							4.2
9/24/2020	17.1	15.7	13.3	17	15.1	18	
3/1/2021							3.7
3/2/2021		13.2					
3/3/2021	16.6		13	4	14.6	18	
8/19/2021		13.5					3.5
8/20/2021	14.4		13.7	15.2	15.2	18.1	
2/8/2022				13	15.2	18.3	3.2
2/10/2022	15.4	14	13.1				

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	16.6	15					3.5
9/1/2022			13.4	10.4	10.4	16.5	
2/8/2023							3.5
2/9/2023	16.6	15.1	13.9	11.5	11.5	18.1	
8/15/2023							3.5
8/16/2023					10.5	16.8	
8/17/2023	15.7	14.4	12.9	11.7			
2/20/2024							3.2
2/21/2024			12.5	12.6	10.4	17.5	
2/22/2024	16	14.9					
8/20/2024							3.6
8/21/2024	15.8	15.2	12.2				
8/22/2024				13.9	10.9	18.2	

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		6.8	6.4				
6/7/2016	4.5			1.9	2.8		
7/27/2016	4.5	6.7	6.2	1.9			
7/28/2016					2.6		
9/16/2016	4.5		6.1				
9/19/2016		7		1.9	2.4		
11/2/2016				2.6			
11/3/2016	5.4	7.5	7.4		2.9		
1/11/2017	4.7	6.5	6.1				
1/13/2017				2.3	2.5		
3/1/2017		6.9	6				
3/2/2017	4.8						
3/6/2017				1.9	2.1		
4/26/2017		7	6.5	2	2.1		
5/2/2017	4.6						
6/28/2017		7	6.4				
6/29/2017	4.5			2.6	2.8		
10/3/2017					2.2		
10/4/2017	4.7		6.8	2.6			
10/5/2017		7					
10/11/2017						2.4	
10/12/2017							3.8
11/20/2017						1.8	4.4
1/10/2018							4.6
1/11/2018						1.6	
2/19/2018							4.6
2/20/2018						2	
4/3/2018						3.3	5.9
6/5/2018					1.7		
6/6/2018				2.7			
6/7/2018		6.8					
6/11/2018	4.9		6.8				
6/28/2018						2.1	5
8/7/2018						1.2	4.3
9/24/2018						1.3	4.9
9/25/2018	5.6	7.9	7.8	3.6	2.2		
3/26/2019							4.4
3/27/2019						1.4	
4/2/2019	4.8				2.5		
4/3/2019		6.9	6.3	3.1			
9/24/2019					3.1		
9/25/2019	5.7			2.8			
9/26/2019		7	7.1				
10/9/2019						2.1	5.1
3/24/2020	5	7	6.8	2.7	2.8		4.7
3/25/2020						1.9	
9/23/2020	6.6	7.2	7.2				
9/24/2020				2.7	2	2.7	5
3/3/2021	7.1	7	7.2	2.7			
3/4/2021					1.8	4.9	4.9
8/26/2021			7.3			7.2	
8/27/2021	8.5	7.4		2.8			

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					1.8		
9/3/2021							5.5
2/8/2022						7.4	6.2
2/9/2022	10.9	7.5	7	2.8	1.7		
8/30/2022	12	7.9	7		2.4		
8/31/2022				2.9		6.7	6.3
2/7/2023	11.4	7.4	6.4	2.9	2.4	5.6	
2/8/2023							6.9
8/15/2023	11.6	7.3	6.7	2.8	2.3	4.5	5.6
2/20/2024	12.2	7.6		2.9	2.3	4.6	5.7
2/23/2024			6.6				
8/20/2024	12.7	7.8		3	2.3		
8/21/2024			7.4			4	5.4

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	3.7	7.2	4.3		
6/9/2016					15
7/26/2016	3.6	6.6	4.4		
8/2/2016					14
8/31/2016				4	
9/14/2016	3.4	6.6	3.8		
9/21/2016					14
11/2/2016	4.5	7.6			
11/4/2016			4.8		
11/7/2016					14
11/28/2016				4.2	
1/12/2017		6.8	3.8		
1/13/2017	4.2				
1/19/2017					14
2/22/2017				3.7	13
3/6/2017	3.6				
3/7/2017		6.8	4.5		
5/1/2017	4.3	7.2			
5/2/2017			4.6		
5/8/2017				4.2	15
6/27/2017		7	4.3		
6/29/2017	4.2				
7/5/2017					14
7/17/2017				3.8	
10/3/2017		6.5	4.2		
10/5/2017	4.7				15
10/16/2017				4.2	
2/19/2018				4.3	
6/6/2018		4.7			
6/7/2018	4.4		4.5		
6/11/2018					13.6
8/6/2018				3.8	
9/26/2018	4.8	4.8	5.1		
10/2/2018					13.4
2/25/2019				4.1	
4/1/2019					13.1
4/3/2019	4.3	4	4.2		
6/12/2019				4.7	
9/24/2019		3.7	4.5		
9/25/2019	4.5				11.3
10/8/2019				5.1	
3/17/2020				4.8	
3/20/2020					11.3
3/24/2020		3.5	4.3		
3/25/2020	3.9				
9/22/2020	4.5	3.6	4.2	4.2	
9/24/2020					10.9
3/2/2021		3.2	4.3	4.1	
3/3/2021	4.1				6.7
8/20/2021				5.2	6.8
8/26/2021	4.4	3.4	4.3		
2/8/2022				5.7	5.5

Time Series

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		3.2	4.4		
2/11/2022	4.1				
8/30/2022		3.5	4.4	6.3	
8/31/2022	4.4				
9/1/2022					8.1
2/7/2023		3.3		6.1	
2/8/2023					10.4
2/9/2023	4.5		5		
8/2/2023					9.5
8/15/2023	4.4	3.1	4.1	5.6	
2/20/2024	4.6	3.2	4.8	6.1	
2/22/2024					10.5
8/20/2024	5.2	3.4	4.8		
8/22/2024					10.5

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0035	<0.005				<0.005
6/2/2016	<0.005				<0.005	0.0013 (J)	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0009 (J)	0.0004 (J)			0.0006 (J)	
3/3/2017				0.0005 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0016 (J)	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				0.0004 (J)			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.0021 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.00072 (J)	0.0028 (J)	<0.005			
9/25/2019	<0.005				<0.005	0.0014 (J)	0.0019 (J)
2/10/2020		0.00042 (J)	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.005	<0.005	<0.005
9/23/2020		0.00062 (J)	0.00058 (J)	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					<0.005		
8/30/2022		0.0011 (J)		<0.005			
8/31/2022	<0.005		<0.005		<0.005	<0.005	<0.005
2/7/2023		<0.005	0.0013 (J)	<0.005			
2/8/2023	<0.005				0.0021 (J)	<0.005	<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005		<0.005	
8/16/2023					<0.005		<0.005
2/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024	<0.005						
8/20/2024	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	
8/30/2016							<0.005
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	
11/8/2016					<0.005		
11/14/2016							0.0093 (J)
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		
2/23/2017			<0.005				
2/24/2017							<0.005
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
7/11/2017							<0.005
10/10/2017							<0.005
3/29/2018			<0.005	<0.005			
3/30/2018	<0.005	<0.005			<0.005	<0.005	
4/2/2018							<0.005
9/19/2018							<0.005
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	
4/1/2019			<0.005	<0.005	<0.005		
4/2/2019	<0.005	0.003 (J)				<0.005	
8/20/2019							<0.005
9/25/2019	0.00048 (J)	0.0012 (J)					
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			
8/27/2020							<0.005
9/22/2020							<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/1/2021							<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	
8/19/2021		0.0012 (J)					<0.005
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
9/1/2022			<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005
2/9/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	
8/15/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			
2/20/2024							<0.005
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					
8/20/2024							<0.005
8/21/2024	<0.005	<0.005	<0.005				
8/22/2024				<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		0.0012 (J)	<0.005				
6/7/2016	<0.005			<0.005	<0.005		
7/27/2016	0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)			
7/28/2016					<0.005		
9/16/2016	<0.005		<0.005				
9/19/2016		<0.005		<0.005	<0.005		
11/2/2016				<0.005			
11/3/2016	<0.005	<0.005	<0.005		<0.005		
1/11/2017	<0.005	<0.005	<0.005				
1/13/2017				<0.005	<0.005		
3/1/2017		0.0012 (J)	<0.005				
3/2/2017	0.001 (J)						
3/6/2017				<0.005	<0.005		
4/26/2017		0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.005		
5/2/2017	0.0007 (J)						
6/28/2017		0.0006 (J)	<0.005				
6/29/2017	0.0006 (J)			0.0005 (J)	<0.005		
10/11/2017						<0.005	
10/12/2017							<0.005
11/20/2017						<0.005	<0.005
1/10/2018							<0.005
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	<0.005				
3/29/2018				<0.005	<0.005		
4/3/2018						<0.005	<0.005
6/28/2018						<0.005	<0.005
8/7/2018						<0.005	<0.005
9/24/2018						<0.005	<0.005
3/5/2019	<0.005		<0.005	<0.005	<0.005		
3/6/2019		<0.005					
8/21/2019						<0.005	0.00053 (J)
10/9/2019						<0.005	0.0012 (J)
2/11/2020	0.00087 (J)	0.001 (J)	0.00088 (J)				
2/12/2020				0.00045 (J)	<0.005	<0.005	0.00065 (J)
3/24/2020	0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.005		0.00055 (J)
3/25/2020						<0.005	
9/23/2020	0.00098 (J)	0.00092 (J)	0.0012 (J)				
9/24/2020				0.00076 (J)	<0.005	<0.005	<0.005
2/9/2021		0.00083 (J)	0.0013 (J)	0.00056 (J)	<0.005		
2/10/2021						<0.005	<0.005
3/3/2021	0.00082 (J)	0.00087 (J)	0.001 (J)	<0.005			
3/4/2021					<0.005	<0.005	<0.005
8/26/2021			<0.005			<0.005	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					<0.005		
9/3/2021							<0.005
2/8/2022						<0.005	<0.005
2/9/2022	<0.005	<0.005	0.0014 (J)	<0.005	<0.005		
8/30/2022	<0.005	<0.005	0.0015 (J)		<0.005		
8/31/2022				<0.005		<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/7/2023	<0.005	<0.005	0.0016 (J)	<0.005	<0.005	<0.005	
2/8/2023							<0.005
8/15/2023	<0.005	<0.005	0.0013 (J)	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/23/2024			<0.005				
8/20/2024	<0.005	<0.005		<0.005	<0.005		
8/21/2024			<0.005			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				0.0029	
9/11/2007				0.0084	
3/20/2008				0.0027	
8/27/2008				0.0026	
3/3/2009				0.0022	
11/18/2009				0.0036	
3/3/2010				<0.005	
9/8/2010				<0.005	
3/10/2011				<0.005	
9/8/2011				<0.005	
3/5/2012				<0.005	
9/10/2012				<0.005	
2/6/2013				<0.005	
8/12/2013				<0.005	
2/5/2014				0.0059	
8/5/2014				<0.005	
2/4/2015				<0.005	
8/3/2015				0.0011 (J)	
2/16/2016				<0.005	
6/2/2016	<0.005	<0.005	<0.005		
6/9/2016					<0.005
7/26/2016	<0.005	<0.005	<0.005		
8/2/2016					0.0005 (J)
8/31/2016				<0.005	
9/14/2016	<0.005	<0.005	<0.005		
9/21/2016					<0.005
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				<0.005	
1/12/2017		<0.005	<0.005		
1/13/2017	<0.005				
1/19/2017					<0.005
2/22/2017				<0.005	<0.005
3/6/2017	<0.005				
3/7/2017		<0.005	<0.005		
5/1/2017	<0.005	0.0004 (J)			
5/2/2017			<0.005		
5/8/2017				<0.005	<0.005
6/27/2017		<0.005	<0.005		
6/29/2017	<0.005				
7/5/2017					<0.005
7/17/2017				<0.005	
10/16/2017				<0.005	
2/19/2018				<0.005	
3/29/2018	<0.005	<0.005	<0.005		<0.005
8/6/2018				<0.005	
2/25/2019				<0.005	
2/27/2019					<0.005
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
6/12/2019				<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
8/19/2019				<0.005	
9/25/2019					<0.005
10/8/2019				<0.005	
2/12/2020	<0.005	<0.005	0.00043 (J)		
2/13/2020					<0.005
3/17/2020				<0.005	
3/20/2020					<0.005
3/24/2020		<0.005	0.0014 (J)		
3/25/2020	0.00058 (J)				
8/26/2020				<0.005	
9/22/2020	<0.005	0.0011 (J)	<0.005	<0.005	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					<0.005
3/2/2021		<0.005	<0.005	<0.005	
3/3/2021	0.0013 (J)				<0.005
8/20/2021				<0.005	<0.005
8/26/2021	<0.005	<0.005	<0.005		
2/8/2022				<0.005	<0.005
2/10/2022		<0.005	<0.005		
2/11/2022	<0.005				
8/30/2022		<0.005	<0.005	<0.005	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		<0.005		<0.005	
2/8/2023					<0.005
2/9/2023	<0.005		0.0012 (J)		
8/2/2023					<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	
2/20/2024	<0.005	<0.005	<0.005	<0.005	
2/22/2024					<0.005
8/20/2024	<0.005	<0.005	<0.005		
8/22/2024					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	0.00082 (J)				<0.005
6/2/2016	<0.005				0.035	<0.005	
7/25/2016			0.0008 (J)		0.0312		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	0.0009 (J)				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					0.0275		
11/1/2016		<0.005			0.0255	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			0.0025 (J)	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005	0.0245		
2/21/2017					0.0272		
3/1/2017							<0.005
3/2/2017		<0.005	0.0022 (J)			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0244	<0.005	<0.005
4/27/2017		<0.005	0.0018 (J)				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	0.0023 (J)				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				0.0233		
3/27/2018	<0.005		<0.005		0.023		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
6/5/2018		<0.005					
6/6/2018			<0.005				
6/7/2018				<0.005		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					0.023		
10/1/2018	<0.005	<0.005	0.00059 (J)	<0.005		<0.005	<0.005
10/2/2018					0.022		
2/26/2019	<0.005				0.021		
2/27/2019		<0.005	0.00064 (J)	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					0.022	<0.005	<0.005
9/24/2019		<0.005	0.0013 (J)	<0.005			
9/25/2019	<0.005				0.016	<0.005	<0.005
2/10/2020		<0.005	0.0016 (J)				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				0.014	<0.005	
3/18/2020	<0.005		0.00087 (J)				
3/19/2020		<0.005		<0.005	0.014	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005		<0.005	<0.005
9/24/2020					0.0064		
9/25/2020	<0.005						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					0.0078		
2/12/2021		0.00086 (J)	0.0028 (J)				
3/1/2021					0.0061		
3/2/2021	<0.005						
3/3/2021		<0.005	0.003 (J)	<0.005		<0.005	<0.005
8/19/2021	<0.005	0.00055 (J)	0.0017 (J)		0.0052	<0.005	
8/27/2021				<0.005			<0.005
2/9/2022		0.00072 (J)	0.0023 (J)	<0.005		<0.005	<0.005
2/10/2022	<0.005						
2/11/2022					0.0038 (J)		
8/30/2022		<0.005		<0.005			
8/31/2022	<0.005		0.00085 (J)		0.004 (J)	<0.005	<0.005
2/7/2023		0.00097 (J)	0.0048 (J)	<0.005			
2/8/2023	<0.005				0.0031 (J)	<0.005	<0.005
8/15/2023	<0.005	<0.005	0.00072 (J)	<0.005		<0.005	
8/16/2023					0.0028 (J)		<0.005
2/20/2024		0.00055 (J)	0.0018 (J)	<0.005	0.0029 (J)	<0.005	<0.005
2/23/2024	<0.005						
8/20/2024	<0.005	<0.005	0.00033 (J)	<0.005	0.0023 (J)	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	
8/30/2016							0.0073 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	
11/8/2016					<0.005		
11/14/2016							0.0115
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			
2/21/2017	<0.005	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.005		
2/23/2017			0.002 (J)				
2/24/2017							0.0106
5/3/2017		0.002 (J)					
5/5/2017					<0.005	0.0012 (J)	
5/8/2017	<0.005		0.0029 (J)	0.0023 (J)			0.0099 (J)
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.005		
7/7/2017						0.0012 (J)	
7/10/2017	<0.005	0.002 (J)					
7/11/2017							0.0096 (J)
10/10/2017							0.0036 (J)
3/29/2018			0.0495 (D)	<0.005			
3/30/2018	<0.005	<0.005			<0.005	<0.005	
4/2/2018							<0.005
6/12/2018				0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	<0.005	0.0017 (J)	0.092				
9/19/2018							0.0036 (J)
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			
10/3/2018					<0.005	0.0013 (J)	
2/27/2019	<0.005	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	
4/1/2019			0.025	0.0023 (J)	<0.005		
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
8/20/2019							0.00092 (J)
9/25/2019	<0.005	0.0033 (J)					
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
10/8/2019							0.0014 (J)
2/13/2020	<0.005	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	
3/17/2020							0.0017 (J)
3/19/2020		0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020	<0.005		0.014	0.0022 (J)			
8/27/2020							0.0011 (J)
9/22/2020							0.00097 (J)
9/24/2020	<0.005	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	
2/10/2021	<0.005	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/1/2021							0.001 (J)
3/2/2021		0.0021 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	<0.005		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	
8/19/2021		0.0017 (J)					0.00099 (J)
8/20/2021	<0.005		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	
2/8/2022				0.0017 (J)	<0.005	0.00091 (J)	0.0013 (J)
2/10/2022	<0.005	0.0026 (J)	0.0051				
8/31/2022	<0.005	0.0026 (J)					0.00096 (J)
9/1/2022			0.0096	0.0015 (J)	<0.005	0.00071 (J)	
2/8/2023							0.0011 (J)
2/9/2023	<0.005	0.0017 (J)	0.0083	0.0015 (J)	<0.005	0.00074 (J)	
8/15/2023							0.00072 (J)
8/16/2023					<0.005	0.0008 (J)	
8/17/2023	<0.005	0.00088 (J)	0.0079	0.0014 (J)			
2/20/2024							0.0011 (J)
2/21/2024			0.016	0.0016 (J)	<0.005	0.00074 (J)	
2/22/2024	<0.005	0.0012 (J)					
8/20/2024							0.00034 (J)
8/21/2024	<0.005	0.00094 (J)	0.012				
8/22/2024				0.0014 (J)	<0.005	0.00085 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.005	0.00061 (J)				
6/7/2016	<0.005			<0.005	0.0056		
7/27/2016	<0.005	<0.005	0.0004 (J)	<0.005			
7/28/2016					0.0032 (J)		
9/16/2016	<0.005		0.0008 (J)				
9/19/2016		<0.005		<0.005	0.0047 (J)		
11/2/2016				<0.005			
11/3/2016	<0.005	<0.005	<0.005		0.013		
1/11/2017	<0.005	<0.005	<0.005				
1/13/2017				<0.005	0.011		
3/1/2017		<0.005	<0.005				
3/2/2017	<0.005						
3/6/2017				<0.005	0.011		
4/26/2017		<0.005	<0.005	<0.005	0.009 (J)		
5/2/2017	<0.005						
6/28/2017		<0.005	<0.005				
6/29/2017	<0.005			<0.005	0.0093 (J)		
10/11/2017						<0.005	
10/12/2017							<0.005
11/20/2017						<0.005	<0.005
1/10/2018							<0.005
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	<0.005				
3/29/2018				<0.005	<0.005		
4/3/2018						<0.005	<0.005
6/5/2018					0.0041 (J)		
6/6/2018				<0.005			
6/7/2018		<0.005					
6/11/2018	<0.005		<0.005				
6/28/2018						<0.005	<0.005
8/7/2018						<0.005	<0.005
9/24/2018						<0.005	<0.005
9/25/2018	<0.005	<0.005	<0.005	<0.005	0.0044 (J)		
3/5/2019	<0.005		<0.005	<0.005	0.0039 (J)		
3/6/2019		<0.005					
4/2/2019	<0.005				0.0039 (J)		
4/3/2019		<0.005	<0.005	<0.005			
8/21/2019						0.00034 (J)	<0.005
9/24/2019					0.0032 (J)		
9/25/2019	<0.005			<0.005			
9/26/2019		<0.005	<0.005				
10/9/2019						<0.005	<0.005
2/11/2020	<0.005	<0.005	<0.005				
2/12/2020				<0.005	0.0081	0.00034 (J)	<0.005
3/24/2020	<0.005	<0.005	<0.005	<0.005	0.0061		<0.005
3/25/2020						0.00034 (J)	
9/23/2020	<0.005	<0.005	<0.005				
9/24/2020				<0.005	0.0079	0.00053 (J)	<0.005
2/9/2021		<0.005	<0.005	<0.005	0.009		
2/10/2021						0.00098 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.005	<0.005	<0.005	<0.005			
3/4/2021					0.0065	0.00071 (J)	<0.005
8/26/2021			<0.005			0.0011 (J)	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					0.0068		
9/3/2021							<0.005
2/8/2022						0.0012 (J)	<0.005
2/9/2022	<0.005	<0.005	<0.005	<0.005	0.0078		
8/30/2022	<0.005	<0.005	<0.005		0.0066		
8/31/2022				<0.005		0.00085 (J)	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	0.014	0.00066 (J)	
2/8/2023							<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	0.011	0.00072 (J)	<0.005
2/20/2024	<0.005	<0.005		<0.005	0.02	0.00073 (J)	<0.005
2/23/2024			<0.005				
8/20/2024	<0.005	<0.005		<0.005	0.02		
8/21/2024			<0.005			0.00048 (J)	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				0.0067	
9/11/2007				<0.005	
3/20/2008				<0.005	
8/27/2008				<0.005	
3/3/2009				<0.005	
11/18/2009				<0.005	
3/3/2010				0.0027	
9/8/2010				0.007	
3/10/2011				<0.005	
9/8/2011				<0.005	
3/5/2012				0.0032	
9/10/2012				<0.005	
2/6/2013				<0.005	
8/12/2013				0.0045	
2/5/2014				<0.005	
8/5/2014				0.0027	
2/4/2015				0.0016	
8/3/2015				0.002	
2/16/2016				0.0027	
6/2/2016	0.00082 (J)	<0.005	<0.005		
6/9/2016					0.00052 (J)
7/26/2016	0.0012 (J)	<0.005	<0.005		
8/2/2016					0.0006 (J)
8/31/2016				0.0053 (J)	
9/14/2016	0.0006 (J)	<0.005	<0.005		
9/21/2016					0.0007 (J)
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				0.0036 (J)	
1/12/2017		<0.005	<0.005		
1/13/2017	0.0029 (J)				
1/19/2017					<0.005
2/22/2017				0.0049 (J)	<0.005
3/6/2017	0.0006 (J)				
3/7/2017		<0.005	<0.005		
5/1/2017	<0.005	<0.005			
5/2/2017			<0.005		
5/8/2017				0.0059 (J)	<0.005
6/27/2017		<0.005	<0.005		
6/29/2017	0.0005 (J)				
7/5/2017					0.0003 (J)
7/17/2017				0.0046 (J)	
10/16/2017				0.0034 (J)	
2/19/2018				<0.005	
3/29/2018	<0.005	<0.005	<0.005		<0.005
6/6/2018		<0.005			
6/7/2018	0.00058 (J)		<0.005		
6/11/2018					<0.005
8/6/2018				0.003 (J)	
9/26/2018	<0.005	<0.005	<0.005		
10/2/2018					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/25/2019				0.001 (J)	
2/27/2019					<0.005
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
4/3/2019	0.00083 (J)	<0.005	<0.005		
6/12/2019				0.003 (J)	
8/19/2019				0.0035 (J)	
9/24/2019		<0.005	<0.005		
9/25/2019	<0.005				<0.005
10/8/2019				0.0039 (J)	
2/12/2020	<0.005	0.00037 (J)	<0.005		
2/13/2020					<0.005
3/17/2020				0.003 (J)	
3/20/2020					<0.005
3/24/2020		0.00035 (J)	<0.005		
3/25/2020	0.00056 (J)				
8/26/2020				0.2 (O)	
9/22/2020	<0.005	<0.005	<0.005	0.16 (O)	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					0.00094 (J)
3/2/2021		<0.005	<0.005	0.21 (O)	
3/3/2021	<0.005				<0.005
8/20/2021				0.074 (O)	<0.005
8/26/2021	0.00042 (J)	<0.005	<0.005		
2/8/2022				0.072 (O)	<0.005
2/10/2022		<0.005	<0.005		
2/11/2022	<0.005				
8/30/2022		<0.005	<0.005	0.075 (O)	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		<0.005		0.034	
2/8/2023					0.0053
2/9/2023	<0.005		<0.005		
8/2/2023					0.0027 (J)
8/15/2023	<0.005	<0.005	<0.005	0.031	
2/20/2024	<0.005	<0.005	<0.005	0.023	
2/22/2024					0.0071
8/20/2024	<0.005	<0.005	<0.005		
8/22/2024					0.0061

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.321 (U)	0.42				0.896
6/2/2016	0.329 (U)				0.0652 (U)	2.51	
7/25/2016			1.83		3.01		2.28
7/26/2016	1.51	0.707 (U)				3.82	
9/13/2016		1.22	0.841				
9/14/2016				0.98 (U)			0.821 (U)
9/15/2016	1.04 (U)					4.24	
9/19/2016					0.871 (U)		
11/1/2016		0.805 (U)			0.307 (U)	3.92	0.585 (U)
11/2/2016	0.496 (U)						
11/4/2016			0.166 (U)	0.277 (U)			
12/15/2016				0.071 (U)			
1/10/2017	0.376 (U)						
1/11/2017		0.705 (U)				2.52	1.22
1/16/2017			0	0.44 (U)	0.284 (U)		
2/21/2017					0.503 (U)		
3/1/2017							0.877 (U)
3/2/2017		0.251 (U)	0.504 (U)			3.13	
3/3/2017				0.448 (U)			
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)				0.204 (U)	2.35	0.672 (U)
4/27/2017		1.08	0.593 (U)				
4/28/2017				0.548 (U)			
5/26/2017				0 (U)			
6/27/2017		1.02 (U)	0.657 (U)				
6/28/2017				0.608 (U)		2.6	1.07 (U)
6/30/2017	0.994				0.738 (U)		
3/27/2018	0.189 (U)		0.39 (U)		0.31 (U)		
3/28/2018				0.412 (U)		3	0.65 (U)
3/29/2018		0.503 (U)					
6/5/2018		0.771 (U)					
6/6/2018			2.8				
6/7/2018				0.73 (U)		2.79	
6/8/2018	0.218 (U)						1.89
6/11/2018					0.608 (U)		
10/1/2018	1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14	1.58
10/2/2018					0.97 (U)		
2/26/2019	0.202 (U)				0.524 (U)		
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)		3.79	3.67
3/28/2019		1.13 (U)	0.125 (U)				
3/29/2019	0 (U)			0.224 (U)			
4/1/2019					1.02 (U)	4.33	2.28
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)			
9/25/2019	0.707 (U)				1.02 (U)	4.2	1.6
2/10/2020		1.41	1.25 (U)				
2/11/2020				0.817 (U)		3.87	1.85
2/12/2020	1.07 (U)				0.301 (U)		
3/18/2020	0.207 (U)		0.458 (U)				
3/19/2020		1.1		0.715 (U)	1	3.96	2.2
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)		4.14	1.14 (U)
9/24/2020					0.684 (U)		
9/25/2020	0.603 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	0.353 (U)			1.04 (U)		3.65	2.46
2/11/2021					0.678 (U)		
2/12/2021		0.366 (U)	0.458 (U)				
3/1/2021					0.412 (U)		
3/2/2021	0.71 (U)						
3/3/2021		0.492 (U)	0.105 (U)	0.459 (U)		3.58	2.03
8/19/2021	0.786 (U)	1.17 (U)	0.0732 (U)		0.234 (U)	3.53	
8/27/2021				0.409 (U)			1.34
2/9/2022		1.19	0.422 (U)	0.894 (U)		3.28	1.91
2/10/2022	0 (U)				0.268 (U)		
8/30/2022		0.827		0.699 (U)			
8/31/2022	0.421 (U)		0.49 (U)		0.506 (U)	2.12	1.33
2/7/2023		0.92 (U)	0.661 (U)	0.536 (U)			
2/8/2023	0.83 (U)				0.417 (U)	2.74	1.18
8/15/2023	0.652 (U)	0.935 (U)	0.726 (U)	0.611 (U)		2.79	
8/16/2023					0.895 (U)		1.87
2/20/2024		0.274 (U)	0.798 (U)	0.784 (U)	0.375 (U)	2.56	1.09 (U)
2/23/2024	0.736 (U)						
8/20/2024	0.667 (U)	0.46 (U)	0.65 (U)	0.0912 (U)	0.748 (U)	3.09	0.921 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	
8/30/2016							1.09
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	
11/8/2016					0.245 (U)		
12/15/2016							1 (U)
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		
2/23/2017			4.73				
2/24/2017							0.504 (U)
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.455 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
7/11/2017							0.471 (U)
10/10/2017							0.649 (U)
3/29/2018			1.41	0.916 (U)			
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
4/2/2018							0.512 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
9/19/2018							0.789 (U)
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	
4/1/2019			5	0.777 (U)	0.162 (U)		
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
8/20/2019							2.44
9/25/2019	1.01 (U)	1.18 (U)					
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
10/8/2019							1.72
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	
3/17/2020							1.22 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			
8/27/2020							1.26 (U)
9/22/2020							1.06 (U)
9/24/2020	<1.53	<1.9	3.42	1.49	<2.15	<1.86	
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	
3/1/2021							1.2
3/2/2021		0.394 (U)					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	
8/19/2021		0.531 (U)					1.07 (U)
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.4 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					0.714 (U)
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	
2/8/2023							0.375 (U)
2/9/2023	1.05 (U)	0.46 (U)	2.56	0.348 (U)	0.164 (U)	0.733 (U)	
8/15/2023							0.947 (U)
8/16/2023					0.62 (U)	0.837 (U)	
8/17/2023	0.635 (U)	0.734 (U)	3.48	0.509 (U)			
2/20/2024							0.939 (U)
2/21/2024			3.26	0.669 (U)	0.447 (U)	0.781 (U)	
2/22/2024	0.745 (U)	0.303 (U)					
8/20/2024							0.873 (U)
8/21/2024	0.442 (U)	0.78 (U)	2.97				
8/22/2024				0.428 (U)	0.762 (U)	0.58 (U)	

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		0.0804 (U)	0.301 (U)				
6/7/2016	0.158 (U)			0.0191 (U)	0.347		
7/27/2016	0.0354 (U)	0.206 (U)	0.196 (U)	0.541 (U)			
7/28/2016					0.815 (U)		
9/16/2016	1.04		0.915 (U)				
9/19/2016		1.58		0.826 (U)	0.862 (U)		
11/2/2016				0.791 (U)			
11/3/2016	0.314 (U)	0.342 (U)	0.928 (U)		0.797 (U)		
1/11/2017	0.34 (U)	0.365 (U)	0.502 (U)				
1/13/2017				0.296 (U)	0.72 (U)		
3/1/2017		0.395 (U)	0.202 (U)				
3/2/2017	0.746 (U)						
3/6/2017				0.518 (U)	0.518 (U)		
4/26/2017		0.507 (U)	0.264 (U)	0.282 (U)	1.13 (U)		
5/2/2017	0.111 (U)						
6/28/2017		0.892	0.636 (U)				
6/29/2017	0.576 (U)			1.12	0.841 (U)		
10/11/2017						0.586 (U)	
10/12/2017							1.49
11/20/2017						0.816 (U)	0.918 (U)
1/10/2018							1.05
1/11/2018						0.841 (U)	
2/19/2018							2.05
2/20/2018						1.58	
3/28/2018	0.438 (U)	0.92 (U)	0.56 (U)				
3/29/2018				1.73	1.91		
4/3/2018						0.385 (U)	0.68 (U)
6/5/2018					1.39		
6/6/2018				0.694 (U)			
6/7/2018		0.668 (U)					
6/11/2018	0.901 (U)		0.649 (U)				
6/28/2018						0.283 (U)	1.28
8/7/2018						0.332 (U)	1.16
9/24/2018						0.767 (U)	0.965 (U)
9/25/2018	0.68 (U)	0.141 (U)	0.574 (U)	0.772 (U)	1.62		
3/5/2019	0.272 (U)		0.474 (U)	0.84 (U)	0.985 (U)		
3/6/2019		0.714 (U)					
4/2/2019	0.847 (U)				1.42		
4/3/2019		0.385 (U)	0.429 (U)	1.01			
8/21/2019						1.01 (U)	1.24 (U)
9/24/2019					1.35		
9/25/2019	0.412 (U)			1.18 (U)			
9/26/2019		0.386 (U)	0.222 (U)				
10/8/2019						1.02 (U)	0.866 (U)
2/11/2020	0.461 (U)	1.48	0.597 (U)				
2/12/2020				1.11 (U)	1.61	0.45 (U)	1.83
3/24/2020	0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)		1.27 (U)
3/25/2020						0.377 (U)	
9/23/2020	0.466 (U)	0.887 (U)	0.43 (U)				
9/24/2020				0.611 (U)	1.8	0.568 (U)	0.634 (U)
2/9/2021	0.529 (U)	0.314 (U)	0.259 (U)	0.284 (U)	1.24		
2/10/2021						0.518 (U)	0.783 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	0.59 (U)	0.565 (U)	0.352 (U)	0.133 (U)	1.2		
3/4/2021						0.636 (U)	0.818 (U)
8/26/2021			0.686 (U)			0.674 (U)	
8/27/2021	0.9 (U)	0.761 (U)		0.779 (U)			
9/1/2021					1.86		
9/3/2021							0.971 (U)
2/8/2022						0.834	0.534 (U)
2/9/2022	0.133 (U)	0.571 (U)	0.0618 (U)	0.504 (U)	1.94		
8/30/2022	1.08	1.01	0.611 (U)		1.27		
8/31/2022				0.184 (U)		0.937	0.513 (U)
2/7/2023	0.367 (U)	0.485 (U)	0.656 (U)	0.794 (U)	1.53	1.41	
2/8/2023							1.56
8/15/2023	0.0388 (U)	0.655 (U)	0.347 (U)	0.165 (U)	1.68	0.608 (U)	0.325 (U)
2/20/2024	0.0387 (U)	0.068 (U)		0.165 (U)	1.19	0.701 (U)	0.437 (U)
2/23/2024			0.318 (U)				
8/20/2024	0.554 (U)	0.223 (U)		0.371 (U)	0.545 (U)		
8/21/2024			0.684 (U)			1.52	0.265 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	0.721	5.11	0.614		
6/9/2016					0.523
7/26/2016	1.26	6.92	1.47		
8/2/2016					1.25
8/31/2016				1.2	
9/14/2016	0.901 (U)	3.96	1.27		
9/21/2016					1.21 (U)
11/2/2016	1.09 (U)	4.53			
11/4/2016			0.434 (U)		
11/7/2016					1.16
11/28/2016				0.264 (U)	
1/12/2017		4.43	0.202 (U)		
1/13/2017	1.19				
1/19/2017					0.933 (U)
2/22/2017				1.06 (U)	1.45 (U)
3/6/2017	0.669 (U)				
3/7/2017		4.8	0.0674 (U)		
5/1/2017	0.803 (U)	4.16			
5/2/2017			0.444 (U)		
5/8/2017				0.187 (U)	0.21 (U)
6/27/2017		2.8	0.77 (U)		
6/29/2017	1.35				
7/5/2017					0.62 (U)
7/17/2017				1.42	
10/16/2017				1.17	
2/19/2018				1.58 (D)	
3/29/2018	0.703 (U)	3.42	0.648 (U)		1.37
6/6/2018		3.99			
6/7/2018	0.628 (U)		0.745 (U)		
6/11/2018					1.27 (U)
8/6/2018				0.196 (U)	
9/26/2018	0.756 (U)	2.73	0.377 (U)		
10/2/2018					0.442 (U)
2/27/2019					0.902 (U)
3/4/2019	1.21 (U)	4.43	1 (U)		
4/1/2019					0.584 (U)
4/3/2019	1.07 (U)	4.79	0.43 (U)		
8/19/2019				1.39	
9/24/2019		4.06	0.699 (U)		
9/25/2019	1.86				1.03 (U)
10/8/2019				1.32 (U)	
2/12/2020	1.25	4.02	0.913 (U)		
2/13/2020					0.806 (U)
3/17/2020				1 (U)	
3/20/2020					1.42
3/24/2020		3.52			
3/25/2020	0.766 (U)				
8/26/2020				1.75	
9/22/2020	0.795 (U)	2.98	0.428 (U)	0.688 (U)	
9/24/2020					<1.88
2/8/2021		2.89	0.613 (U)		
2/9/2021	0.626 (U)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/12/2021					0.826
3/2/2021		1.67	0.579 (U)	0.948 (U)	
3/3/2021	1				0.955
8/20/2021				0.528 (U)	0.314 (U)
8/26/2021	1.17 (U)	4.68	0.798 (U)		
2/8/2022				0.462 (U)	0.104 (U)
2/10/2022		3.33	0.375 (U)		
2/11/2022	0.996				
8/30/2022		5.34	0.72 (U)	1.52	
8/31/2022	0.962				
9/1/2022					0.445 (U)
2/7/2023		3.99		1	
2/8/2023					0.963 (U)
2/9/2023	1.12		0.0815 (U)		
8/2/2023					1.23
8/15/2023	1.14	3.44	0.846 (U)	0.833 (U)	
2/20/2024	1.1 (U)	2.8	0.63 (U)	0.978 (U)	
2/22/2024					0.871 (U)
8/20/2024	1.18	3.02	0.695 (U)		
8/22/2024					0.459 (U)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.12 (J)	<0.1				0.15 (J)
6/2/2016	<0.1				<0.1	0.62	
7/25/2016			0.06 (J)		0.06 (J)		0.14 (J)
7/26/2016	0.02 (J)	0.08 (J)				0.49	
9/13/2016		0.11 (J)	<0.1				
9/14/2016				0.08 (J)			0.18 (J)
9/15/2016	<0.1					0.54	
9/19/2016					<0.1		
11/1/2016		<0.3			<0.1	0.68	<0.1
11/2/2016	<0.1						
11/4/2016			<0.1	<0.3			
12/15/2016				0.06 (J)			
1/10/2017	<0.1						
1/11/2017		0.05 (J)				0.49	0.09 (J)
1/16/2017			<0.1	0.1 (J)	<0.1		
2/21/2017					<0.1		
3/1/2017							<0.1
3/2/2017		<0.3	<0.1			0.48	
3/3/2017				<0.3			
3/8/2017	<0.1						
4/26/2017	<0.1				<0.1	0.48	0.08 (J)
4/27/2017		0.04 (J)	0.01 (J)				
4/28/2017				0.06 (J)			
5/26/2017				0.09 (J)			
6/27/2017		<0.3	<0.1				
6/28/2017				0.11 (J)		0.47	0.12 (J)
6/30/2017	<0.1				<0.1		
10/3/2017		<0.3	<0.1	<0.3			
10/4/2017					<0.1	<0.47	<0.1
10/5/2017	<0.1						
3/27/2018	<0.1		<0.1		<0.1		
3/28/2018				0.31		0.56	<0.1
3/29/2018		<0.3					
6/5/2018		0.055 (J)					
6/6/2018			<0.1				
6/7/2018				0.11 (J)		0.48	
6/8/2018	<0.1						0.2 (J)
6/11/2018					<0.1		
10/1/2018	<0.1	<0.3	<0.1	<0.3		0.44	<0.1
10/2/2018					<0.1		
2/26/2019	<0.1				<0.1		
2/27/2019		0.052 (J)	<0.1	0.12 (J)		0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.1				
3/29/2019	<0.1			0.13 (J)			
4/1/2019					<0.1	0.45	0.1 (J)
9/24/2019		0.063 (J)	<0.1	0.081 (J)			
9/25/2019	<0.1				<0.1	0.46	0.1 (J)
2/10/2020		0.061 (J)	<0.1				
2/11/2020				0.075 (J)			0.094 (J)
2/12/2020	<0.1				<0.1	0.4	
3/18/2020	<0.1		<0.1				
3/19/2020		0.064 (J)		0.093 (J)	<0.1	0.51	0.11 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		0.058 (J)	<0.1	0.08 (J)		0.47	0.098 (J)
9/24/2020					<0.1		
9/25/2020	<0.1						
2/10/2021	<0.1			0.094 (J)		0.43	<0.1
2/11/2021					<0.1		
2/12/2021		0.068 (J)	<0.1				
3/1/2021					<0.1		
3/2/2021	<0.1						
3/3/2021		0.078 (J)	<0.1	0.085 (J)		0.44	0.1
8/19/2021	<0.1	0.074 (J)	<0.1		<0.1	0.47	
8/27/2021				0.12			0.12
2/9/2022		0.057 (J)	<0.1	0.094 (J)		0.43	0.097 (J)
2/10/2022	<0.1						
2/11/2022					<0.1		
8/30/2022		0.093 (J)		0.12			
8/31/2022	0.053 (J)		0.065 (J)		0.06 (J)	0.42	0.13
2/7/2023		0.093 (J)	0.071 (J)	0.12			
2/8/2023	0.059 (J)				0.064 (J)	0.56	0.16
8/15/2023	<0.1	0.057 (J)	<0.1	0.081 (J)		0.42	
8/16/2023					<0.1		0.11
2/20/2024		0.086 (J)	<0.1	0.1	0.051 (J)	0.45	0.12
2/23/2024	<0.1						
8/20/2024	<0.1	0.066 (J)	<0.1	0.085 (J)	<0.1	0.45	0.12

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	
8/30/2016							0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.3	0.32			
9/21/2016					0.08 (J)	0.25 (J)	
11/7/2016	<0.1 (*)	0.44	<0.3 (*)	<0.1 (*)		0.27 (J)	
11/8/2016					0.24 (J)		
11/14/2016							0.18 (J)
1/18/2017	0.11 (J)	<0.1 (*)	<0.3 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.3 (*)		
2/23/2017			<0.3 (*)				
2/24/2017							0.05 (J)
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.03 (J)
6/30/2017			<0.3 (*)	0.2 (J)			
7/5/2017					0.11 (J)		
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
7/11/2017							0.07 (J)
10/5/2017					<0.3 (*)		
10/6/2017				<0.1 (*)			
10/9/2017			<0.3 (*)			<0.3 (*)	
10/10/2017	<0.1	<0.1					<0.1
3/29/2018			<0.3	0.49			
3/30/2018	<0.1	0.35			<0.3	<0.3	
4/2/2018							<0.1
6/12/2018				0.037 (J)	<0.3	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.3				
9/19/2018							<0.1
10/2/2018	<0.1	<0.1	<0.3	<0.1			
10/3/2018					<0.3	0.31	
2/27/2019	<0.1	<0.1	<0.3	0.14 (J)	0.14 (J)	0.22 (J)	
3/27/2019							0.081 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
8/20/2019							<0.1
9/25/2019	0.064 (J)	<0.1					
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
10/8/2019							0.034 (J)
2/13/2020	<0.1	<0.1	<0.3	0.11 (J)	0.14 (J)	0.18 (J)	
3/17/2020							<0.1
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.3	0.097 (J)			
8/27/2020							<0.1
9/22/2020							<0.1
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	
3/1/2021							<0.1
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	
8/19/2021		<0.1					<0.1
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	
2/8/2022				0.087 (J)	0.063 (J)	0.14	<0.1
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					0.065 (J)
9/1/2022			0.1	0.12	0.11	0.16	
2/8/2023							0.077 (J)
2/9/2023	0.088 (J)	0.07 (J)	0.1	0.12	0.14	0.18	
8/15/2023							<0.1
8/16/2023					0.078 (J)	0.18	
8/17/2023	0.073 (J)	0.06 (J)	0.081 (J)	0.098 (J)			
2/20/2024							0.073 (J)
2/21/2024			0.082 (J)	0.11	0.096 (J)	0.15	
2/22/2024	0.057 (J)	<0.1					
8/20/2024							<0.1
8/21/2024	0.098 (J)	<0.1	0.12				
8/22/2024				0.075 (J)	0.08 (J)	0.14	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.1	<0.1				
6/7/2016	<0.1			<0.1	<0.3		
7/27/2016	<0.1	<0.1	<0.1	<0.1			
7/28/2016					0.02 (J)		
9/16/2016	<0.1		<0.1				
9/19/2016		<0.1		<0.1	0.02 (J)		
11/2/2016				<0.1			
11/3/2016	<0.1	<0.1	<0.1		<0.3		
1/11/2017	<0.1	<0.1	<0.1				
1/13/2017				<0.1	<0.3		
3/1/2017		<0.1	<0.1				
3/2/2017	<0.1						
3/6/2017				<0.1	<0.3		
4/26/2017		<0.1	<0.1	<0.1	0.04 (J)		
5/2/2017	<0.1						
6/28/2017		<0.1	<0.1				
6/29/2017	<0.1			<0.1	<0.3		
10/3/2017					<0.3		
10/4/2017	<0.1		<0.1	<0.1			
10/5/2017		<0.1					
10/11/2017						<0.1	
10/12/2017							<0.1
11/20/2017						<0.1	<0.1
1/10/2018							<0.1
1/11/2018						<0.1	
2/19/2018							<0.1
2/20/2018						0.23	
3/28/2018	<0.1	<0.1	<0.1				
3/29/2018				<0.1	<0.3		
4/3/2018						<0.1	<0.1
6/5/2018					0.13 (J)		
6/6/2018				<0.1			
6/7/2018		<0.1					
6/11/2018	<0.1		<0.1				
6/28/2018						<0.1	<0.1
8/7/2018						0.048 (J)	<0.1
9/24/2018						<0.1	<0.1
9/25/2018	<0.1	<0.1	<0.1	<0.1	0 (J)		
3/5/2019	<0.1		<0.1	<0.1	0.32		
3/6/2019		<0.1					
3/26/2019							<0.1
3/27/2019						<0.1	
4/2/2019	<0.1				0.12 (J)		
4/3/2019		<0.1	<0.1	<0.1			
8/21/2019						<0.1	<0.1
9/24/2019					0.15 (J)		
9/25/2019	<0.1			<0.1			
9/26/2019		<0.1	<0.1				
10/9/2019						<0.1	<0.1
2/11/2020	<0.1	<0.1	<0.1				
2/12/2020				<0.1	0.1 (J)	<0.1	<0.1
3/24/2020	<0.1	<0.1	<0.1	<0.1	0.081 (J)		<0.1

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/25/2020						<0.1	
9/23/2020	<0.1	<0.1	<0.1				
9/24/2020				<0.1	0.079 (J)	<0.1	<0.1
2/9/2021		<0.1	<0.1	<0.1	0.092 (J)		
2/10/2021						<0.1	<0.1
3/3/2021	<0.1	<0.1	<0.1	<0.1			
3/4/2021					0.091 (J)	<0.1	<0.1
8/26/2021			<0.1			0.063 (J)	
8/27/2021	<0.1	<0.1		<0.1			
9/1/2021					0.11		
9/3/2021							<0.1
2/8/2022						0.052 (J)	<0.1
2/9/2022	<0.1	<0.1	<0.1	<0.1	0.1		
8/30/2022	<0.1	<0.1	<0.1		0.1		
8/31/2022				<0.1		0.065 (J)	0.05 (J)
2/7/2023	<0.1	<0.1	<0.1	<0.1	0.1	0.076 (J)	
2/8/2023							<0.1
8/15/2023	<0.1	<0.1	<0.1	<0.1	0.061 (J)	<0.1	<0.1
2/20/2024	<0.1	<0.1		<0.1	0.083 (J)	0.063 (J)	<0.1
2/23/2024			<0.1				
8/20/2024	<0.1	<0.1		<0.1	0.062 (J)		
8/21/2024			0.051 (J)			0.083 (J)	0.06 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	<0.1	0.11 (J)	<0.1		
6/9/2016					0.085 (J)
7/26/2016	<0.1	0.05 (J)	<0.1		
8/2/2016					0.09 (J)
8/31/2016				0.14 (J)	
9/14/2016	<0.1	0.04 (J)	<0.1		
9/21/2016					0.09 (J)
11/2/2016	<0.1	<0.1			
11/4/2016			<0.1		
11/7/2016					<0.3 (*)
11/28/2016				0.12 (J)	
1/12/2017		0.04 (J)	<0.1		
1/13/2017	<0.1				
1/19/2017					<0.3 (*)
2/22/2017				0.09 (J)	<0.3 (*)
3/6/2017	<0.1				
3/7/2017		<0.1	<0.1		
5/1/2017	<0.1	<0.1			
5/2/2017			<0.1		
5/8/2017				0.05 (J)	0.06 (J)
6/27/2017		<0.1	<0.1		
6/29/2017	<0.1				
7/5/2017					0.08 (J)
7/17/2017				0.14 (J)	
10/3/2017		<0.1	<0.1		
10/5/2017	<0.1				<0.3 (*)
10/16/2017				0.12 (J)	
2/19/2018				0.17	
3/29/2018	<0.1	<0.1	<0.1		<0.3
6/6/2018		0.15 (J)			
6/7/2018	<0.1		<0.1		
6/11/2018					<0.3
8/6/2018				0.087 (J)	
9/26/2018	<0.1	<0.1	<0.1		
10/2/2018					<0.3
2/25/2019				0.14 (J)	
2/27/2019					0.15 (J)
3/4/2019	<0.1	0.19 (J)	<0.1		
4/1/2019					0.059 (J)
4/3/2019	<0.1	0.047 (J)	<0.1		
6/12/2019				0.12 (J)	
8/19/2019				<0.3	
9/24/2019		0.05 (J)	<0.1		
9/25/2019	<0.1				0.054 (J)
10/8/2019				0.052 (J)	
2/12/2020	<0.1	<0.1	<0.1		
2/13/2020					0.053 (J)
3/17/2020				0.053 (J)	
3/20/2020					0.057 (J)
3/24/2020		<0.1	<0.1		
3/25/2020	<0.1				
8/26/2020				0.068 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
9/22/2020	<0.1	0.056 (J)	<0.1	0.058 (J)	
9/24/2020					0.06 (J)
2/8/2021		0.055 (J)	<0.1		
2/9/2021	<0.1				
2/12/2021					0.17
3/2/2021		<0.1	<0.1	0.073 (J)	
3/3/2021	<0.1				0.056 (J)
8/20/2021				0.06 (J)	0.069 (J)
8/26/2021	<0.1	0.061 (J)	<0.1		
2/8/2022				0.064 (J)	0.053 (J)
2/10/2022		0.055 (J)	<0.1		
2/11/2022	<0.1				
8/30/2022		0.085 (J)	<0.1	0.086 (J)	
8/31/2022	0.061 (J)				
9/1/2022					0.091 (J)
2/7/2023		0.082 (J)		0.095 (J)	
2/8/2023					0.092 (J)
2/9/2023	0.067 (J)		<0.1		
8/2/2023					0.054 (J)
8/15/2023	<0.1	<0.1	<0.1	0.065 (J)	
2/20/2024	0.059 (J)	0.076 (J)	<0.1	0.094 (J)	
2/22/2024					0.075 (J)
8/20/2024	<0.1	0.058 (J)	<0.1		
8/22/2024					0.071 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.00056 (J)	<0.001				<0.001
6/2/2016	<0.001				<0.001	0.00056 (J)	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					0.0002 (J)	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		0.0001 (J)	<0.001			0.0002 (J)	
3/3/2017				<0.001			
3/8/2017	0.0001 (J)						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		4.9E-05 (J)	<0.001				
2/11/2020				<0.001			<0.001
2/12/2020	<0.001				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		0.00012 (J)		<0.001	<0.001	0.00017 (J)	<0.001
9/23/2020		<0.001	0.00021 (J)	0.0011 (J)		<0.001	0.00015 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	4.8E-05 (J)			0.00015 (J)		<0.001	<0.001
2/11/2021					4.6E-05 (J)		
2/12/2021		4.4E-05 (J)	0.00038 (J)				
3/1/2021					<0.001		
3/2/2021	<0.001						
3/3/2021		5.6E-05 (J)	<0.001	<0.001		<0.001	<0.001
8/19/2021	<0.001	<0.001	<0.001		<0.001	<0.001	
8/27/2021				<0.001			<0.001
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		
8/30/2022		<0.001		<0.001			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/31/2022	<0.001		<0.001		<0.001	<0.001	<0.001
2/7/2023		<0.001	<0.001	<0.001			
2/8/2023	<0.001				<0.001	<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001		<0.001	
8/16/2023					<0.001		<0.001
2/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024	<0.001						
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.001	<0.001	<0.001	<0.001 (*)			
6/9/2016					<0.001	<0.001	
8/1/2016	<0.001	<0.001	<0.001	<0.001			
8/2/2016					<0.001	<0.001	
8/30/2016							<0.001
9/20/2016	<0.001	<0.001	<0.001	0.0002 (J)			
9/21/2016					<0.001	<0.001	
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	
11/8/2016					<0.001		
11/14/2016							<0.001
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		
2/23/2017			<0.001				
2/24/2017							<0.001
5/3/2017		<0.001 (*)					
5/5/2017					<0.001	<0.001 (*)	
5/8/2017	<0.001		<0.001	<0.001			<0.001
6/30/2017			<0.001	<0.001			
7/5/2017					<0.001		
7/7/2017						7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)					
7/11/2017							<0.001
10/10/2017							<0.001
3/29/2018			<0.001	<0.001			
3/30/2018	<0.001	<0.001			<0.001	<0.001	
4/2/2018							<0.001
9/19/2018							<0.001
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/20/2019							<0.001
2/13/2020	<0.001	<0.001	<0.001	6.2E-05 (J)	<0.001	5.4E-05 (J)	
3/19/2020		0.0001 (J)			<0.001	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.001	8.5E-05 (J)			
8/27/2020							<0.001
9/22/2020							<0.001
9/24/2020	<0.001	6.4E-05 (J)	<0.001	0.00037 (J)	<0.001	6.3E-05 (J)	
2/10/2021	5.1E-05 (J)	5E-05 (J)	<0.001	0.00072 (J)			
2/11/2021					<0.001		
2/12/2021						5.2E-05 (J)	
3/1/2021							<0.001
3/2/2021		5.6E-05 (J)					
3/3/2021	<0.001		<0.001	<0.001	<0.001	<0.001	
8/19/2021		<0.001					<0.001
8/20/2021	<0.001		<0.001	0.00096 (J)	<0.001	<0.001	
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					<0.001
9/1/2022			<0.001	<0.001	<0.001	<0.001	
2/8/2023							<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/15/2023							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/16/2023					<0.001	<0.001	
8/17/2023	<0.001	<0.001	<0.001	<0.001			
2/20/2024							<0.001
2/21/2024			<0.001	<0.001	<0.001	<0.001	
2/22/2024	<0.001	<0.001					
8/20/2024							<0.001
8/21/2024	<0.001	<0.001	<0.001				
8/22/2024				<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.001	<0.001				
6/7/2016	<0.001			<0.001	<0.001		
7/27/2016	<0.001	<0.001	<0.001	<0.001			
7/28/2016					<0.001		
9/16/2016	<0.001		<0.001				
9/19/2016		<0.001		<0.001	<0.001		
11/2/2016				0.0013 (J)			
11/3/2016	<0.001	<0.001	<0.001		<0.001		
1/11/2017	<0.001	<0.001	<0.001				
1/13/2017				<0.001	<0.001		
3/1/2017		<0.001	<0.001				
3/2/2017	8E-05 (J)						
3/6/2017				<0.001	<0.001		
4/26/2017		<0.001	<0.001	<0.001	<0.001		
5/2/2017	<0.001						
6/28/2017		<0.001	0.0001 (J)				
6/29/2017	8E-05 (J)			<0.001	<0.001		
10/11/2017						0.0001 (J)	
10/12/2017							9E-05 (J)
11/20/2017						<0.001	<0.001
1/10/2018							<0.001
1/11/2018						0.0002 (J)	
2/19/2018							<0.001
2/20/2018						<0.001	
3/28/2018	<0.001	<0.001	<0.001				
3/29/2018				<0.001	<0.001		
4/3/2018						<0.001	<0.001
6/28/2018						<0.001	<0.001
8/7/2018						<0.001	<0.001
9/24/2018						<0.001	<0.001
3/5/2019	<0.001		<0.001	<0.001	<0.001		
3/6/2019		<0.001					
4/2/2019	<0.001				<0.001		
4/3/2019		<0.001	<0.001	<0.001			
8/21/2019						<0.001	<0.001
9/24/2019					<0.001		
9/25/2019	<0.001			<0.001			
9/26/2019		<0.001	<0.001				
10/9/2019						<0.001	<0.001
2/11/2020	<0.001	<0.001	<0.001				
2/12/2020				<0.001	<0.001	<0.001	<0.001
3/24/2020	6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.001		<0.001
3/25/2020						5.1E-05 (J)	
9/23/2020	4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)				
9/24/2020				9.2E-05 (J)	4.6E-05 (J)	<0.001	3.8E-05 (J)
2/9/2021		5E-05 (J)	9.4E-05 (J)	6.3E-05 (J)	<0.001		
2/10/2021						<0.001	<0.001
3/3/2021	<0.001	<0.001	7.6E-05 (J)	4.5E-05 (J)			
3/4/2021					<0.001	<0.001	<0.001
8/26/2021			<0.001			<0.001	
8/27/2021	<0.001	<0.001		<0.001			
9/1/2021					<0.001		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/3/2021							<0.001
2/8/2022						<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/30/2022	<0.001	<0.001	<0.001		<0.001		
8/31/2022				<0.001		<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/8/2023							<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/23/2024			<0.001				
8/20/2024	<0.001	<0.001		<0.001	<0.001		
8/21/2024			<0.001			<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.001	
9/11/2007				<0.001	
3/20/2008				<0.001	
8/27/2008				<0.001	
3/3/2009				<0.001	
11/18/2009				<0.001	
3/3/2010				<0.001	
9/8/2010				<0.001	
3/10/2011				<0.001	
9/8/2011				<0.001	
3/5/2012				<0.001	
9/10/2012				<0.001	
2/6/2013				<0.001	
8/12/2013				<0.001	
2/5/2014				<0.001	
8/5/2014				<0.001	
2/4/2015				<0.001	
8/3/2015				<0.001	
2/16/2016				<0.001	
6/2/2016	<0.001	<0.001	<0.001		
6/9/2016					<0.001
7/26/2016	<0.001	<0.001	<0.001		
8/2/2016					<0.001
8/31/2016				<0.001	
9/14/2016	<0.001	<0.001	<0.001		
9/21/2016					<0.001
11/2/2016	<0.001	<0.001			
11/4/2016			<0.001		
11/7/2016					<0.001
11/28/2016				<0.001	
1/12/2017		<0.001	<0.001		
1/13/2017	<0.001				
1/19/2017					<0.001
2/22/2017				<0.001	<0.001
3/6/2017	<0.001				
3/7/2017		0.0001 (J)	7E-05 (J)		
5/1/2017	<0.001	<0.001			
5/2/2017			<0.001		
5/8/2017				<0.001	<0.001
6/27/2017		<0.001	<0.001		
6/29/2017	<0.001				
7/5/2017					<0.001
7/17/2017				<0.001	
10/16/2017				<0.001	
2/19/2018				<0.001	
3/29/2018	<0.001	<0.001	<0.001		<0.001
8/6/2018				<0.001	
2/25/2019				<0.001	
2/27/2019					<0.001
3/4/2019	<0.001	<0.001	<0.001		
4/3/2019	<0.001	<0.001	<0.001		
6/12/2019				<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lead (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
8/19/2019				<0.001	
9/24/2019		<0.001	9E-05 (J)		
9/25/2019	<0.001				
10/8/2019				<0.001	
2/12/2020	<0.001	<0.001	<0.001		
2/13/2020					<0.001
3/17/2020				<0.001	
3/20/2020					<0.001
3/24/2020		5.4E-05 (J)	6.8E-05 (J)		
3/25/2020	<0.001				
8/26/2020				<0.001	
9/22/2020	<0.001	4.5E-05 (J)	4.2E-05 (J)	0.0001 (J)	
9/24/2020					9.5E-05 (J)
2/8/2021		0.00013 (J)	3.7E-05 (J)		
2/9/2021	<0.001				
2/12/2021					6.6E-05 (J)
3/2/2021		5.1E-05 (J)	9.2E-05 (J)	<0.001	
3/3/2021	<0.001				0.00016 (J)
8/20/2021				<0.001	<0.001
8/26/2021	<0.001	<0.001	<0.001		
2/8/2022				<0.001	<0.001
2/10/2022		<0.001	<0.001		
2/11/2022	<0.001				
8/30/2022		<0.001	<0.001	<0.001	
8/31/2022	<0.001				
9/1/2022					<0.001
2/7/2023		<0.001		<0.001	
2/8/2023					<0.001
2/9/2023	<0.001		<0.001		
8/2/2023					<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	
2/20/2024	<0.001	<0.001	<0.001	<0.001	
2/22/2024					<0.001
8/20/2024	<0.001	<0.001	<0.001		
8/22/2024					<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.015	<0.03				0.01
6/2/2016	<0.03				<0.03	0.018	
7/25/2016			0.002 (J)		<0.03		0.0132 (J)
7/26/2016	<0.03	0.0135 (J)				0.0221 (J)	
9/13/2016		0.0112 (J)	<0.03				
9/14/2016				0.004 (J)			0.012 (J)
9/15/2016	<0.03					0.0197 (J)	
9/19/2016					<0.03		
11/1/2016		0.0163 (J)			<0.03	0.0194 (J)	0.0115 (J)
11/2/2016	<0.03						
11/4/2016			<0.03	<0.03			
12/15/2016				0.0026 (J)			
1/10/2017	<0.03						
1/11/2017		0.0166 (J)				0.0177 (J)	0.0085 (J)
1/16/2017			0.0023 (J)	0.0023 (J)	<0.03		
2/21/2017					<0.03		
3/1/2017							0.0114 (J)
3/2/2017		0.0159 (J)	0.0025 (J)			0.0185 (J)	
3/3/2017				0.0013 (J)			
3/8/2017	<0.03						
4/26/2017	<0.03				<0.03	0.0183 (J)	0.0092 (J)
4/27/2017		0.0137 (J)	0.0027 (J)				
4/28/2017				0.0031 (J)			
5/26/2017				0.0038 (J)			
6/27/2017		0.0094 (J)	0.0024 (J)				
6/28/2017				0.0026 (J)		0.0173 (J)	0.0085 (J)
6/30/2017	<0.03				<0.03		
3/27/2018	<0.03		0.0023 (J)		0.0011 (J)		
3/28/2018				0.0025 (J)		0.02 (J)	0.013 (J)
3/29/2018		0.0078 (J)					
6/5/2018		0.0079 (J)					
6/6/2018			0.0024 (J)				
6/7/2018				0.0017 (J)		0.02 (J)	
6/8/2018	<0.03						0.012 (J)
6/11/2018					0.0012 (J)		
10/1/2018	<0.03	0.0053 (J)	0.0023 (J)	<0.03		0.02 (J)	0.011 (J)
10/2/2018					<0.03		
2/26/2019	<0.03				0.0011 (J)		
2/27/2019		0.0093 (J)	0.0023 (J)	0.0011 (J)		0.021 (J)	0.014 (J)
3/28/2019		0.013 (J)	0.0022 (J)				
3/29/2019	<0.03			0.0016 (J)			
4/1/2019					0.001 (J)	0.021 (J)	0.013 (J)
9/24/2019		0.0046 (J)	0.0023 (J)	0.0011 (J)			
9/25/2019	<0.03				0.0011 (J)	0.02 (J)	0.01 (J)
2/10/2020		0.011 (J)	0.0023 (J)				
2/11/2020				0.0012 (J)			0.013 (J)
2/12/2020	<0.03				0.0013 (J)	0.019 (J)	
3/18/2020	<0.03		0.0024 (J)				
3/19/2020		0.013 (J)		0.0022 (J)	0.0012 (J)	0.023 (J)	0.014 (J)
9/23/2020		0.014 (J)	0.0024 (J)	0.0016 (J)		0.023 (J)	0.013 (J)
9/24/2020					0.0011 (J)		
9/25/2020	<0.03						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.03			0.0039 (J)		0.023 (J)	0.015 (J)
2/11/2021					0.0012 (J)		
2/12/2021		0.01 (J)	0.0025 (J)				
3/1/2021					0.0011 (J)		
3/2/2021	<0.03						
3/3/2021		0.012 (J)	0.0025 (J)	0.0016 (J)		0.024 (J)	0.017 (J)
8/19/2021	<0.03	0.013 (J)	0.0023 (J)		0.0012 (J)	0.023 (J)	
8/27/2021				0.0058 (J)			0.026 (J)
2/9/2022		0.013 (J)	0.0027 (J)	0.006 (J)		0.026 (J)	0.021 (J)
2/10/2022	<0.03						
2/11/2022					0.0014 (J)		
8/30/2022		0.013 (J)		0.0044 (J)			
8/31/2022	<0.03		<0.03		0.0012 (J)	0.021 (J)	0.022 (J)
2/7/2023		0.006 (J)	0.0029 (J)	0.0047 (J)			
2/8/2023	<0.03				0.0011 (J)	0.023 (J)	0.018 (J)
8/15/2023	<0.03	0.0079 (J)	0.002 (J)	<0.03		0.023 (J)	
8/16/2023					<0.03		0.025 (J)
2/20/2024		0.0071 (J)	<0.03	0.0021 (J)	<0.03	0.021 (J)	0.02 (J)
2/23/2024	<0.03						
8/20/2024	<0.03	0.0037 (J)	0.0023 (J)	<0.03	<0.03	0.021 (J)	0.017 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	
8/30/2016							0.0061 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	
11/8/2016					0.0072 (J)		
11/14/2016							0.0064 (J)
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		
2/23/2017			0.0099 (J)				
2/24/2017							0.0049 (J)
5/3/2017		<0.03					
5/5/2017					0.007 (J)	<0.03	
5/8/2017	0.007 (J)		0.0086 (J)	<0.03			0.0053 (J)
6/30/2017			0.0108 (J)	<0.03			
7/5/2017					0.0072 (J)		
7/7/2017						<0.03	
7/10/2017	0.0064 (J)	<0.03					
7/11/2017							0.0051 (J)
10/10/2017							0.0043 (J)
3/29/2018			0.011 (J)	<0.03			
3/30/2018	0.0068 (J)	<0.03			0.007 (J)	<0.03	
4/2/2018							0.0045 (J)
6/12/2018				<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	<0.03	0.014 (J)				
9/19/2018							0.0043 (J)
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			
10/3/2018					0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	<0.03	0.0096 (J)	<0.03	0.0063 (J)	<0.03	
4/1/2019			0.0082 (J)	<0.03	0.0065 (J)		
4/2/2019	0.0064 (J)	<0.03				<0.03	
8/20/2019							0.0036 (J)
9/25/2019	0.0073 (J)	<0.03					
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
10/8/2019							0.0036 (J)
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	
3/17/2020							0.0046 (J)
3/19/2020		<0.03			0.007 (J)	<0.03	
3/20/2020	0.0072 (J)		0.0091 (J)	<0.03			
8/27/2020							0.0039 (J)
9/22/2020							0.0036 (J)
9/24/2020	0.0074 (J)	<0.03	0.0075 (J)	<0.03	0.0065 (J)	<0.03	
2/10/2021	0.0067 (J)	<0.03	0.0067 (J)	0.00081 (J)			
2/11/2021					0.007 (J)		
2/12/2021						0.0053 (J)	
3/1/2021							0.0037 (J)
3/2/2021		<0.03					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	0.0077 (J)		0.0066 (J)	<0.03	0.0063 (J)	<0.03	
8/19/2021		<0.03					0.0038 (J)
8/20/2021	0.0079 (J)		0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	
2/8/2022				<0.03	0.0076 (J)	<0.03	0.0039 (J)
2/10/2022	0.0086 (J)	<0.03	0.0072 (J)				
8/31/2022	0.0074 (J)	<0.03					0.0037 (J)
9/1/2022			0.0069 (J)	<0.03	0.0066 (J)	<0.03	
2/8/2023							0.0037 (J)
2/9/2023	0.0075 (J)	<0.03	0.0069 (J)	<0.03	0.0066 (J)	<0.03	
8/15/2023							0.004 (J)
8/16/2023					0.0058 (J)	<0.03	
8/17/2023	0.0077 (J)	<0.03	0.0067 (J)	<0.03			
2/20/2024							0.0036 (J)
2/21/2024			0.007 (J)	<0.03	0.0056 (J)	<0.03	
2/22/2024	0.0078 (J)	<0.03					
8/20/2024							0.0036 (J)
8/21/2024	0.0072 (J)	<0.03	0.0068 (J)				
8/22/2024				<0.03	0.006 (J)	<0.03	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		0.0088	0.015				
6/7/2016	<0.03			<0.03	0.0055		
7/27/2016	<0.03	0.0087 (J)	0.0049 (J)	<0.03			
7/28/2016					0.0045 (J)		
9/16/2016	<0.03		0.0031 (J)				
9/19/2016		0.0043 (J)		<0.03	0.0054 (J)		
11/2/2016				<0.03			
11/3/2016	<0.03	<0.03	0.0021 (J)		<0.03		
1/11/2017	0.0035 (J)	0.0052 (J)	0.0025 (J)				
1/13/2017				<0.03	0.0062 (J)		
3/1/2017		0.0053 (J)	0.0029 (J)				
3/2/2017	<0.03						
3/6/2017				<0.03	0.0059 (J)		
4/26/2017		0.0041 (J)	0.0019 (J)	<0.03	0.0054 (J)		
5/2/2017	<0.03						
6/28/2017		0.0039 (J)	0.0016 (J)				
6/29/2017	<0.03			<0.03	0.0047 (J)		
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	
3/28/2018	<0.03	0.0041 (J)	0.0024 (J)				
3/29/2018				<0.03	0.0062 (J)		
4/3/2018						0.0022 (J)	<0.03
6/5/2018					0.0061 (J)		
6/6/2018				<0.03			
6/7/2018		0.0032 (J)					
6/11/2018	<0.03		0.0014 (J)				
6/28/2018						0.0026 (J)	<0.03
8/7/2018						0.0024 (J)	<0.03
9/24/2018						0.0022 (J)	<0.03
9/25/2018	<0.03	0.0036 (J)	0.0016 (J)	<0.03	0.0062 (J)		
3/5/2019	<0.03		0.0031 (J)	<0.03	0.0053 (J)		
3/6/2019		0.0033 (J)					
4/2/2019	<0.03				0.0051 (J)		
4/3/2019		0.0035 (J)	0.0028 (J)	<0.03			
8/21/2019						0.0035 (J)	<0.03
9/24/2019					0.0068 (J)		
9/25/2019	<0.03			<0.03			
9/26/2019		0.0032 (J)	0.0029 (J)				
10/9/2019						0.0036 (J)	<0.03
2/11/2020	<0.03	0.0033 (J)	0.005 (J)				
2/12/2020				<0.03	0.0065 (J)	0.0041 (J)	<0.03
3/24/2020	0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)		<0.03
3/25/2020						0.0049 (J)	
9/23/2020	<0.03	0.003 (J)	0.0022 (J)				
9/24/2020				<0.03	0.0069 (J)	0.0054 (J)	<0.03
2/9/2021		0.0031 (J)	0.0019 (J)	<0.03	0.006 (J)		
2/10/2021						0.0071 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.03	0.0034 (J)	0.0021 (J)	<0.03			
3/4/2021					0.0062 (J)	0.0084 (J)	<0.03
8/26/2021			0.0019 (J)			0.0082 (J)	
8/27/2021	<0.03	0.0032 (J)		<0.03			
9/1/2021					0.0057 (J)		
9/3/2021							<0.03
2/8/2022						0.008 (J)	0.00076 (J)
2/9/2022	<0.03	0.0032 (J)	0.0015 (J)	0.00082 (J)	0.0061 (J)		
8/30/2022	<0.03	0.0036 (J)	0.0014 (J)		0.0079 (J)		
8/31/2022				<0.03		0.0065 (J)	<0.03
2/7/2023	<0.03	0.003 (J)	0.0012 (J)	<0.03	0.0059 (J)	0.0065 (J)	
2/8/2023							0.00074 (J)
8/15/2023	<0.03	<0.03	0.00077 (J)	<0.03	0.0062 (J)	0.0064 (J)	<0.03
2/20/2024	<0.03	0.0038 (J)		<0.03	0.0062 (J)	0.0059 (J)	<0.03
2/23/2024			<0.03				
8/20/2024	<0.03	0.0032 (J)		<0.03	0.0057 (J)		
8/21/2024			0.0032 (J)			0.0055 (J)	<0.03

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	0.013	0.0049 (J)	<0.03		
6/9/2016					0.0075
7/26/2016	0.0123 (J)	0.0063 (J)	0.0027 (J)		
8/2/2016					0.0078 (J)
8/31/2016				<0.03	
9/14/2016	0.0137 (J)	0.0058 (J)	0.0029 (J)		
9/21/2016					0.0074 (J)
11/2/2016	0.0136 (J)	0.0053 (J)			
11/4/2016			<0.03		
11/7/2016					0.0057 (J)
11/28/2016				<0.03	
1/12/2017		0.0054 (J)	0.0032 (J)		
1/13/2017	0.0121 (J)				
1/19/2017					0.0055 (J)
2/22/2017				<0.03	0.0063 (J)
3/6/2017	0.0143 (J)				
3/7/2017		0.0056 (J)	0.0035 (J)		
5/1/2017	0.0132 (J)	0.0031 (J)			
5/2/2017			0.0031 (J)		
5/8/2017				0.0014 (J)	0.0066 (J)
6/27/2017		0.0018 (J)	0.0029 (J)		
6/29/2017	0.0145 (J)				
7/5/2017					0.0058 (J)
7/17/2017				<0.03	
10/16/2017				0.0016 (J)	
2/19/2018				<0.03	
3/29/2018	0.014 (J)	0.0058 (J)	0.0034 (J)		0.0049 (J)
6/6/2018		0.0068 (J)			
6/7/2018	0.013 (J)		0.0032 (J)		
6/11/2018					0.0064 (J)
8/6/2018				<0.03	
9/26/2018	0.014 (J)	0.0065 (J)	0.0032 (J)		
10/2/2018					0.006 (J)
2/27/2019					0.0053 (J)
3/4/2019	0.015 (J)	0.0065 (J)	0.0032 (J)		
4/1/2019					0.0052 (J)
4/3/2019	0.014 (J)	0.007 (J)	0.0035 (J)		
8/19/2019				0.0019 (J)	
9/24/2019		0.0065 (J)	0.0031 (J)		
9/25/2019	0.014 (J)				0.0057 (J)
10/8/2019				0.0015 (J)	
2/12/2020	0.011 (J)	0.0066 (J)	0.0032 (J)		
2/13/2020					0.0057 (J)
3/17/2020				0.0017 (J)	
3/20/2020					0.0051 (J)
3/24/2020		0.0064 (J)	0.0033 (J)		
3/25/2020	0.014 (J)				
8/26/2020				0.0032 (J)	
9/22/2020	0.013 (J)	0.0066 (J)	0.0034 (J)	0.0029 (J)	
9/24/2020					0.005 (J)
2/8/2021		0.0063 (J)	0.0032 (J)		
2/9/2021	0.011 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/12/2021					<0.03
3/2/2021		0.0018 (J)	0.0031 (J)	0.0033 (J)	
3/3/2021	0.012 (J)				0.0054 (J)
8/20/2021				0.0028 (J)	0.0056 (J)
8/26/2021	0.0094 (J)	0.0075 (J)	0.0032 (J)		
2/8/2022				0.0031 (J)	0.0064 (J)
2/10/2022		0.0076 (J)	0.0036 (J)		
2/11/2022	0.012 (J)				
8/30/2022		0.0068 (J)	0.0035 (J)	0.0025 (J)	
8/31/2022	0.013 (J)				
9/1/2022					0.0051 (J)
2/7/2023		0.0059 (J)		0.0022 (J)	
2/8/2023					0.012 (J)
2/9/2023	0.014 (J)		0.0036 (J)		
8/2/2023					0.013 (J)
8/15/2023	0.0083 (J)	0.0059 (J)	<0.03	<0.03	
2/20/2024	0.014 (J)	0.0056 (J)	0.0033 (J)	0.0024 (J)	
2/22/2024					0.0051 (J)
8/20/2024	0.011 (J)	0.0024 (J)	0.0031 (J)		
8/22/2024					0.0044 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0002	<0.0002				<0.0002
6/2/2016	<0.0002				<0.0002	<0.0002	
7/25/2016			<0.0002		<0.0002		<0.0002
7/26/2016	<0.0002	<0.0002				<0.0002	
9/13/2016		<0.0002	<0.0002				
9/14/2016				<0.0002			<0.0002
9/15/2016	<0.0002					<0.0002	
9/19/2016					<0.0002		
11/1/2016		<0.0002			<0.0002	<0.0002	<0.0002
11/2/2016	<0.0002						
11/4/2016			<0.0002	<0.0002			
12/15/2016				<0.0002			
1/10/2017	<0.0002						
1/11/2017		<0.0002				<0.0002	<0.0002
1/16/2017			<0.0002	<0.0002	<0.0002		
2/21/2017					<0.0002		
3/1/2017							<0.0002
3/2/2017		<0.0002	<0.0002			<0.0002	
3/3/2017				<0.0002			
3/8/2017	<0.0002						
4/26/2017	<0.0002				<0.0002	<0.0002	<0.0002
4/27/2017		<0.0002	<0.0002				
4/28/2017				<0.0002			
5/26/2017				<0.0002			
6/27/2017		<0.0002	<0.0002				
6/28/2017				<0.0002		<0.0002	<0.0002
6/30/2017	<0.0002				<0.0002		
3/27/2018	<0.0002		<0.0002		<0.0002		
3/28/2018				<0.0002		<0.0002	<0.0002
3/29/2018		<0.0002					
2/26/2019	6.1E-05 (J)				6.8E-05 (J)		
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0002		6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0002				
3/29/2019	<0.0002			<0.0002			
4/1/2019					8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)
9/24/2019		<0.0002	<0.0002	<0.0002			
9/25/2019	<0.0002				<0.0002	<0.0002	<0.0002
2/10/2020		<0.0002	<0.0002				
2/11/2020				<0.0002			<0.0002
2/12/2020	<0.0002				<0.0002	<0.0002	
2/10/2021	<0.0002			<0.0002		<0.0002	<0.0002
2/11/2021					<0.0002		
2/12/2021		<0.0002	<0.0002				
2/9/2022		<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
2/10/2022	<0.0002						
2/11/2022					<0.0002		
8/30/2022		<0.0002		<0.0002			
8/31/2022	<0.0002		<0.0002		<0.0002	<0.0002	<0.0002
2/7/2023		<0.0002	<0.0002	<0.0002			
2/8/2023	<0.0002				<0.0002	<0.0002	<0.0002
8/15/2023	0.00016 (J)	0.00015 (J)	0.00015 (J)	0.00015 (J)		0.00014 (J)	
8/16/2023					<0.0002		<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/20/2024		<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/23/2024	<0.0002						
8/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	
8/30/2016							<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	
11/8/2016					<0.0002		
11/14/2016							<0.0002
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		
2/23/2017			<0.0002				
2/24/2017							<0.0002
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
7/11/2017							<0.0002
10/10/2017							<0.0002
3/29/2018			<0.0002	<0.0002			
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
4/2/2018							<0.0002
9/19/2018							5.3E-05 (J)
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
8/20/2019							<0.0002
9/25/2019	<0.0002	<0.0002					
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/27/2020							<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	
8/19/2021							<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					<0.0002
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	
2/8/2023							<0.0002
2/9/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/15/2023							0.00014 (J)
8/16/2023					<0.0002	<0.0002	
8/17/2023	<0.0002	<0.0002	<0.0002	<0.0002			
2/20/2024							<0.0002
2/21/2024			<0.0002	<0.0002	<0.0002	<0.0002	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/22/2024	<0.0002	<0.0002					
8/20/2024							<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002				
8/22/2024				<0.0002	<0.0002	<0.0002	

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.0002	<0.0002				
6/7/2016	9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)		
7/27/2016	<0.0002	<0.0002	<0.0002	<0.0002			
7/28/2016					<0.0002		
9/16/2016	<0.0002		<0.0002				
9/19/2016		<0.0002		<0.0002	<0.0002		
11/2/2016				<0.0002			
11/3/2016	<0.0002	<0.0002	<0.0002		<0.0002		
1/11/2017	<0.0002	<0.0002	<0.0002				
1/13/2017				<0.0002	<0.0002		
3/1/2017		<0.0002	<0.0002				
3/2/2017	<0.0002						
3/6/2017				<0.0002	<0.0002		
4/26/2017		<0.0002	<0.0002	<0.0002	<0.0002		
5/2/2017	<0.0002						
6/28/2017		<0.0002	<0.0002				
6/29/2017	<0.0002			<0.0002	<0.0002		
10/11/2017						<0.0002	
10/12/2017							<0.0002
11/20/2017						7E-05 (J)	8E-05 (J)
1/10/2018							<0.0002
1/11/2018						<0.0002	
2/19/2018							<0.0002
2/20/2018						<0.0002	
3/28/2018	<0.0002	<0.0002	<0.0002				
3/29/2018				<0.0002	<0.0002		
4/3/2018						<0.0002	<0.0002
6/28/2018						<0.0002	3.6E-05 (J)
8/7/2018						<0.0002	<0.0002
9/24/2018						<0.0002	<0.0002
9/25/2018	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
3/5/2019	<0.0002		<0.0002	<0.0002	<0.0002		
3/6/2019		<0.0002					
8/21/2019						<0.0002	<0.0002
2/11/2020	<0.0002	<0.0002	<0.0002				
2/12/2020				<0.0002	<0.0002	<0.0002	<0.0002
2/9/2021		<0.0002	<0.0002	<0.0002	<0.0002		
2/10/2021						<0.0002	<0.0002
3/3/2021	<0.0002	<0.0002	<0.0002	<0.0002			
3/4/2021					<0.0002	<0.0002	<0.0002
8/26/2021			<0.0002			<0.0002	
8/27/2021	<0.0002	<0.0002		<0.0002			
9/1/2021					<0.0002		
9/3/2021							0.00012 (J)
2/8/2022						<0.0002	0.00013 (J)
2/9/2022	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002		
8/30/2022	<0.0002	<0.0002	<0.0002		<0.0002		
8/31/2022				<0.0002		<0.0002	0.00064
2/7/2023	0.00018 (J)	0.00013 (J)	0.00017 (J)	0.00015 (J)	0.00017 (J)	<0.0002	
2/8/2023							<0.0002
8/15/2023	<0.0002	0.00014 (J)	0.00015 (J)	<0.0002	<0.0002	<0.0002	0.00037
2/20/2024	<0.0002	<0.0002		<0.0002	<0.0002	<0.0002	0.00032

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/23/2024			<0.0002				
8/20/2024	<0.0002	<0.0002		<0.0002	<0.0002		
8/21/2024			<0.0002			<0.0002	0.00033

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.0002	
9/11/2007				<0.0002	
3/20/2008				<0.0002	
8/27/2008				<0.0002	
3/3/2009				<0.0002	
11/18/2009				<0.0002	
3/3/2010				<0.0002	
9/8/2010				<0.0002	
3/10/2011				<0.0002	
9/8/2011				<0.0002	
3/5/2012				<0.0002	
9/10/2012				<0.0002	
2/6/2013				<0.0002	
8/12/2013				<0.0002	
2/5/2014				<0.0002	
8/5/2014				<0.0002	
2/4/2015				<0.0002	
8/3/2015				<0.0002	
2/16/2016				1.36E-05 (J)	
6/2/2016	<0.0002	<0.0002	<0.0002		
6/9/2016					<0.0002 (*)
7/26/2016	<0.0002	<0.0002	<0.0002		
8/2/2016					<0.0002
8/31/2016				<0.0002	
9/14/2016	<0.0002	<0.0002	<0.0002		
9/21/2016					<0.0002
11/2/2016	<0.0002	<0.0002			
11/4/2016			<0.0002		
11/7/2016					<0.0002
11/28/2016				<0.0002	
1/12/2017		<0.0002	<0.0002		
1/13/2017	<0.0002				
1/19/2017					<0.0002
2/22/2017				<0.0002	<0.0002
3/6/2017	<0.0002				
3/7/2017		<0.0002	<0.0002		
5/1/2017	<0.0002	<0.0002			
5/2/2017			<0.0002		
5/8/2017				<0.0002	<0.0002
6/27/2017		<0.0002	<0.0002		
6/29/2017	<0.0002				
7/5/2017					<0.0002
7/17/2017				<0.0002	
10/16/2017				<0.0002	
2/19/2018				<0.0002	
3/29/2018	<0.0002	<0.0002	<0.0002		<0.0002
8/6/2018				<0.0002	
9/26/2018	<0.0002	<0.0002	<0.0002		
2/25/2019				7.4E-05 (J)	
2/27/2019					4.7E-05 (J)
3/4/2019	<0.0002	<0.0002	<0.0002		
4/1/2019					3.9E-05 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Mercury (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/12/2019				<0.0002	
8/19/2019				<0.0002	
9/25/2019					<0.0002
10/8/2019				<0.0002	
2/12/2020	<0.0002	<0.0002	<0.0002		
2/13/2020					<0.0002
5/6/2020				<0.0002	
8/26/2020				<0.0002	
9/22/2020				<0.0002	
2/8/2021		<0.0002	<0.0002		
2/9/2021	<0.0002				
2/12/2021					<0.0002
3/2/2021		<0.0002	<0.0002	<0.0002	
3/3/2021	<0.0002				
8/20/2021				<0.0002	
8/26/2021	<0.0002	<0.0002	<0.0002		
2/8/2022				<0.0002	<0.0002
2/10/2022		<0.0002	<0.0002		
2/11/2022	<0.0002				
8/30/2022		<0.0002	<0.0002	<0.0002	
8/31/2022	<0.0002				
9/1/2022					<0.0002
2/7/2023		<0.0002		0.00013 (J)	
2/8/2023					<0.0002
2/9/2023	<0.0002		<0.0002		
8/2/2023					<0.0002
8/15/2023	0.00013 (J)	0.00015 (J)	0.00014 (J)	<0.0002	
2/20/2024	<0.0002	<0.0002	<0.0002	<0.0002	
2/22/2024					<0.0002
8/20/2024	<0.0002	<0.0002	<0.0002		
8/22/2024					<0.0002

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.014 (J)	0.012 (J)				0.0055 (J)
6/2/2016	<0.01				<0.01	0.0093 (J)	
7/25/2016			0.0098 (J)		<0.01		0.0037 (J)
7/26/2016	<0.01	0.0132				0.0113	
9/13/2016		0.0127	0.01 (J)				
9/14/2016				0.0039 (J)			0.0034 (J)
9/15/2016	<0.01					0.0112	
9/19/2016					<0.01		
11/1/2016		0.0092 (J)			<0.01	0.0099 (J)	0.0025 (J)
11/2/2016	<0.01						
11/4/2016			0.01	0.0077 (J)			
12/15/2016				0.0066 (J)			
1/10/2017	<0.01						
1/11/2017		0.0093 (J)				0.0093 (J)	0.0033 (J)
1/16/2017			0.0086 (J)	0.0056 (J)	<0.01		
2/21/2017					<0.01		
3/1/2017							0.0044 (J)
3/2/2017		0.0099 (J)	0.01			0.0103	
3/3/2017				0.0049 (J)			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	0.01	0.0075 (J)
4/27/2017		0.0103	0.0101				
4/28/2017				0.004 (J)			
5/26/2017				0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)				
6/28/2017				0.0036 (J)		0.0102	0.008 (J)
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		0.0074 (J)		<0.01		
3/28/2018				0.0038 (J)		0.011	0.0025 (J)
3/29/2018		0.0076 (J)					
6/5/2018		0.0092 (J)					
6/6/2018			0.0073 (J)				
6/7/2018				0.004 (J)		0.011	
6/8/2018	<0.01						0.0041 (J)
6/11/2018					<0.01		
10/1/2018	<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012	0.0037 (J)
10/2/2018					<0.01		
2/26/2019	<0.01				<0.01		
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)				
3/29/2019	<0.01			0.0041 (J)			
4/1/2019					<0.01	0.012	0.0021 (J)
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)			
9/25/2019	<0.01				<0.01	0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)				
2/11/2020				0.0057 (J)			0.003 (J)
2/12/2020	<0.01				<0.01	0.013	
3/18/2020	<0.01		0.0056 (J)				
3/19/2020		0.0088 (J)		0.0046 (J)	<0.01	0.013	0.0043 (J)
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)		0.012	0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/10/2021	<0.01			0.0041 (J)		0.014	0.0038 (J)
2/11/2021					<0.01		
2/12/2021		0.008 (J)	0.0056 (J)				
3/1/2021					<0.01		
3/2/2021	<0.01						
3/3/2021		0.0088 (J)	0.0049 (J)	0.0074 (J)		0.013	0.0036 (J)
8/19/2021	<0.01	0.0083 (J)	0.005 (J)		<0.01	0.013	
8/27/2021				0.0048 (J)			0.0099 (J)
2/9/2022		0.0093 (J)	0.0055 (J)	0.0057 (J)		0.013	0.0087 (J)
2/10/2022	<0.01						
2/11/2022					<0.01		
8/30/2022		0.0094 (J)		0.0068 (J)			
8/31/2022	<0.01		0.0055 (J)		<0.01	0.011	0.0068 (J)
2/7/2023		<0.01	<0.01	0.0061 (J)			
2/8/2023	<0.01				<0.01	0.012	0.0065 (J)
8/15/2023	<0.01	0.0098 (J)	0.0047 (J)	0.0071 (J)		0.012	
8/16/2023					<0.01		0.012
2/20/2024		0.0098 (J)	0.03	0.0076 (J)	<0.01	0.013	0.0089 (J)
2/23/2024	<0.01						
8/20/2024	<0.01	0.01	0.0039 (J)	0.011	<0.01	0.012	0.0058 (J)

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	
8/30/2016							<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	
11/8/2016					<0.01		
11/14/2016							<0.01
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		
2/23/2017			<0.01				
2/24/2017							<0.01
5/3/2017		<0.01					
5/5/2017					0.0014 (J)	0.0007 (J)	
5/8/2017	<0.01		0.0011 (J)	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					0.0014 (J)		
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
7/11/2017							<0.01
10/10/2017							<0.01
3/29/2018			<0.01	<0.01			
3/30/2018	<0.01	<0.01			<0.01	<0.01	
4/2/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
9/19/2018							<0.01
10/2/2018	<0.01	<0.01	<0.01	<0.01			
10/3/2018					<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01	
4/1/2019			<0.01	<0.01	<0.01		
4/2/2019	<0.01	<0.01				<0.01	
8/20/2019							<0.01
9/25/2019	<0.01	<0.01					
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
10/8/2019							<0.01
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	
3/17/2020							<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			
8/27/2020							<0.01
9/22/2020							<0.01
9/24/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	
2/10/2021	<0.01	<0.01	0.0016 (J)	<0.01			
2/11/2021					0.0012 (J)		
2/12/2021						<0.01	
3/1/2021							<0.01
3/2/2021		<0.01					

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
3/3/2021	<0.01		0.0017 (J)	<0.01	0.0011 (J)	0.00083 (J)	
8/19/2021		<0.01					<0.01
8/20/2021	<0.01		0.0042 (J)	<0.01	0.001 (J)	<0.01	
2/8/2022				<0.01	0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	<0.01	<0.01	0.0018 (J)				
8/31/2022	<0.01	<0.01					<0.01
9/1/2022			0.0016 (J)	<0.01	0.001 (J)	<0.01	
2/8/2023							<0.01
2/9/2023	<0.01	<0.01	0.0019 (J)	<0.01	0.0014 (J)	0.00083 (J)	
8/15/2023							<0.01
8/16/2023					0.0016 (J)	0.00077 (J)	
8/17/2023	<0.01	<0.01	0.0016 (J)	<0.01			
2/20/2024							<0.01
2/21/2024			0.0015 (J)	<0.01	0.0013 (J)	0.00068 (J)	
2/22/2024	<0.01	<0.01					
8/20/2024							<0.01
8/21/2024	<0.01	<0.01	0.0016 (J)				
8/22/2024				<0.01	0.0015 (J)	0.00063 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.01	<0.01				
6/7/2016	<0.01			<0.01	<0.01		
7/27/2016	<0.01	<0.01	<0.01	<0.01			
7/28/2016					<0.01		
9/16/2016	<0.01		<0.01				
9/19/2016		<0.01		<0.01	<0.01		
11/2/2016				<0.01			
11/3/2016	<0.01	<0.01	<0.01		<0.01		
1/11/2017	<0.01	<0.01	<0.01				
1/13/2017				<0.01	<0.01		
3/1/2017		<0.01	<0.01				
3/2/2017	<0.01						
3/6/2017				<0.01	0.0007 (J)		
4/26/2017		<0.01	<0.01	<0.01	0.0008 (J)		
5/2/2017	<0.01						
6/28/2017		<0.01	<0.01				
6/29/2017	<0.01			<0.01	<0.01		
10/11/2017						0.0094 (J)	
10/12/2017							<0.01
11/20/2017						0.0081 (J)	<0.01
1/10/2018							<0.01
1/11/2018						0.0074 (J)	
2/19/2018							<0.01
2/20/2018						<0.01	
3/28/2018	<0.01	<0.01	<0.01				
3/29/2018				<0.01	<0.01		
4/3/2018						0.006 (J)	<0.01
6/28/2018						0.005 (J)	<0.01
8/7/2018						0.0045 (J)	<0.01
9/24/2018						0.0035 (J)	<0.01
3/5/2019	<0.01		<0.01	<0.01	<0.01		
3/6/2019		<0.01					
8/21/2019						0.0021 (J)	<0.01
10/9/2019						0.0018 (J)	<0.01
2/11/2020	<0.01	<0.01	<0.01				
2/12/2020				<0.01	<0.01	0.0025 (J)	<0.01
3/24/2020	<0.01	<0.01	<0.01	<0.01	<0.01		<0.01
3/25/2020						0.002 (J)	
9/23/2020	<0.01	<0.01	<0.01				
9/24/2020				<0.01	<0.01	0.0016 (J)	<0.01
2/9/2021		<0.01	<0.01	<0.01	<0.01		
2/10/2021						0.0013 (J)	<0.01
3/3/2021	<0.01	<0.01	<0.01	<0.01			
3/4/2021					<0.01	0.0014 (J)	<0.01
8/26/2021			<0.01			0.0027 (J)	
8/27/2021	<0.01	<0.01		<0.01			
9/1/2021					<0.01		
9/3/2021							<0.01
2/8/2022						0.0035 (J)	<0.01
2/9/2022	<0.01	<0.01	<0.01	<0.01	<0.01		
8/30/2022	<0.01	<0.01	<0.01		<0.01		
8/31/2022				<0.01		0.0036 (J)	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/7/2023	<0.01	<0.01	<0.01	<0.01	<0.01	0.0045 (J)	
2/8/2023							<0.01
8/15/2023	<0.01	<0.01	<0.01	<0.01	<0.01	0.0061 (J)	<0.01
2/20/2024	<0.01	<0.01		<0.01	<0.01	0.0058 (J)	<0.01
2/23/2024			<0.01				
8/20/2024	<0.01	<0.01		<0.01	<0.01		
8/21/2024			<0.01			0.0068 (J)	<0.01

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	<0.01	0.0035 (J)	<0.01		
6/9/2016					<0.01
7/26/2016	<0.01	0.0042 (J)	<0.01		
8/2/2016					<0.01
8/31/2016				<0.01	
9/14/2016	<0.01	0.0041 (J)	<0.01		
9/21/2016					<0.01
11/2/2016	<0.01	0.0039 (J)			
11/4/2016			<0.01		
11/7/2016					<0.01
11/28/2016				<0.01	
1/12/2017		0.0041 (J)	<0.01		
1/13/2017	<0.01				
1/19/2017					<0.01
2/22/2017				<0.01	<0.01
3/6/2017	<0.01				
3/7/2017		0.0047 (J)	<0.01		
5/1/2017	<0.01	0.0045 (J)			
5/2/2017			<0.01		
5/8/2017				<0.01	<0.01
6/27/2017		0.004 (J)	<0.01		
6/29/2017	<0.01				
7/5/2017					<0.01
7/17/2017				<0.01	
10/16/2017				<0.01	
2/19/2018				<0.01	
3/29/2018	<0.01	<0.01	<0.01		<0.01
6/11/2018					<0.01
8/6/2018				<0.01	
10/2/2018					<0.01
2/27/2019					<0.01
3/4/2019	<0.01	<0.01	<0.01		
4/1/2019					<0.01
8/19/2019				<0.01	
9/25/2019					<0.01
2/12/2020	<0.01	0.0011 (J)	<0.01		
2/13/2020					<0.01
3/20/2020					<0.01
3/24/2020		0.0011 (J)	<0.01		
3/25/2020	<0.01				
8/26/2020				<0.01	
9/22/2020	<0.01	0.00099 (J)	<0.01		
9/24/2020					<0.01
2/8/2021		0.0011 (J)	<0.01		
2/9/2021	<0.01				
2/12/2021					0.00083 (J)
3/2/2021		<0.01	<0.01		
3/3/2021	<0.01				<0.01
8/20/2021				<0.01	<0.01
8/26/2021	<0.01	0.001 (J)	<0.01		
2/8/2022				<0.01	<0.01
2/10/2022		0.00096 (J)	<0.01		

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/11/2022	<0.01				
8/30/2022		0.00089 (J)	<0.01	<0.01	
8/31/2022	<0.01				
9/1/2022					<0.01
2/7/2023		0.00095 (J)		<0.01	
2/8/2023					0.00099 (J)
2/9/2023	<0.01		<0.01		
8/2/2023					<0.01
8/15/2023	<0.01	0.0009 (J)	<0.01	<0.01	
2/20/2024	<0.01	0.001 (J)	<0.01	<0.01	
2/22/2024					<0.01
8/20/2024	<0.01	0.00074 (J)	<0.01		
8/22/2024					<0.01

Time Series

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		7.46	6.33				7.72
6/2/2016	5.46				5.75	7.84	
7/25/2016			6.21		5.82		7.74
7/26/2016	5.45	7.43				7.88	
9/13/2016		7.44	6.16	7.41			
9/14/2016							7.65
9/15/2016	5.45					7.74	
9/19/2016					5.78 (D)		
11/1/2016		7.24			5.62	7.75	7.7
11/2/2016	5.41						
11/4/2016			6.29	7.12			
12/15/2016				7.24			
1/10/2017	5.37						
1/11/2017		7.3				7.66	7.53
1/16/2017			6.29	7.24	5.72		
2/21/2017					5.67		
3/1/2017							7.42
3/2/2017		7.23	6.28			7.68	
3/3/2017				7.22			
3/8/2017	5.41						
4/26/2017	5.02				5.56	7.45	7.4
4/27/2017		6.99	6.09				
4/28/2017				7.21			
5/26/2017				7.13			
6/27/2017		6.87	6.21				
6/28/2017				7.06		7.65	7.5
6/30/2017	5.39				5.72		
10/3/2017		6.81	5.98	6.99			
10/4/2017					5.87	7.49	7.45
10/5/2017	5.49						
3/27/2018	5.47		6.25		5.83		
3/28/2018				7.3		7.91	7.74
3/29/2018		7.38					
6/5/2018		7.16					
6/6/2018			6.17				
6/7/2018				7.29		7.69	
6/8/2018	5.45						7.64
6/11/2018					5.69		
10/1/2018	5.39	6.8	5.9	7.07		7.39	7.47
10/2/2018					5.39		
2/26/2019	5.46				5.77		
2/27/2019		6.84	5.8	7.27		7.55	7.54
3/28/2019		6.99	6.15				
3/29/2019	5.34			7.06			
4/1/2019					5.62	7.87	7.74
9/24/2019		7.07	6.23	7.01			
9/25/2019	5.19				5.69	7.64	7.47
2/10/2020		7.2	6.1				
2/11/2020				7.38			7.09
2/12/2020	5.48				5.8	7.83	
3/18/2020	5.38		6.19				
3/19/2020		7.03		7.22	6	7.65	7.31

Time Series

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		7.15	6.01	7.22		7.57	7.37
9/24/2020					5.67		
9/25/2020	5.44						
2/10/2021	5.35			7.29		7.81	7.58
2/11/2021					5.73		
2/12/2021		7.14	6.21				
3/1/2021					5.78		
3/2/2021	5.49						
3/3/2021		7.2	5.38	7.92		8.39	8.23
8/19/2021	7.32	6.32	6.38			5.34	
8/27/2021				7.14			7.39
2/9/2022		7.12	6.24	5.89		7.97	7.66
2/10/2022	4.5						
2/11/2022					5.59		
8/30/2022		7.2		7.04			
8/31/2022	5.15		5.64		5.87	7.65	7.49
2/7/2023		7.86	6.53	6.94			
2/8/2023	5.39				6.43	7.88	7.73
8/15/2023	5.03	6.98	5.88	6.96		7.69	
8/16/2023					5.55		7.39
2/20/2024		7.06	6.42	7.23	5.81	7.81	7.59
2/23/2024	5.39						
8/20/2024	5.49	7.18	5.77	6.91	6.07	7.59	7.45

Time Series

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	
8/30/2016							5.75
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	
11/7/2016	5.91	5.35	6.3	6.25		6.36	
11/8/2016					6.37		
11/14/2016							5.59
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		
2/23/2017			6.18				
2/24/2017							5.49
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			5.58
6/30/2017			6.21	6.17			
7/5/2017					6.4		
7/7/2017						6.46	
7/10/2017	5.92	5.25					
7/11/2017							5.58
10/5/2017					6.43		
10/6/2017				6.13			
10/9/2017			6.26			6.37	
10/10/2017	5.84	5.17					5.49
3/29/2018			6.36	6.25			
3/30/2018	6.19	5.19			6.39	6.35	
4/2/2018							6.3
6/12/2018				6.22	6.42	6.47	
6/13/2018	5.82	5.12	6.28				
9/19/2018							5.48
10/2/2018	5.81	4.95	5.9	5.99			
10/3/2018					6.21	6.01	
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	
3/27/2019							5.83
4/1/2019			6.43	6.4	6.3		
4/2/2019	5.87	5.13				6.7	
8/20/2019							5.58
9/25/2019	5.79	5.24					
9/26/2019			6.3	6.22	6.43	6.47	
10/8/2019							5.59
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	
3/17/2020							5.57
3/19/2020		5.46			7.01	6.98	
3/20/2020	5.94		6.32	6.18			
8/27/2020							4.88
9/22/2020							5.46
9/24/2020	5.86	5.46	6.36	6.27	6.41	6.53	
2/10/2021	5.96	5.18	6.29	6.21			

Time Series

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/11/2021					6.57		
2/12/2021						6.6	
3/1/2021							5.48
3/2/2021		5.38					
3/3/2021	5.93		6.43	6.35	6.51	6.61	
8/19/2021		5.12					5.5
8/20/2021	5.78		6.17	6.18	6.23	6.38	
2/8/2022				6.22	6.34	6.3	5.4
2/10/2022	5.84	5.31	6.23				
8/31/2022	5.77	5.61					5.32
9/1/2022			6.13	6.13	6.41	6.59	
2/8/2023							5.22
2/9/2023	5.76	5.64	6.48	6.64	6.7	6.87	
8/15/2023							5.69
8/16/2023					6.3	6.36	
8/17/2023	5.77	5.38	6.2	6.06			
2/20/2024							5.62
2/21/2024			6.43	6.26	6.43	6.49	
2/22/2024	5.92	5.58					
8/20/2024							5.48
8/21/2024	6.31	6.17	7.28				
8/22/2024				6.27	6.19	6.23	

Time Series

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		6.17	5.71				
6/7/2016	5.62			5.77	6.1		
7/27/2016	5.59	6.14	5.46	5.79			
7/28/2016					6.12		
9/16/2016	5.58						
9/19/2016		6.04	5.59	5.73	6.12		
11/2/2016				5.67			
11/3/2016	5.59	5.97	5.39		6.07		
1/11/2017	5.59	6.05	5.48				
1/13/2017				5.79	6.41		
3/1/2017		5.94	5.41				
3/2/2017	5.54						
3/6/2017				5.63	6.34		
4/26/2017		5.99	5.4	5.66	6.32		
5/2/2017	5.47						
6/28/2017		6	5.36				
6/29/2017	5.56			5.85	6.47		
10/3/2017					6.56		
10/4/2017	5.57		5.32	5.83			
10/5/2017		6.11					
10/11/2017						6.4	
10/12/2017							5.43
11/20/2017						6.33	5.1
1/10/2018							4.97
1/11/2018						6.29	
2/19/2018							5.6
2/20/2018						7.22	
3/28/2018	5.59	6.1	5.34				
3/29/2018				5.93	6.75		
4/3/2018						6.87	5.84
6/5/2018					6.09		
6/6/2018				5.86			
6/7/2018		5.98					
6/11/2018	5.58		5.28				
6/28/2018						6.18	5.24
8/7/2018						6.08	5.18
9/24/2018						5.81	5.14
9/25/2018	5.59	5.81	4.86	5.84	6.67		
3/5/2019	5.48		5.26	6.07	7.22		
3/6/2019		5.99					
3/26/2019							5.3
3/27/2019						5.84	
4/2/2019	5.74				6.94		
4/3/2019		6.29	5.47	5.71			
8/21/2019						5.96	5.26
9/24/2019					6.87		
9/25/2019	5.49			5.86			
9/26/2019		6.04	5.2				
10/9/2019						5.81	5.22
2/11/2020	5.58	6.07	5.3				
2/12/2020				6	7.13	5.97	5.3
3/24/2020	5.57	5.98	5.33	5.86	6.35		5.29

Time Series

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/25/2020						5.78	
9/23/2020	5.58	6.01	5.29				
9/24/2020				5.8	6.7	5.7	5.43
2/9/2021		6.12	5.43	5.86	6.95		
2/10/2021						5.8	5.19
3/3/2021	5.52	5.89	5.31	5.89			
3/4/2021					6.8	5.54	5.23
8/26/2021			4.4			6.91	
8/27/2021	5.27	5.4		5.57			
9/1/2021					6.65		
9/3/2021							4.75
2/8/2022						5.78	5.26
2/9/2022	5.53	5.98	5.28	5.91	6.84		
8/30/2022	4.68	5.82	5.18		6.58		
8/31/2022				5.38		5.3	4.53
2/7/2023	5.47	6	5.03	5.63	6.82	5.49	
2/8/2023							5.71
8/15/2023	5.54	5.82	5.2	7	6.84	5.78	5
2/20/2024	5.64	6.11		5.99	6.78	5.97	5.32
2/23/2024			5.3				
8/20/2024	5.45	5.74		6	6.6		
8/21/2024			5.29			6	5.38

Time Series

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
8/27/2008				6.53	
3/3/2009				6.35	
11/18/2009				6.47	
3/3/2010				6.53	
3/10/2011				5.83	
9/8/2011				5.69	
3/5/2012				6.27	
9/10/2012				6.23	
2/6/2013				7.56	
8/12/2013				6.68	
2/5/2014				6.32	
8/3/2015				6.13 (D)	
2/16/2016				5.64	
6/2/2016	6.36	7.67	5.75		
6/9/2016					6.19
7/26/2016	6.22	7.66	5.72		
8/2/2016					6.17
9/14/2016	6.23	7.6	5.74		
9/21/2016					6.2
11/2/2016	6.08	7.35			
11/4/2016			5.61		
11/7/2016					6.1
11/28/2016				6.23	
1/12/2017		7.49	5.71		
1/13/2017	6.19				
1/19/2017					6.22
2/22/2017				6.21	6.12
3/6/2017	6.2				
3/7/2017		7.43	5.66		
5/1/2017	6.21	7.22			
5/2/2017			5.65		
5/8/2017				6.12	6.11
6/27/2017		7.32	5.7		
6/29/2017	6.21				
7/5/2017					6.17
7/17/2017				6.03	
10/3/2017		7.48	5.79		
10/5/2017	6.16				6.17
10/16/2017				6.12	
2/19/2018				6.13	
3/29/2018	6.09	7.02	5.63		6.09
6/6/2018		7.43			
6/7/2018	6.12		5.63		
6/11/2018					6.17
8/6/2018				6.01	
9/26/2018	5.84	7.13	5.63		
10/2/2018					6.17
2/25/2019				6.51	
2/27/2019					6.19
3/4/2019	6.18	7.46	5.75		
4/1/2019					6.03
4/3/2019	6.43	7.11	5.63		

Time Series

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/12/2019				6.3	
8/19/2019				6.23	
9/24/2019		6.93	5.6		
9/25/2019	6.2				6.21
10/8/2019				6.28	
2/12/2020	6.15	7.52	5.83		
2/13/2020					6.32
3/17/2020				6.14	
3/20/2020					6.17
3/24/2020		7.34	5.81		
3/25/2020	6.26				
5/6/2020				6.24	
8/26/2020				5.67	
9/22/2020	5.8	7.19	5.99	5.78	
9/24/2020					6.2
2/8/2021			5.67		
2/9/2021	6.06				
2/12/2021					6.24
3/2/2021		7.15	5.63	5.42	
3/3/2021	6.21				6.27
8/20/2021				5.86	6.07
8/26/2021	5.82	7.16	5.51		
2/8/2022				5.83	5.88
2/10/2022		6.99	5.14		
2/11/2022	5.95				
8/30/2022		7.4	5	5.39	
8/31/2022	5.5				
9/1/2022					6.05
2/7/2023		6.64		5.94	
2/8/2023					6.67
2/9/2023	6.23		5.9		
8/2/2023					6.04
8/15/2023	5.99	7.34	5.58	5.3	
2/20/2024	6.21	7.56	5.78	6.07	
2/22/2024					6.01
8/20/2024	6.03	7.3	5.58		
8/22/2024					5.86

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	<0.005				<0.005
6/2/2016	0.0011 (J)				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	0.0016 (J)	<0.005				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	0.0014 (J)					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	<0.005			
12/15/2016				<0.005			
1/10/2017	0.0012 (J)						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			<0.005	<0.005	<0.005		
2/21/2017					<0.005		
3/1/2017							<0.005
3/2/2017		<0.005	<0.005			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		<0.005	<0.005				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	<0.005				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
2/26/2019	<0.005				<0.005		
2/27/2019		<0.005	<0.005	<0.005		<0.005	<0.005
3/28/2019		<0.005	<0.005				
3/29/2019	0.0019 (J)			<0.005			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		<0.005	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		<0.005	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		<0.005				
3/19/2020		<0.005		<0.005	<0.005	<0.005	<0.005
9/23/2020		<0.005	<0.005	<0.005		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						
2/10/2021	<0.005			<0.005		<0.005	<0.005
2/11/2021					<0.005		
2/12/2021		<0.005	<0.005				
3/1/2021					<0.005		
3/2/2021	<0.005						
3/3/2021		<0.005	<0.005	<0.005		<0.005	<0.005
8/19/2021	<0.005	<0.005	<0.005		<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
8/27/2021				<0.005			<0.005
2/9/2022		<0.005	<0.005	<0.005		<0.005	<0.005
2/10/2022	0.0014 (J)						
2/11/2022					<0.005		
8/30/2022		<0.005		<0.005			
8/31/2022	<0.005		<0.005		<0.005	<0.005	<0.005
2/7/2023		<0.005	<0.005	<0.005			
2/8/2023	<0.005				<0.005	<0.005	<0.005
8/15/2023	0.0014 (J)	<0.005	<0.005	<0.005		<0.005	
8/16/2023					<0.005		<0.005
2/20/2024		<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/23/2024	0.001 (J)						
8/20/2024	0.0012 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	0.0016	0.0003 (J)	<0.005	<0.005			
6/9/2016					<0.005	<0.005	
8/1/2016	0.0023 (J)	0.0014 (J)	<0.005	<0.005			
8/2/2016					<0.005	<0.005	
8/30/2016							0.0017 (J)
9/20/2016	0.0022 (J)	<0.005	<0.005	<0.005			
9/21/2016					<0.005	0.001 (J)	
11/7/2016	0.0017 (J)	<0.005	<0.005	<0.005		<0.005	
11/8/2016					<0.005		
11/14/2016							<0.005
1/18/2017	0.002 (J)	0.0012 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			
2/21/2017	0.0018 (J)	0.0014 (J)				<0.005	
2/22/2017				<0.005	0.0012 (J)		
2/23/2017			<0.005				
2/24/2017							0.0011 (J)
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.01		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		
7/7/2017						<0.005	
7/10/2017	0.002 (J)	<0.005					
7/11/2017							<0.005
10/10/2017							<0.005
3/29/2018			<0.005	<0.005			
3/30/2018	<0.01	<0.005			<0.005	<0.005	
4/2/2018							<0.005
9/19/2018							<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
4/1/2019			<0.005	<0.005	<0.005		
4/2/2019	0.0017 (J)	<0.005				<0.005	
8/20/2019							<0.005
9/25/2019	0.0019 (J)	<0.005					
9/26/2019			<0.005	<0.005	<0.005	<0.005	
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
3/19/2020		<0.005			<0.005	<0.005	
3/20/2020	0.0019 (J)		<0.005	<0.005			
8/27/2020							<0.005
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
2/10/2021	0.0026 (J)	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	
3/2/2021		<0.005					
3/3/2021	0.0034 (J)		<0.005	<0.005	<0.005	<0.005	
8/19/2021		<0.005					<0.005
8/20/2021	0.0026 (J)		<0.005	<0.005	<0.005	<0.005	
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005	<0.005				
8/31/2022	0.0036 (J)	<0.005					<0.005
9/1/2022			<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/9/2023	0.0042 (J)	<0.005	<0.005	<0.005	<0.005	<0.005	
8/15/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	0.0046 (J)	<0.005	<0.005	<0.005			
2/20/2024							<0.005
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	0.0041 (J)	<0.005					
8/20/2024							<0.005
8/21/2024	0.0047 (J)	<0.005	<0.005				
8/22/2024				<0.005	<0.005	<0.005	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.005	<0.005				
6/7/2016	0.001 (J)			<0.005	0.00048 (J)		
7/27/2016	0.0012 (J)	<0.005	<0.005	<0.005			
7/28/2016					<0.005		
9/16/2016	0.0015 (J)		<0.005				
9/19/2016		<0.005		<0.005	0.0014 (J)		
11/2/2016				<0.005			
11/3/2016	0.0015 (J)	<0.005	<0.005		<0.005		
1/11/2017	0.0014 (J)	<0.005	<0.005				
1/13/2017				<0.005	<0.005		
3/1/2017		<0.005	<0.005				
3/2/2017	0.0017 (J)						
3/6/2017				<0.005	<0.005		
4/26/2017		<0.005	<0.005	<0.005	<0.005		
5/2/2017	<0.005						
6/28/2017		<0.005	<0.005				
6/29/2017	<0.005			<0.005	<0.005		
10/11/2017						<0.005	
10/12/2017							<0.005
11/20/2017						<0.005	0.0042 (J)
1/10/2018							0.0043 (J)
1/11/2018						<0.005	
2/19/2018							<0.005
2/20/2018						<0.005	
3/28/2018	<0.005	<0.005	<0.005				
3/29/2018				<0.005	<0.005		
4/3/2018						<0.005	<0.005
6/5/2018					<0.005		
6/6/2018				<0.005			
6/7/2018		<0.005					
6/11/2018	<0.005		<0.005				
6/28/2018						<0.005	0.0032 (J)
8/7/2018						<0.005	0.0031 (J)
9/24/2018						0.0015 (J)	0.0026 (J)
9/25/2018	<0.005	<0.005	<0.005	<0.005	<0.005		
3/5/2019	<0.005		<0.005	<0.005	<0.005		
3/6/2019		<0.005					
4/2/2019	<0.005				<0.005		
4/3/2019		<0.005	<0.005	<0.005			
8/21/2019						<0.005	0.0024 (J)
9/24/2019					<0.005		
9/25/2019	<0.005			<0.005			
9/26/2019		<0.005	<0.005				
10/9/2019						<0.005	0.0026 (J)
2/11/2020	<0.005	<0.005	<0.005				
2/12/2020				<0.005	<0.005	<0.005	0.002 (J)
3/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005		0.002 (J)
3/25/2020						<0.005	
9/23/2020	<0.005	<0.005	<0.005				
9/24/2020				<0.005	<0.005	<0.005	0.0016 (J)
2/9/2021		<0.005	<0.005	<0.005	<0.005		
2/10/2021						<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
3/3/2021	<0.005	<0.005	<0.005	<0.005			
3/4/2021					<0.005	<0.005	<0.005
8/26/2021			<0.005			<0.005	
8/27/2021	<0.005	<0.005		<0.005			
9/1/2021					<0.005		
9/3/2021							<0.005
2/8/2022						<0.005	0.0014 (J)
2/9/2022	<0.005	<0.005	<0.005	<0.005	<0.005		
8/30/2022	<0.005	<0.005	<0.005		<0.005		
8/31/2022				<0.005		<0.005	<0.005
2/7/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	
2/8/2023							<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/20/2024	<0.005	<0.005		<0.005	<0.005	<0.005	<0.005
2/23/2024			<0.005				
8/20/2024	<0.005	<0.005		<0.005	<0.005		
8/21/2024			<0.005			<0.005	<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.005	
9/11/2007				<0.005	
3/20/2008				<0.005	
8/27/2008				<0.005	
3/3/2009				<0.005	
11/18/2009				<0.005	
3/3/2010				<0.005	
9/8/2010				<0.005	
3/10/2011				<0.005	
9/8/2011				<0.005	
3/5/2012				<0.005	
9/10/2012				<0.005	
2/6/2013				<0.005	
8/12/2013				<0.005	
2/5/2014				<0.005	
8/5/2014				<0.005	
2/4/2015				<0.005	
8/3/2015				<0.005	
2/16/2016				<0.005	
6/2/2016	<0.005	<0.005	<0.005		
6/9/2016					<0.005
7/26/2016	0.0009 (J)	<0.005	0.0009 (J)		
8/2/2016					<0.005
8/31/2016				<0.005	
9/14/2016	<0.005	<0.005	<0.005		
9/21/2016					<0.005
11/2/2016	<0.005	<0.005			
11/4/2016			<0.005		
11/7/2016					<0.005
11/28/2016				<0.005	
1/12/2017		<0.005	<0.005		
1/13/2017	<0.005				
1/19/2017					<0.005
2/22/2017				<0.005	<0.005
3/6/2017	<0.005				
3/7/2017		<0.005	<0.005		
5/1/2017	<0.005	<0.005			
5/2/2017			<0.005		
5/8/2017				<0.005	<0.005
6/27/2017		<0.005	<0.005		
6/29/2017	<0.005				
7/5/2017					<0.005
7/17/2017				<0.005	
10/16/2017				<0.005	
2/19/2018				<0.005	
3/29/2018	<0.005	<0.005	<0.005		<0.005
6/6/2018		<0.005			
6/7/2018	<0.005		<0.005		
8/6/2018				<0.005	
9/26/2018	<0.005	<0.005	<0.005		
2/25/2019				<0.005	
2/27/2019					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Selenium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
3/4/2019	<0.005	<0.005	<0.005		
4/1/2019					<0.005
4/3/2019	<0.005	<0.005	<0.005		
6/12/2019				<0.005	
8/19/2019				<0.005	
9/24/2019		<0.005	<0.005		
9/25/2019	<0.005				<0.005
10/8/2019				<0.005	
2/12/2020	<0.005	<0.005	<0.005		
2/13/2020					<0.005
3/17/2020				<0.005	
3/20/2020					<0.005
3/24/2020		<0.005	<0.005		
3/25/2020	<0.005				
8/26/2020				<0.005	
9/22/2020	<0.005	<0.005	<0.005	<0.005	
9/24/2020					<0.005
2/8/2021		<0.005	<0.005		
2/9/2021	<0.005				
2/12/2021					<0.005
3/2/2021		<0.005	<0.005	<0.005	
3/3/2021	0.0019 (J)				<0.005
8/20/2021				<0.005	<0.005
8/26/2021	<0.005	<0.005	<0.005		
2/8/2022				<0.005	<0.005
2/10/2022		<0.005	<0.005		
2/11/2022	<0.005				
8/30/2022		<0.005	<0.005	<0.005	
8/31/2022	<0.005				
9/1/2022					<0.005
2/7/2023		<0.005		<0.005	
2/8/2023					<0.005
2/9/2023	<0.005		<0.005		
8/2/2023					<0.005
8/15/2023	<0.005	<0.005	<0.005	<0.005	
2/20/2024	<0.005	<0.005	<0.005	<0.005	
2/22/2024					<0.005
8/20/2024	<0.005	<0.005	<0.005		
8/22/2024					<0.005

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2				12
6/2/2016	6.6				1.3	5.8	
7/25/2016			3.7		1.2		8.4
7/26/2016	6.1	5.4				6.7	
9/13/2016		2.9	5.2				
9/14/2016				9.4			8.6
9/15/2016	6.1					6	
9/19/2016					1.2		
11/1/2016		3.9			1.3	4.9	8.9
11/2/2016	6.3						
11/4/2016			5	13			
12/15/2016				1.8			
1/10/2017	5.9						
1/11/2017		3.7				4.5	8.6
1/16/2017			7.9	11	<1.5		
2/21/2017					1.4		
3/1/2017							9.3
3/2/2017		4.6	7.4			4.4	
3/3/2017				8.8			
3/8/2017	7						
4/26/2017	7				1.4	5.1	11
4/27/2017		5.2	7.4				
4/28/2017				10			
5/26/2017				12			
6/27/2017		5.9	6.4				
6/28/2017				11		5.4	12
6/30/2017	6.5				<1.5		
10/3/2017		6.6	5.9	7.9			
10/4/2017					1.4	6.2	12
10/5/2017	7.9						
6/5/2018		6.4					
6/6/2018			4.4				
6/7/2018				8.8		6.7	
6/8/2018	6.4						9.6
6/11/2018					1.1		
10/1/2018	6.8	5.6	4	9.1		7.1	9.1
10/2/2018					1		
3/28/2019		8	4.3				
3/29/2019	7.3			9			
4/1/2019					0.96 (J)	7.2	8.5
9/24/2019		5.3	4.3	9.1			
9/25/2019	6.6				0.81 (J)	7	13.8
3/18/2020	8.1		5.3				
3/19/2020		10		12.4	1.6	9	12.9
9/23/2020		8.1	3.4	11.8		6.9	16.8
9/24/2020					0.69 (J)		
9/25/2020	6.1						
3/1/2021					0.88 (J)		
3/2/2021	6						
3/3/2021		9	4.4	10.6		7	9.6
8/19/2021	6.7	8.9	4.9		1	7.5	
8/27/2021				16.7			18.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		9.3	5.1	18		7.2	16
2/10/2022	6.2						
2/11/2022					2.8		
8/30/2022		10.2		20.1			
8/31/2022	5.8		4.8		1.1	6.9	13.9
2/7/2023		10.6	6.6	17.8			
2/8/2023	6.1				0.96 (J)	7.5	14.7
8/15/2023	6	9.6	4.6	17.2		6.8	
8/16/2023					0.9 (J)		20.3
2/20/2024		9.7	4.3	23.1	0.69 (J)	7	13.8
2/23/2024	7.1						
8/20/2024	7.6	12.2	4.9	21.3	0.74 (J)	7.7	13.7

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	
8/30/2016							160
9/20/2016	78	100	5.6	21			
9/21/2016					8	<4.7 (*)	
11/7/2016	81	100	5.4	24		4.3	
11/8/2016					8.3		
11/14/2016							150
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			
2/21/2017	80	96				3	
2/22/2017				24	8.2		
2/23/2017			4.9				
2/24/2017							120
5/3/2017		100					
5/5/2017					<8.4 (*)	<4.7 (*)	
5/8/2017	84		3.9	23			120
6/30/2017			5	23			
7/5/2017					8.1		
7/7/2017						2.7	
7/10/2017	84	100					
7/11/2017							110
10/5/2017					8.6		
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					93
4/2/2018							88.8
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
9/19/2018							75
10/2/2018	83.9	99	6.1	20.2			
10/3/2018					8	2.1	
3/27/2019							65.9
4/1/2019			4.1	18.3	8.2		
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					
9/26/2019			4.2	18.2	7.9	1.6	
10/8/2019							52.3
3/17/2020							71.6
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			
9/22/2020							51.5
9/24/2020	85.6	92.3	3	16.6	7.2	0.99 (J)	
3/1/2021							51.6
3/2/2021		92.7					
3/3/2021	89.3		2.6	451 (o)	8.6	4.9	
8/19/2021		86.5					52.6
8/20/2021	84		2.9	18	8.9	5.4	
2/8/2022				16.3	8.1	10.5	50.9
2/10/2022	81.8	86.5	2.4				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	85.9	90.2					48
9/1/2022			2.5	13.5	7.6	13.4	
2/8/2023							50.5
2/9/2023	84.2	89.7	3.2	13.7	7.4	16	
8/15/2023							47.7
8/16/2023					7.8	16.2	
8/17/2023	81.1	85.7	3.3	14.2			
2/20/2024							51
2/21/2024			3.8	13	8.5	3.9	
2/22/2024	80.7	89.3					
8/20/2024							53.9
8/21/2024	83.5	90.9	4.2				
8/22/2024				15.7	9	5.5	

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		1.2	1.8				
6/7/2016	4.4			<1	5.2		
7/27/2016	4.7	1.7	1.9	0.08 (J)			
7/28/2016					5.1		
9/16/2016	4.8		1.7				
9/19/2016		1.8		0.08 (J)	4.8		
11/2/2016				0.1 (J)			
11/3/2016	5.3	0.69 (J)	1.9		5		
1/11/2017	5.2	<1	1.7				
1/13/2017				<1	4.3		
3/1/2017		1.8	<1.5				
3/2/2017	5						
3/6/2017				<1	4.5		
4/26/2017		1.6	1.9	<1	4.9		
5/2/2017	5						
6/28/2017		<1	<1.5				
6/29/2017	5.2			<1	5.5		
10/3/2017					5.8		
10/4/2017	5.3		1.7	<1			
10/5/2017		1.6					
10/11/2017						20	
10/12/2017							17
11/20/2017						24	71
1/10/2018							66
1/11/2018						23	
2/19/2018							57.2
2/20/2018						20.6	
4/3/2018						24.5	49.4
6/5/2018					6.1		
6/6/2018				0.049 (J)			
6/7/2018		0.68 (J)					
6/11/2018	5.2		0.95 (J)				
6/28/2018						22	43.8
8/7/2018						20.7	40.5
9/24/2018						21.2	39.7
9/25/2018	6.1	1	1.5	0.13 (J)	7		
3/26/2019							34.3
3/27/2019						17.7	
4/2/2019	5.1				3.8		
4/3/2019		0.82 (J)	1.3	0.12 (J)			
9/24/2019					1		
9/25/2019	5.5			<1			
9/26/2019		0.64 (J)	1				
10/9/2019						15	27.9
3/24/2020	5.4	<1	0.99 (J)	<1	3		25.2
3/25/2020						14.3	
9/23/2020	5.1	0.53 (J)	1.1				
9/24/2020				<1	3.6	11.7	22.9
3/3/2021	5.2	<1	1	<1			
3/4/2021					4.5	12	21.5
8/26/2021			1.2			19.2	
8/27/2021	5.3	0.59 (J)		<1			

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					5		
9/3/2021							21.3
2/8/2022						14.6	17.9
2/9/2022	4.8	0.51 (J)	1.1	<1	3.9		
8/30/2022	4.7	0.78 (J)	1.3		3.2		
8/31/2022				<1		10.9	17.9
2/7/2023	4.9	0.78 (J)	1.2	<1	3.8	9.7	
2/8/2023							17.5
8/15/2023	4.6	0.51 (J)	0.88 (J)	<1	4.1	7.6	16.4
2/20/2024	4.6	<1		<1	3.8	8.6	17.2
2/23/2024			0.79 (J)				
8/20/2024	4.6	0.74 (J)		<1	4		
8/21/2024			1.1			6.6	18.2

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	8	20	1.9		
6/9/2016					33
7/26/2016	7.7	20	1.8		
8/2/2016					32
8/31/2016				29	
9/14/2016	7.5	19	1.8		
9/21/2016					32
11/2/2016	8.2	20			
11/4/2016			2		
11/7/2016					33
11/28/2016				36	
1/12/2017		19	1.9		
1/13/2017	8.1				
1/19/2017					32
2/22/2017				43	31
3/6/2017	8				
3/7/2017		20	2.1		
5/1/2017	8.4	20			
5/2/2017			2		
5/8/2017				60	32
6/27/2017		18	2.1		
6/29/2017	9.2				
7/5/2017					31
7/17/2017				63	
10/3/2017		16	2.3		
10/5/2017	9.6				31
10/16/2017				62	
2/19/2018				64.6	
6/6/2018		8.3			
6/7/2018	8.5		2		
6/11/2018					30.6
8/6/2018				42.1	
9/26/2018	10.2	7.9	2.3		
10/2/2018					30.8
2/25/2019				42.1	
4/1/2019					30.4
4/3/2019	8.5	7	2.1		
6/12/2019				83.4	
9/24/2019		5.5	2.4		
9/25/2019	8.5				30
10/8/2019				128	
3/17/2020				98.6	
3/20/2020					33
3/24/2020		5.9	2.1		
3/25/2020	8.8				
9/22/2020	8.2	5.5	2.1	145	
9/24/2020					26.2
3/2/2021		2.6	2.3	156	
3/3/2021	7.8				26.6
8/20/2021				121	24.7
8/26/2021	8.5	6	2.4		
2/8/2022				107	22.9

Time Series

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		4.9	2.4		
2/11/2022	7.7				
8/30/2022		5.7	2.4	101	
8/31/2022	8				
9/1/2022					21.2
2/7/2023		5.2		82.4	
2/8/2023					23.7
2/9/2023	8.9		2.9		
8/2/2023					22.9
8/15/2023	7.5	4.8	2.2	74.2	
2/20/2024	8.5	5.1	2.5	75	
2/22/2024					26.9
8/20/2024	8.7	4.3	2.6		
8/22/2024					39.7

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.001	<0.001				<0.001
6/2/2016	<0.001				<0.001	<0.001	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		<0.001	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					<0.001	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		<0.001	<0.001			<0.001	
3/3/2017				<0.001			
3/8/2017	<0.001						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		<0.001	5.5E-05 (J)				
2/11/2020				<0.001			<0.001
2/12/2020	8.9E-05 (J)				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/23/2020		<0.001	<0.001	<0.001		<0.001	0.00016 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						
2/10/2021	<0.001			<0.001		<0.001	<0.001
2/11/2021					<0.001		
2/12/2021		<0.001	<0.001				
2/9/2022		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2022	<0.001						
2/11/2022					<0.001		
8/30/2022		<0.001		<0.001			
8/31/2022	<0.001		<0.001		<0.001	<0.001	<0.001
2/7/2023		<0.001	<0.001	<0.001			
2/8/2023	<0.001				<0.001	<0.001	<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001		<0.001	
8/16/2023					<0.001		<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/20/2024		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/23/2024	<0.001						
8/20/2024	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	<0.001	<0.001	<0.001	0.00012 (J)			
6/9/2016					<0.001	<0.001	
8/1/2016	<0.001	<0.001	<0.001	0.0001 (J)			
8/2/2016					<0.001	<0.001	
8/30/2016							<0.001
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					<0.001	<0.001	
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	
11/8/2016					<0.001		
11/14/2016							<0.001
1/18/2017	<0.001	<0.001	<0.001		<0.001	<0.001	
1/19/2017				<0.001			
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	<0.001		
2/23/2017			<0.001				
2/24/2017							<0.001
5/3/2017		<0.001					
5/5/2017					<0.001	<0.001	
5/8/2017	<0.001		<0.001	0.0001 (J)			<0.001
6/30/2017			<0.001	0.0001 (J)			
7/5/2017					<0.001		
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
7/11/2017							<0.001
10/10/2017							<0.001
3/29/2018			<0.001	<0.001			
3/30/2018	<0.001	<0.001			<0.001	<0.001	
4/2/2018							<0.001
9/19/2018							<0.001
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/20/2019							5.8E-05 (J)
10/8/2019							8.4E-05 (J)
2/13/2020	<0.001	5.7E-05 (J)	<0.001	0.0001 (J)	<0.001	<0.001	
3/17/2020							<0.001
3/19/2020		5.5E-05 (J)			<0.001	<0.001	
3/20/2020	<0.001		<0.001	0.00011 (J)			
8/27/2020							<0.001
9/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
2/10/2021	<0.001	<0.001	<0.001	<0.001			
2/11/2021					<0.001		
2/12/2021						<0.001	
8/19/2021							<0.001
2/8/2022				<0.001	<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001	<0.001				
8/31/2022	<0.001	<0.001					<0.001
9/1/2022			<0.001	<0.001	<0.001	<0.001	
2/8/2023							<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	
8/15/2023							<0.001
8/16/2023					<0.001	<0.001	
8/17/2023	<0.001	<0.001	<0.001	<0.001			
2/20/2024							<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
2/21/2024			<0.001	<0.001	<0.001	<0.001	
2/22/2024	<0.001	<0.001					
8/20/2024							<0.001
8/21/2024	<0.001	<0.001	<0.001				
8/22/2024				<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		<0.001	<0.001				
6/7/2016	<0.001			<0.001	<0.001		
7/27/2016	<0.001	<0.001	<0.001	<0.001			
7/28/2016					<0.001		
9/16/2016	<0.001		<0.001				
9/19/2016		<0.001		<0.001	<0.001		
11/2/2016				<0.001			
11/3/2016	<0.001	<0.001	<0.001		<0.001		
1/11/2017	<0.001	<0.001	<0.001				
1/13/2017				<0.001	<0.001		
3/1/2017		<0.001	<0.001				
3/2/2017	<0.001						
3/6/2017				<0.001	<0.001		
4/26/2017		<0.001	<0.001	<0.001	<0.001		
5/2/2017	<0.001						
6/28/2017		<0.001	<0.001				
6/29/2017	<0.001			<0.001	<0.001		
10/11/2017						<0.001	
10/12/2017							<0.001
11/20/2017						<0.001	<0.001
1/10/2018							<0.001
1/11/2018						<0.001	
2/19/2018							<0.001
2/20/2018						<0.001	
3/28/2018	<0.001	<0.001	<0.001				
3/29/2018				<0.001	<0.001		
4/3/2018						<0.001	<0.001
6/28/2018						<0.001	<0.001
8/7/2018						<0.001	<0.001
9/24/2018						<0.001	<0.001
9/25/2018					<0.001		
3/5/2019	<0.001		<0.001	<0.001	<0.001		
3/6/2019		<0.001					
4/2/2019	<0.001				<0.001		
4/3/2019		<0.001	<0.001	<0.001			
8/21/2019						<0.001	<0.001
9/24/2019					<0.001		
9/25/2019	<0.001			<0.001			
9/26/2019		<0.001	<0.001				
2/11/2020	<0.001	<0.001	<0.001				
2/12/2020				<0.001	<0.001	<0.001	<0.001
3/24/2020	<0.001	<0.001	<0.001	<0.001	<0.001		<0.001
3/25/2020						<0.001	
9/23/2020	<0.001	<0.001	<0.001				
9/24/2020				<0.001	<0.001	<0.001	<0.001
2/9/2021		<0.001	<0.001	<0.001	<0.001		
2/10/2021						<0.001	<0.001
2/8/2022						<0.001	<0.001
2/9/2022	<0.001	<0.001	<0.001	<0.001	<0.001		
8/30/2022	<0.001	<0.001	<0.001		<0.001		
8/31/2022				<0.001		<0.001	<0.001
2/7/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/8/2023							<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/20/2024	<0.001	<0.001		<0.001	<0.001	<0.001	<0.001
2/23/2024			<0.001				
8/20/2024	<0.001	<0.001		<0.001	<0.001		
8/21/2024			<0.001			<0.001	<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
5/1/2007				<0.001	
9/11/2007				<0.001	
3/20/2008				<0.001	
8/27/2008				<0.001	
3/3/2009				<0.001	
11/18/2009				<0.001	
3/3/2010				<0.001	
9/8/2010				<0.001	
3/10/2011				<0.001	
9/8/2011				<0.001	
3/5/2012				<0.001	
9/10/2012				<0.001	
2/6/2013				<0.001	
8/12/2013				<0.001	
2/5/2014				<0.001	
8/5/2014				<0.001	
2/4/2015				<0.001	
2/16/2016				<0.001	
6/2/2016	<0.001	<0.001	<0.001		
6/9/2016					<0.001
7/26/2016	<0.001	<0.001	<0.001		
8/2/2016					<0.001
8/31/2016				<0.001	
9/14/2016	<0.001	<0.001	<0.001		
9/21/2016					<0.001
11/2/2016	<0.001	<0.001			
11/4/2016			<0.001		
11/7/2016					<0.001
11/28/2016				<0.001	
1/12/2017		<0.001	<0.001		
1/13/2017	<0.001				
1/19/2017					<0.001
2/22/2017				<0.001	<0.001
3/6/2017	<0.001				
3/7/2017		<0.001	<0.001		
5/1/2017	<0.001	<0.001			
5/2/2017			<0.001		
5/8/2017				6E-05 (J)	<0.001
6/27/2017		<0.001	<0.001		
6/29/2017	<0.001				
7/5/2017					<0.001
7/17/2017				6E-05 (J)	
10/16/2017				7E-05 (J)	
2/19/2018				<0.001	
3/29/2018	<0.001	<0.001	<0.001		<0.001
8/6/2018				<0.001	
2/25/2019				<0.001	
2/27/2019					<0.001
3/4/2019	<0.001	<0.001	<0.001		
4/3/2019	<0.001	<0.001	<0.001		
6/12/2019				<0.001	
8/19/2019				5.5E-05 (J)	

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Thallium (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
9/24/2019		<0.001	<0.001		
9/25/2019	<0.001				
10/8/2019				<0.001	
2/12/2020	<0.001	<0.001	<0.001		
2/13/2020					<0.001
3/17/2020				<0.001	
3/20/2020					<0.001
3/24/2020		<0.001	<0.001		
3/25/2020	<0.001				
8/26/2020				<0.001	
9/22/2020	<0.001	<0.001	<0.001	<0.001	
9/24/2020					<0.001
2/8/2021		<0.001	<0.001		
2/9/2021	<0.001				
2/12/2021					<0.001
3/2/2021				<0.001	
8/20/2021				<0.001	
2/8/2022				<0.001	<0.001
2/10/2022		<0.001	<0.001		
2/11/2022	<0.001				
8/30/2022		<0.001	<0.001	<0.001	
8/31/2022	<0.001				
9/1/2022					<0.001
2/7/2023		<0.001		<0.001	
2/8/2023					0.00021 (J)
2/9/2023	<0.001		<0.001		
8/2/2023					<0.001
8/15/2023	<0.001	<0.001	<0.001	<0.001	
2/20/2024	<0.001	<0.001	<0.001	<0.001	
2/22/2024					<0.001
8/20/2024	<0.001	<0.001	<0.001		
8/22/2024					<0.001

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54				150
6/2/2016	46				36	130	
7/25/2016			48		50		135
7/26/2016	54	94				141	
9/13/2016		105	67				
9/14/2016				152			127
9/15/2016	54					153	
9/19/2016					35		
11/1/2016		44			<25	92	75
11/2/2016	71						
11/4/2016			60	148			
12/15/2016				191			
1/10/2017	45						
1/11/2017		107				159	148
1/16/2017			65	180	47		
2/21/2017					<25		
3/1/2017							182
3/2/2017		98	61			117	
3/3/2017				156			
3/8/2017	178						
4/26/2017	52				55	181	92
4/27/2017		116	31				
4/28/2017				130			
5/26/2017				223			
6/27/2017		89	42				
6/28/2017				166		169	126
6/30/2017	45				42		
10/3/2017		119	58	153			
10/4/2017					31	141	147
10/5/2017	40						
6/5/2018		127					
6/6/2018			96				
6/7/2018				146		95	
6/8/2018	114						158
6/11/2018					59		
10/1/2018	50	117	60	155		165	138
10/2/2018					57		
3/28/2019		87	87				
3/29/2019	63			150			
4/1/2019					54	149	19 (J)
9/24/2019		124	54	146			
9/25/2019	64				51	157	159
3/18/2020	57		35				
3/19/2020		116		148	47	146	148
9/23/2020		108	15	161		157	155
9/24/2020					51		
9/25/2020	54						
3/1/2021					23		
3/2/2021	67						
3/3/2021		99	39	138		137	111
8/19/2021	54	105	44		50	144	
8/27/2021				150			155

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
2/9/2022		105	57	156		154	145
2/10/2022	56						
2/11/2022					66		
8/30/2022		116		153			
8/31/2022	51		46		33	141	137
2/7/2023		131	121	159			
2/8/2023	56				43	144	145
8/15/2023	69	121	65	157		231	
8/16/2023					48		148
2/20/2024		130 (D6)	59	159	55	294	220
2/23/2024	64						
8/20/2024	81	140	67	184	69	164	179

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
6/8/2016	220	200	190	210			
6/9/2016					240	210	
8/1/2016	211	191	191	209			
8/2/2016					226	202	
8/30/2016							319
9/20/2016	217	213	205	224			
9/21/2016					214	216	
11/7/2016	301	284	264	291		399	
11/8/2016					229		
11/14/2016							280
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			
2/21/2017	158	137				198	
2/22/2017				262	310		
2/23/2017			253				
2/24/2017							162
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			194
6/30/2017			193	209			
7/5/2017					217		
7/7/2017						236	
7/10/2017	219	183					
7/11/2017							193
10/5/2017					221		
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					175
4/2/2018							192
6/12/2018				208	234	243	
6/13/2018	228	196	219				
9/19/2018							186
10/2/2018	227	191	227	206			
10/3/2018					232	237	
3/27/2019							170
4/1/2019			198	221	238		
4/2/2019	223	224				<25	
9/25/2019	225	190					
9/26/2019			198	225	241	239	
10/8/2019							172
3/17/2020							165
3/19/2020		194			212	202	
3/20/2020	211		195	182			
9/22/2020							141
9/24/2020	212	171	186	185	209	226	
3/1/2021							145
3/2/2021		154					
3/3/2021	205		173	178	184	217	
8/19/2021		176					134
8/20/2021	224		196	169	194	192	
2/8/2022				159	206	216	151
2/10/2022	207	168	190				

ND substitution: RL or RL/2 if <15% NDs.

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWA-47 (bg)
8/31/2022	228	206					116
9/1/2022			193	124	186	225	
2/8/2023							141
2/9/2023	366	196	189	116	184	226	
8/15/2023							186
8/16/2023					171	233	
8/17/2023	248	207	186	137			
2/20/2024							159
2/21/2024			194	149	213	235	
2/22/2024	215	188					
8/20/2024							155
8/21/2024	237	215	184				
8/22/2024				130	193	226	

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/6/2016		120	58				
6/7/2016	28			38	60		
7/27/2016	74	94	35	74			
7/28/2016					81		
9/16/2016	67		35				
9/19/2016		92		45	68		
11/2/2016				53			
11/3/2016	41	104	48		61		
1/11/2017	104	133	95				
1/13/2017				46	76		
3/1/2017		119	79				
3/2/2017	77						
3/6/2017				164	167		
4/26/2017		162	36	34	50		
5/2/2017	142						
6/28/2017		98	45				
6/29/2017	53			68	94		
10/3/2017					149		
10/4/2017	61		45	54			
10/5/2017		104					
10/11/2017						68	
10/12/2017							74
11/20/2017						139	179
1/10/2018							140
1/11/2018						153	
2/19/2018							119
2/20/2018						87	
4/3/2018						85	106
6/5/2018					109		
6/6/2018				79			
6/7/2018		68					
6/11/2018	70		74				
6/28/2018						88	112
8/7/2018						89	103
9/24/2018						82	107
9/25/2018	86	109	63	73	122		
3/26/2019							90
3/27/2019						75	
4/2/2019	72				134		
4/3/2019		89	63	57			
9/24/2019					157		
9/25/2019	81			75			
9/26/2019		126	72				
10/9/2019						119	98
3/24/2020	71	91	59	76	117		84
3/25/2020						158	
9/23/2020	99	103	81				
9/24/2020				69	113	170	77
3/3/2021	57	95	37	53			
3/4/2021					110	168	57
8/26/2021			31			249	
8/27/2021	93	112		67			

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
9/1/2021					137		
9/3/2021							88
2/8/2022						248	93
2/9/2022	81	103	60	72	131		
8/30/2022	81	100	52		122		
8/31/2022				62		242	92
2/7/2023	78	96	55	89	163	224	
2/8/2023							115
8/15/2023	74	96	81	62	126	225	83
2/20/2024	77	129		164	156	233	109
2/23/2024			52				
8/20/2024	86	128		75	143		
8/21/2024			79			235	94

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
6/2/2016	96	160	66		
6/9/2016					150
7/26/2016	92	177	78		
8/2/2016					155
8/31/2016				209	
9/14/2016	102	187	73		
9/21/2016					138
11/2/2016	115	181			
11/4/2016			75		
11/7/2016					291
11/28/2016				102	
1/12/2017		202	86		
1/13/2017	67				
1/19/2017					145 (D)
2/22/2017				164	185
3/6/2017	159				
3/7/2017		257	108		
5/1/2017	107	165			
5/2/2017			103		
5/8/2017				145	114
6/27/2017		189	73		
6/29/2017	79				
7/5/2017					136
7/17/2017				185	
10/3/2017		170	89		
10/5/2017	95				139
10/16/2017				218	
2/19/2018				173	
6/6/2018		151			
6/7/2018	90		142		
6/11/2018					156
8/6/2018				158	
9/26/2018	116	144	86		
10/2/2018					154
2/25/2019				92	
4/1/2019					147
4/3/2019	111	142	83		
6/12/2019				226	
9/24/2019		129	79		
9/25/2019	117				162
10/8/2019				276	
3/17/2020				185	
3/20/2020					137
3/24/2020		139	68		
3/25/2020	146				
9/22/2020	83	104	75	281	
9/24/2020					133
3/2/2021		52	67	296	
3/3/2021	80				110
8/20/2021				254	110
8/26/2021	93	123	86		
2/8/2022				283	120

Time Series

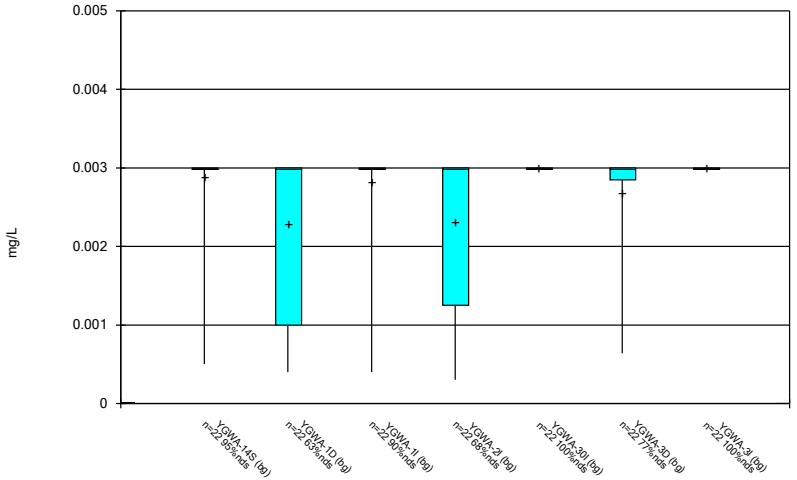
Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:01 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)	YGWC-29IB
2/10/2022		127	77		
2/11/2022	102				
8/30/2022		148	86	244	
8/31/2022	92				
9/1/2022					128
2/7/2023		180		207	
2/8/2023					158
2/9/2023	124		59		
8/2/2023					152
8/15/2023	99	219	76	230	
2/20/2024	140	639 (o)	137	214	
2/22/2024					146
8/20/2024	128	212	108		
8/22/2024					154

FIGURE B.

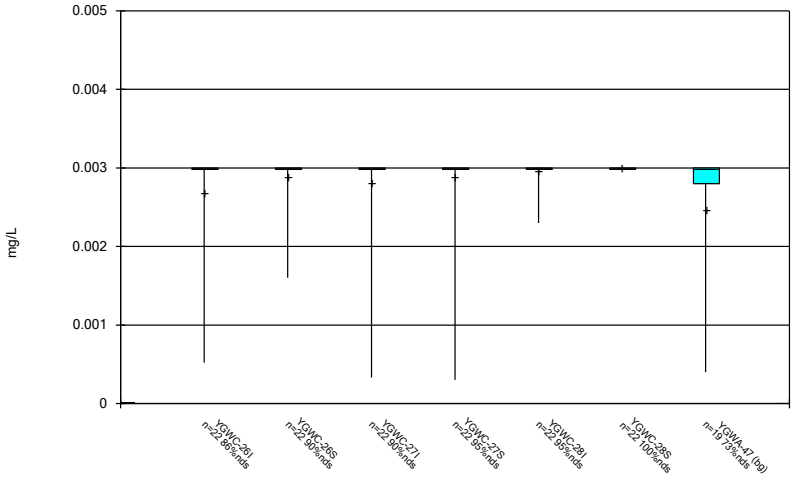
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/7/2024 3:02 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

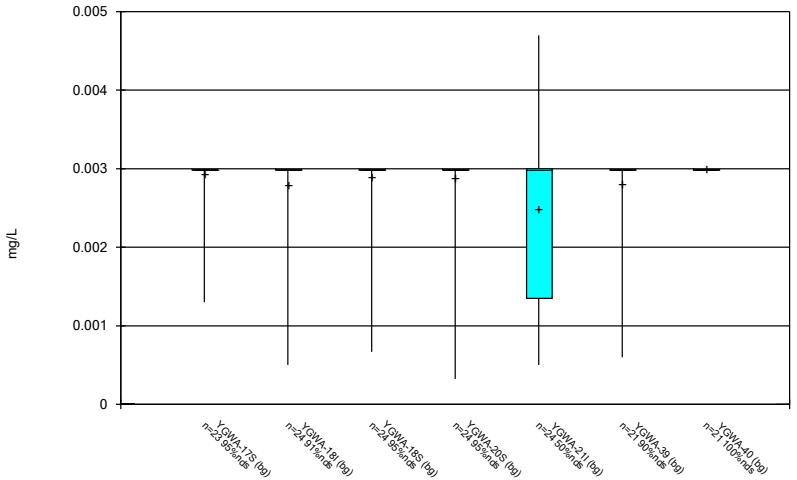
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/7/2024 3:02 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

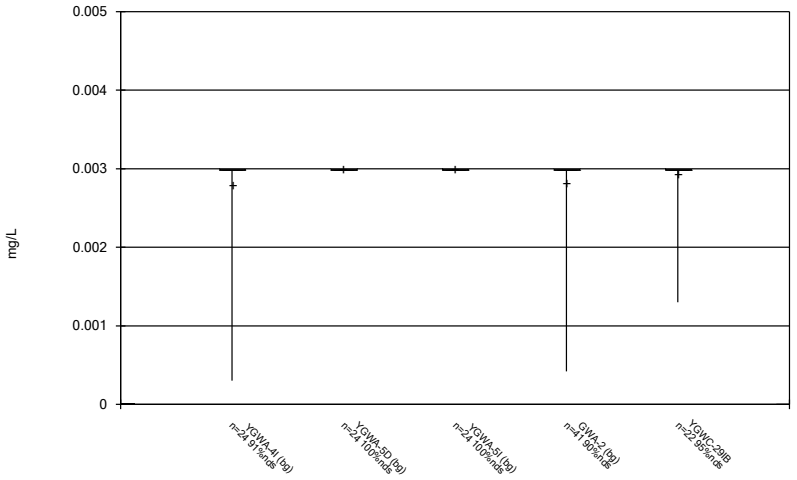
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/7/2024 3:02 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

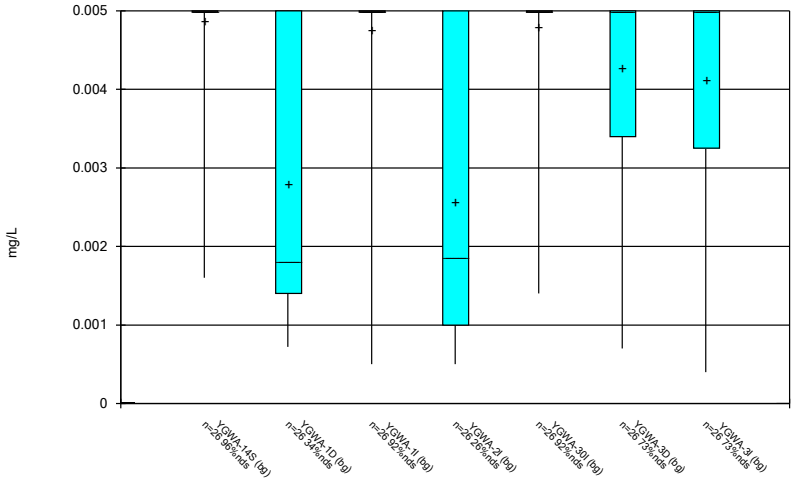
Box & Whiskers Plot



Constituent: Antimony Analysis Run 11/7/2024 3:02 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/7/2024 3:02 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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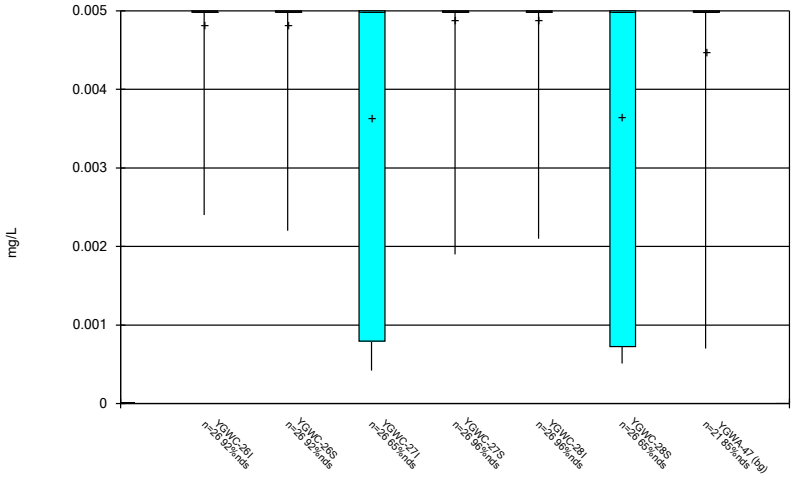
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/7/2024 3:02 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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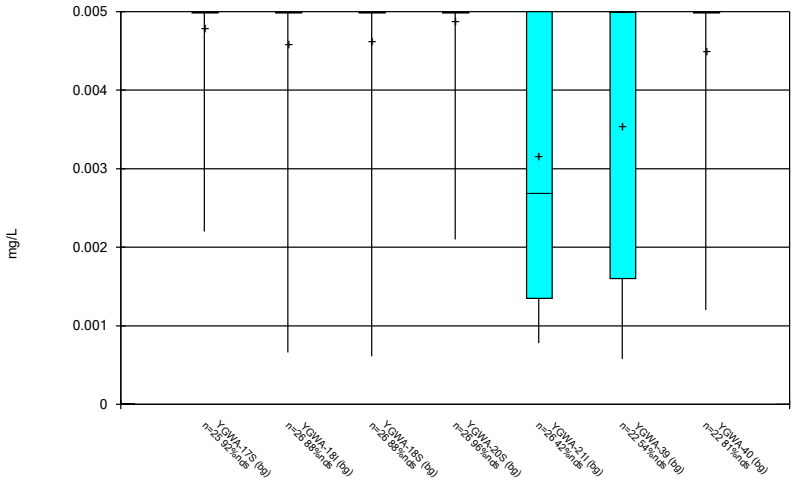
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/7/2024 3:02 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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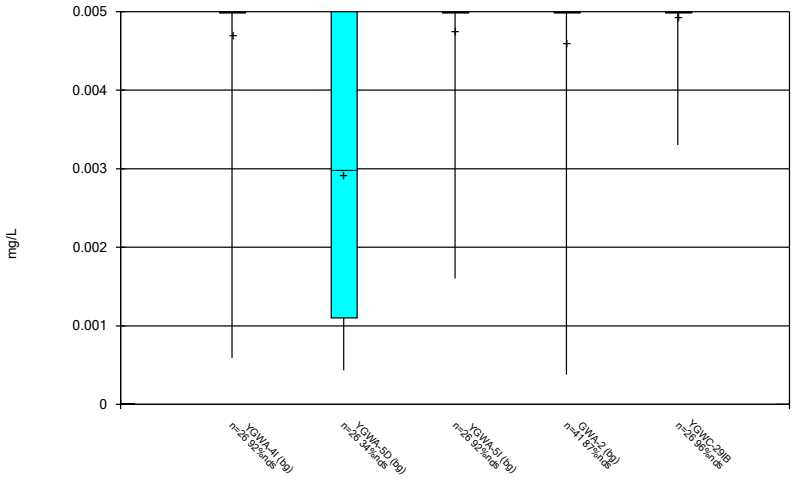
Box & Whiskers Plot



Constituent: Arsenic Analysis Run 11/7/2024 3:02 PM

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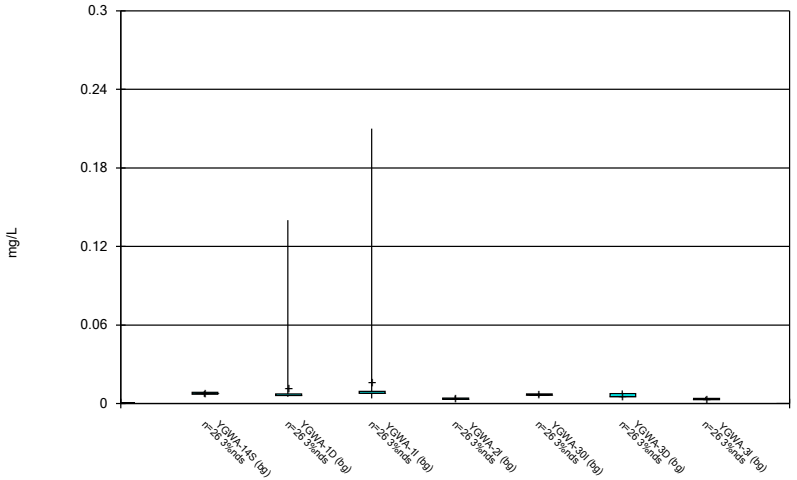
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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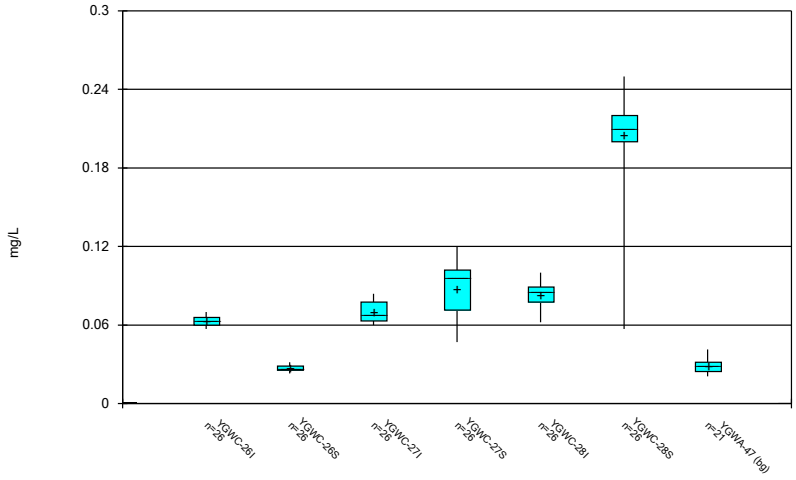
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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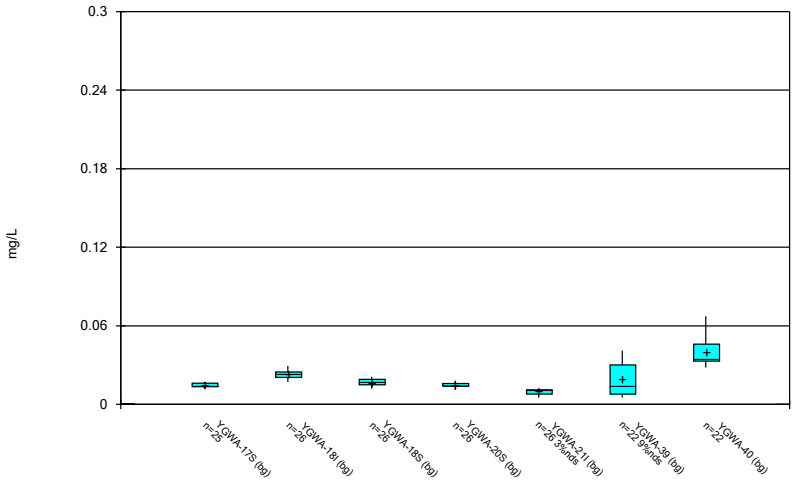
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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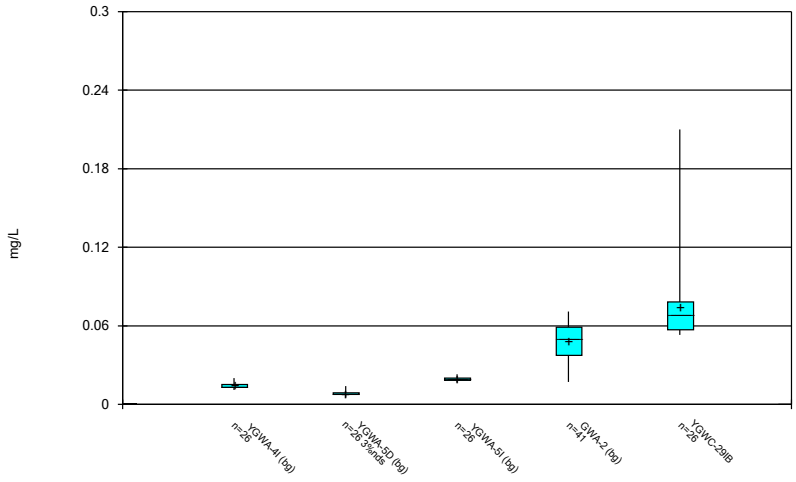
Box & Whiskers Plot



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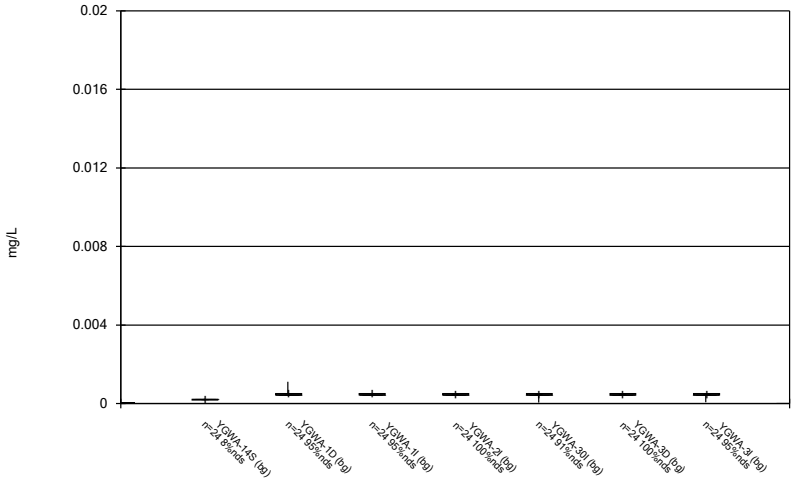
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Beryllium Analysis Run 11/7/2024 3:02 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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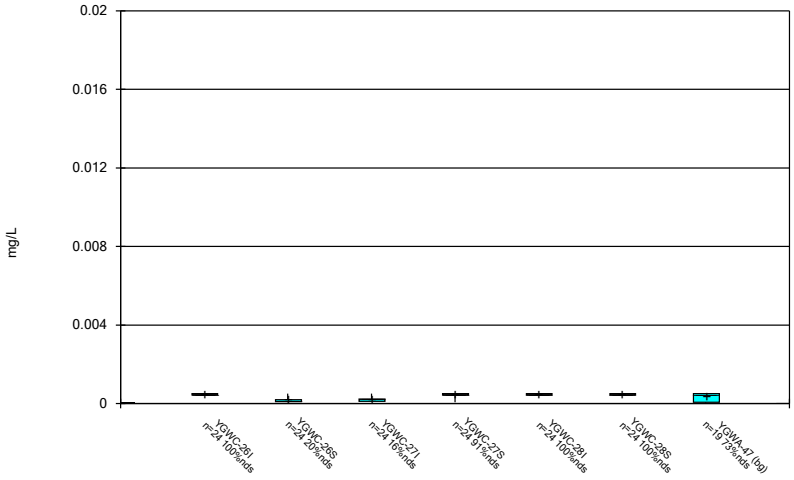
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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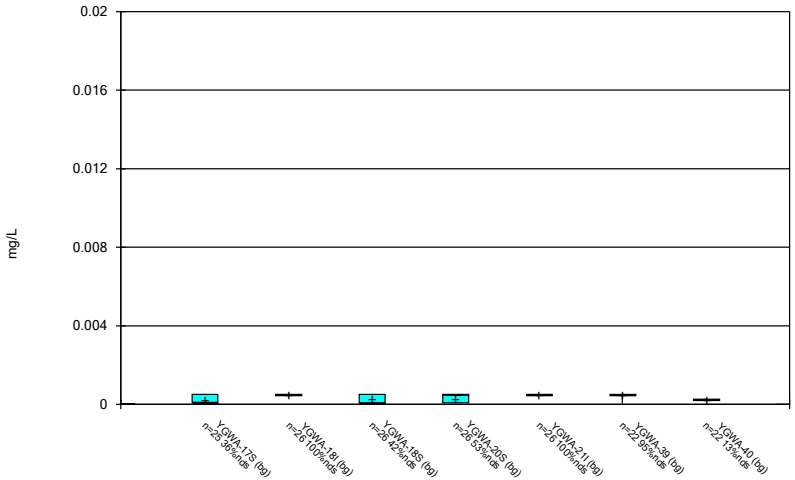
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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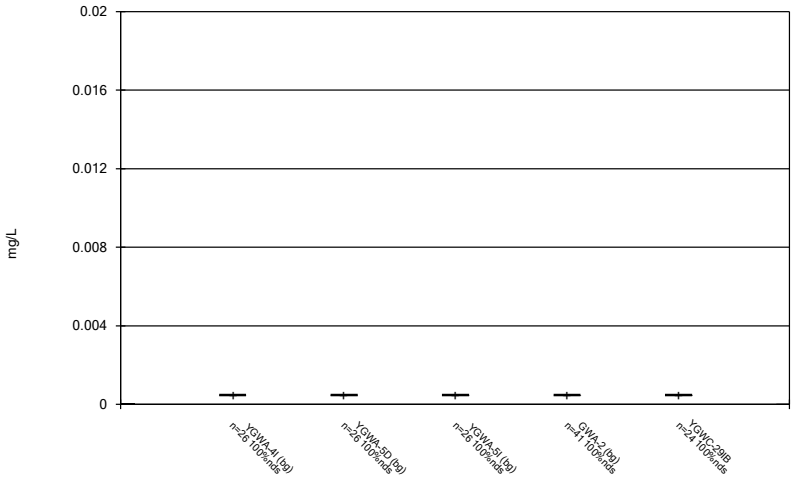
Box & Whiskers Plot



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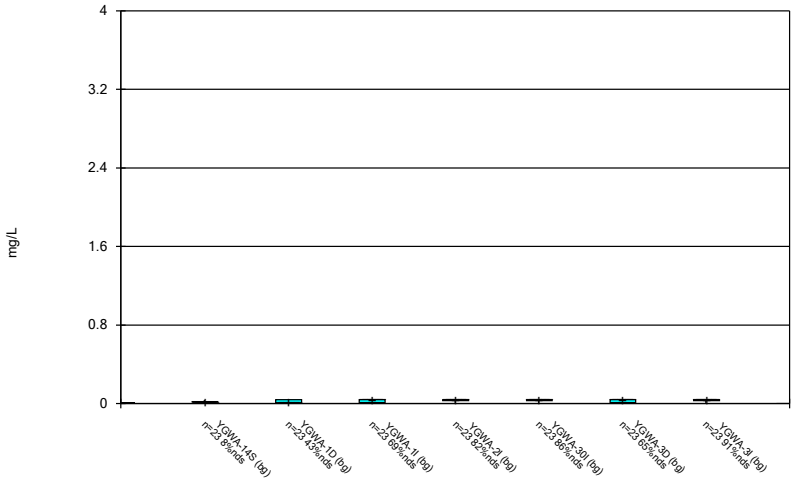
Box & Whiskers Plot



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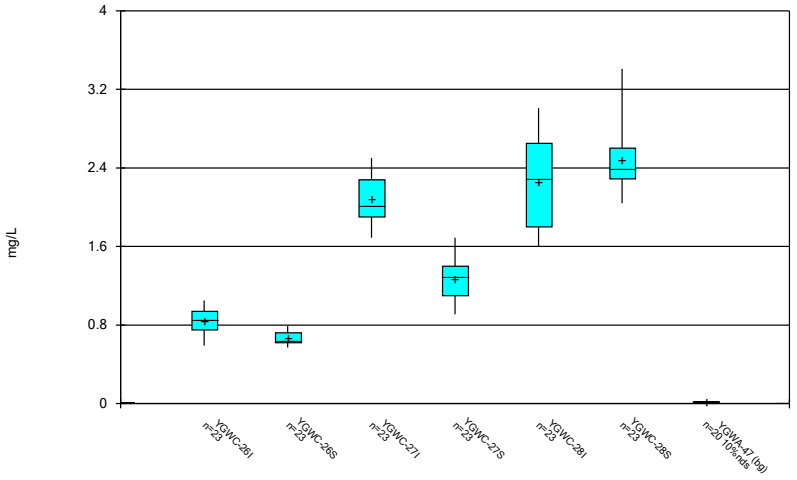
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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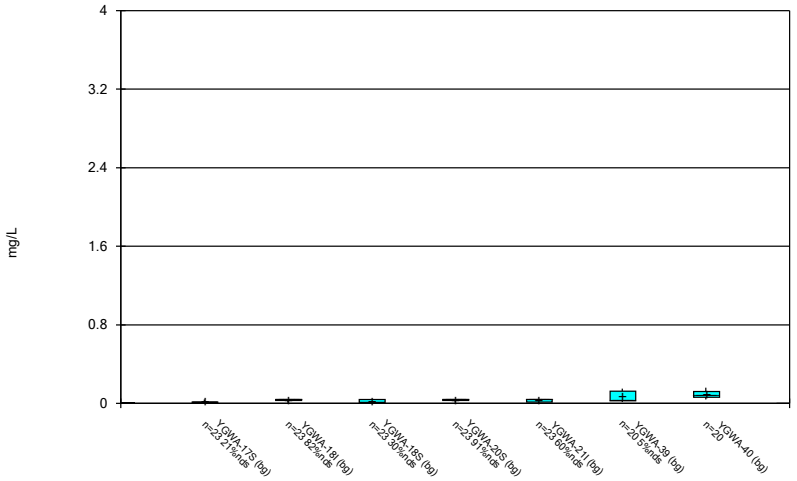
Box & Whiskers Plot



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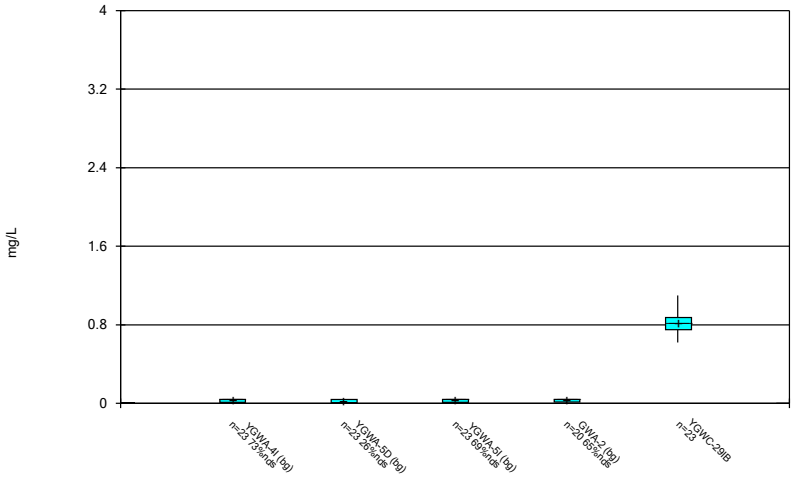
Box & Whiskers Plot



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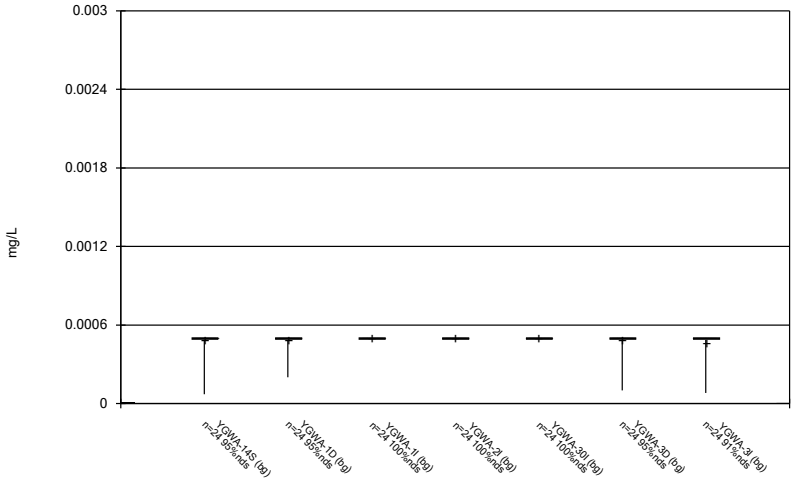
Box & Whiskers Plot



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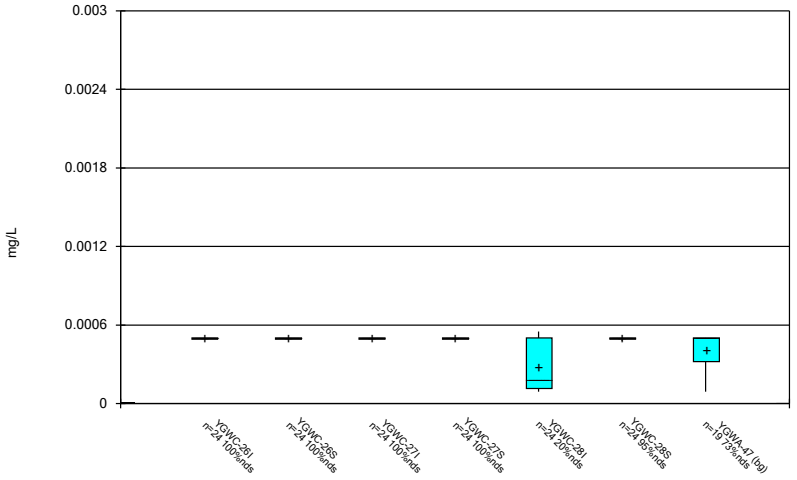
Box & Whiskers Plot



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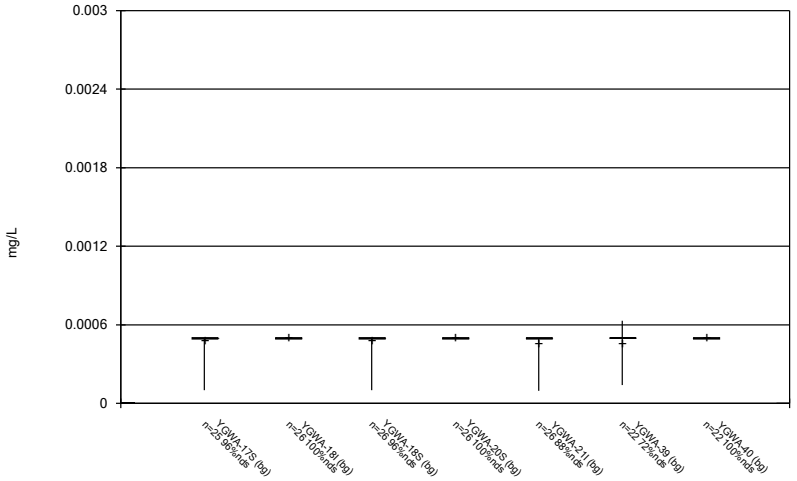
Box & Whiskers Plot



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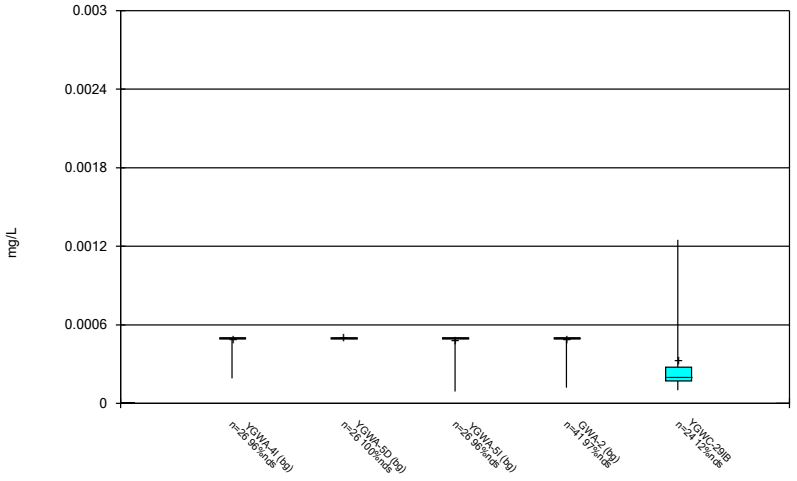
Box & Whiskers Plot



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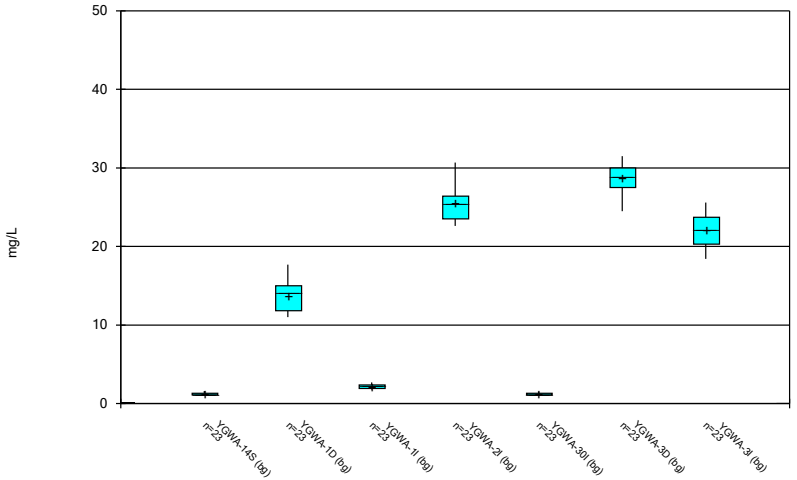

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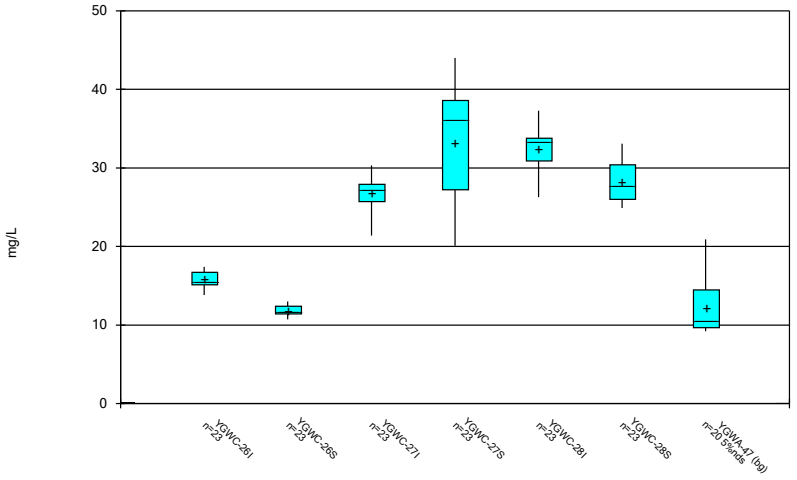
Box & Whiskers Plot



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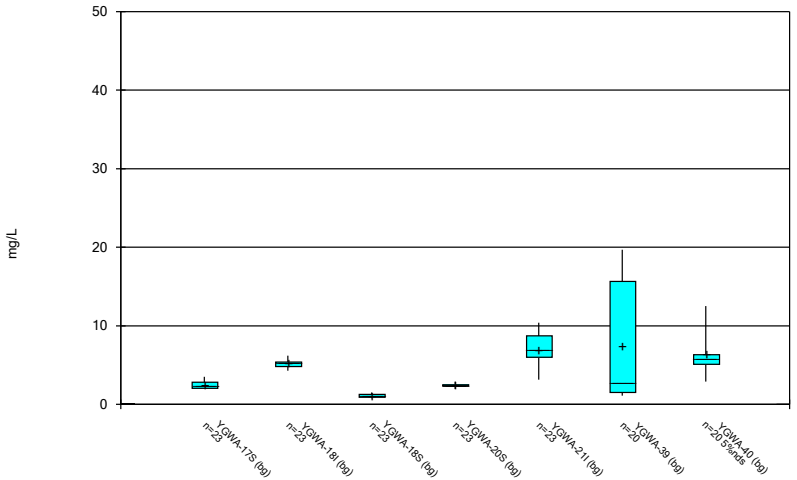
Box & Whiskers Plot



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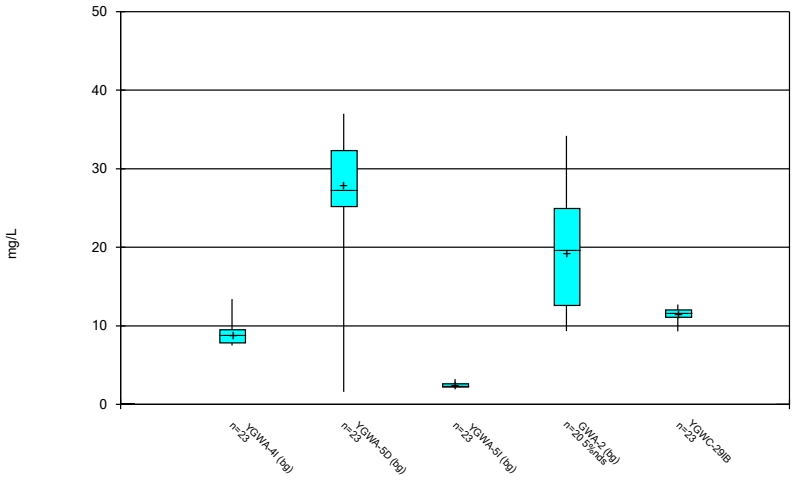
Box & Whiskers Plot



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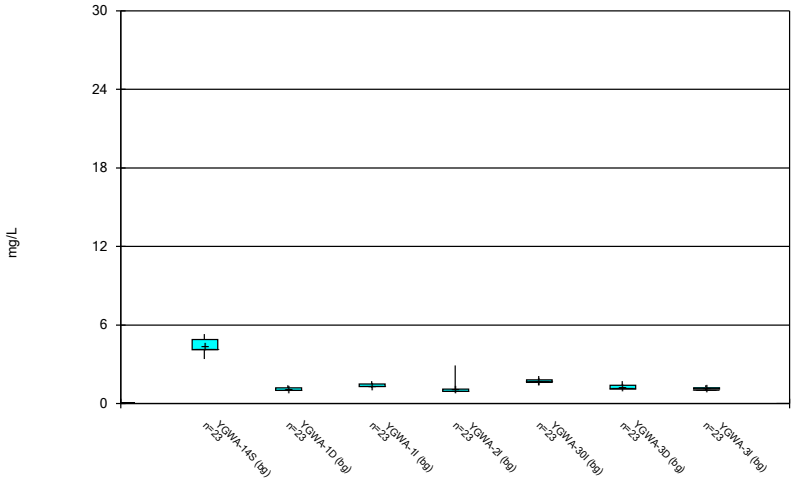
Box & Whiskers Plot



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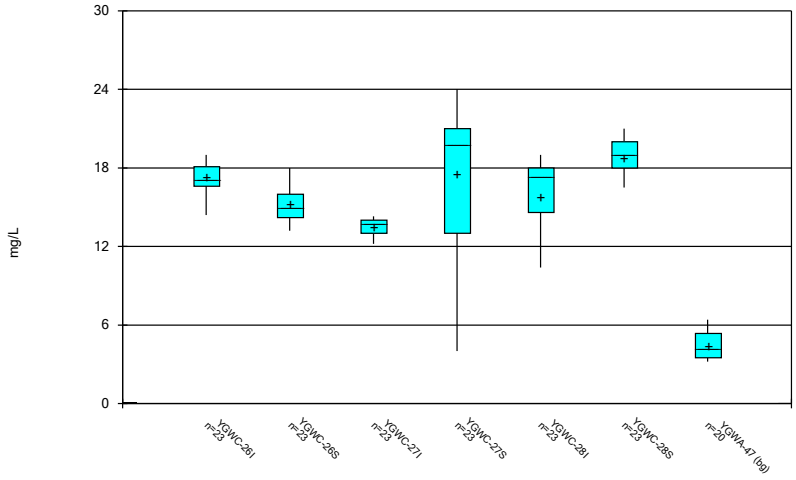
Box & Whiskers Plot



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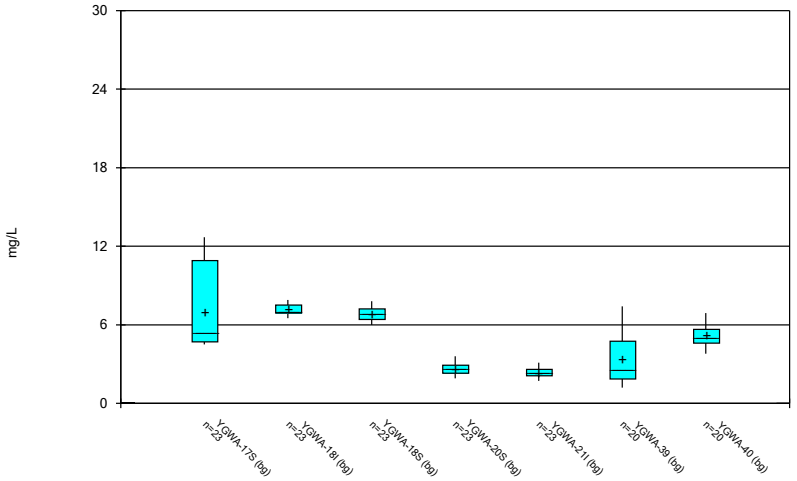
Box & Whiskers Plot



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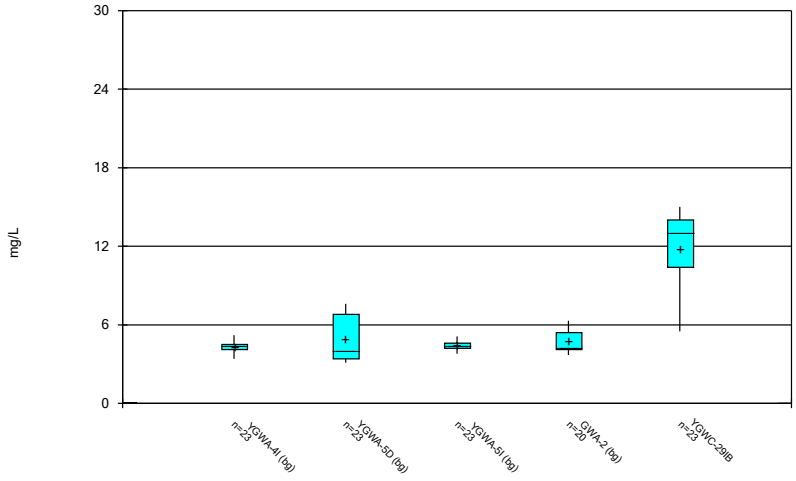
Box & Whiskers Plot



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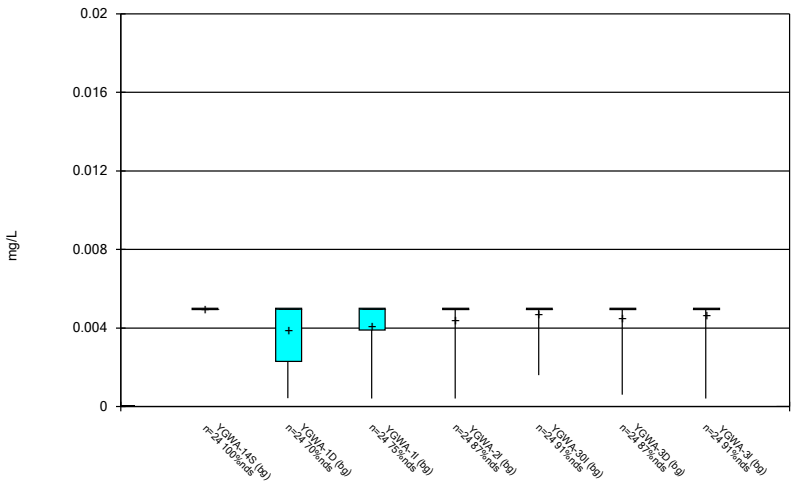
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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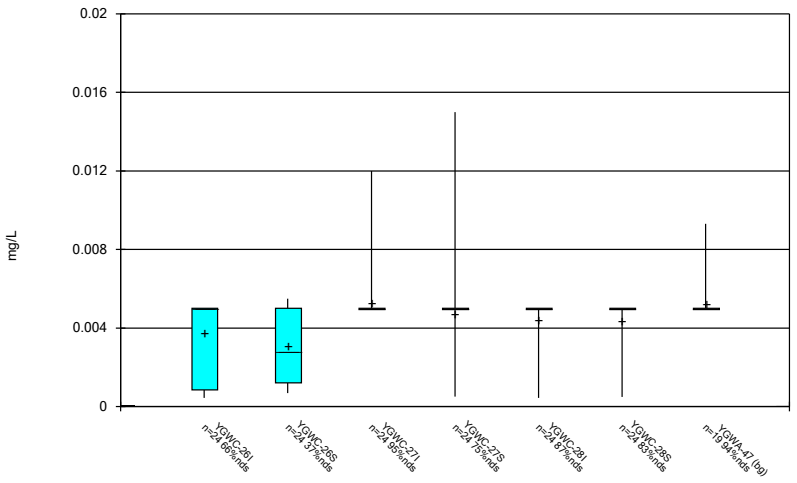
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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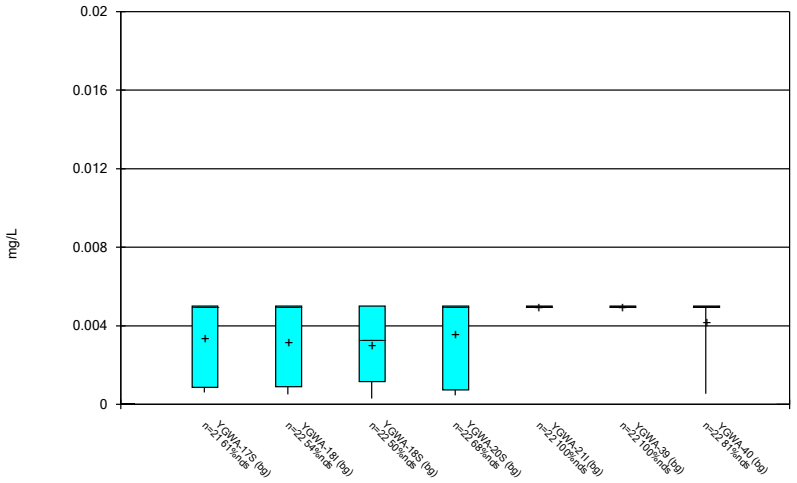
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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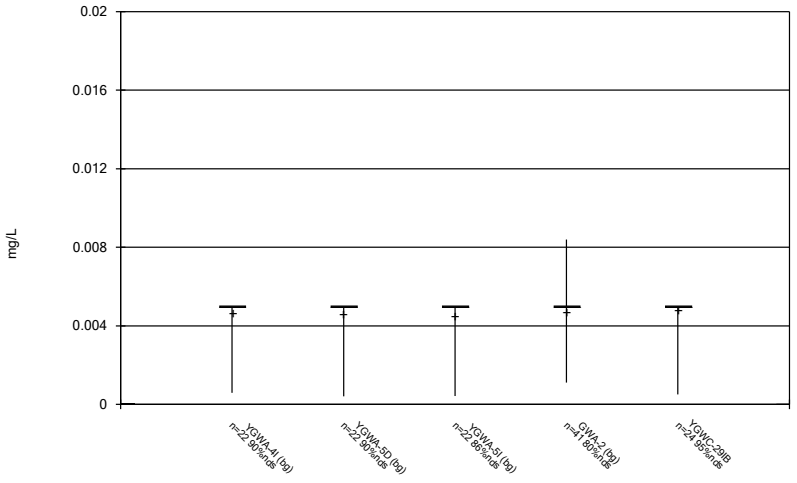
Box & Whiskers Plot



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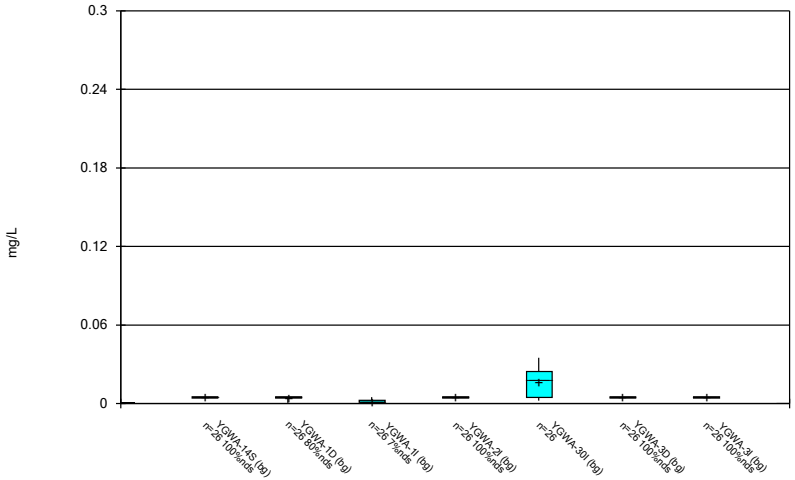
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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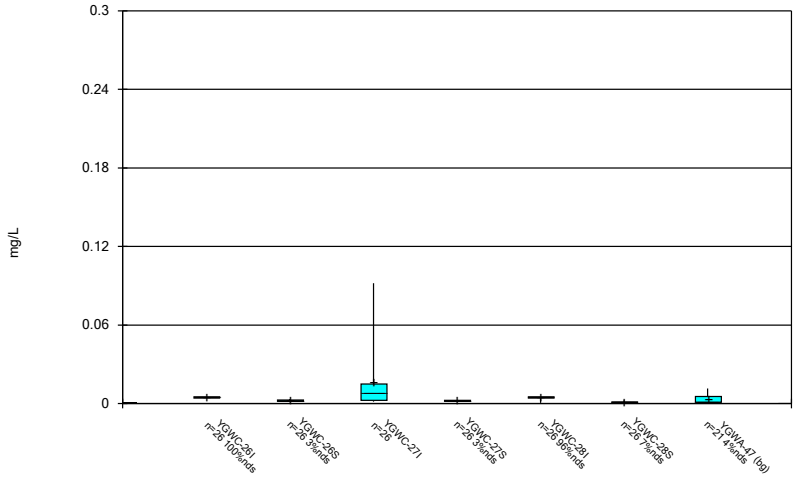
Box & Whiskers Plot



Constituent: Cobalt Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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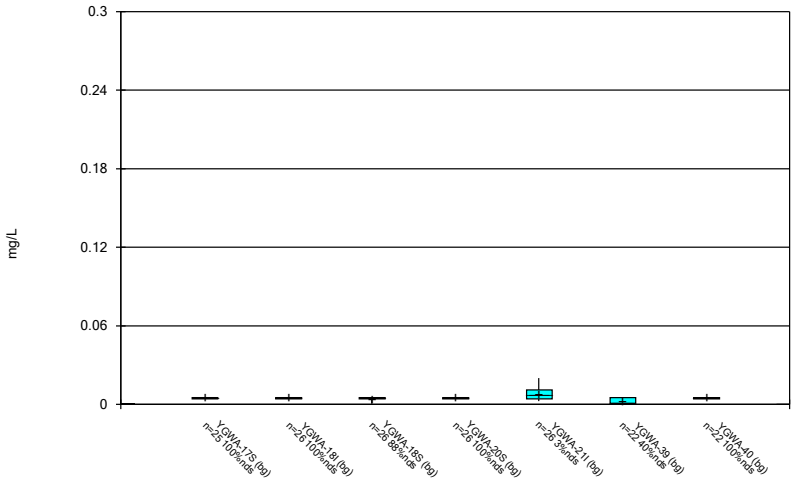
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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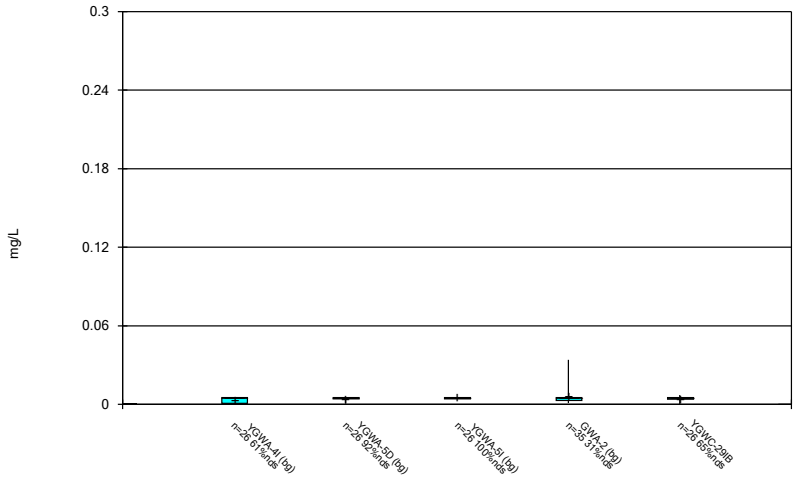
Box & Whiskers Plot



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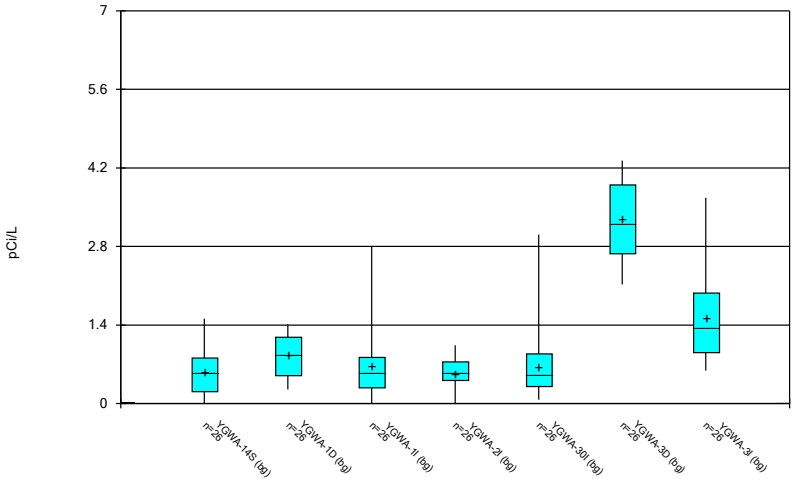
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:03 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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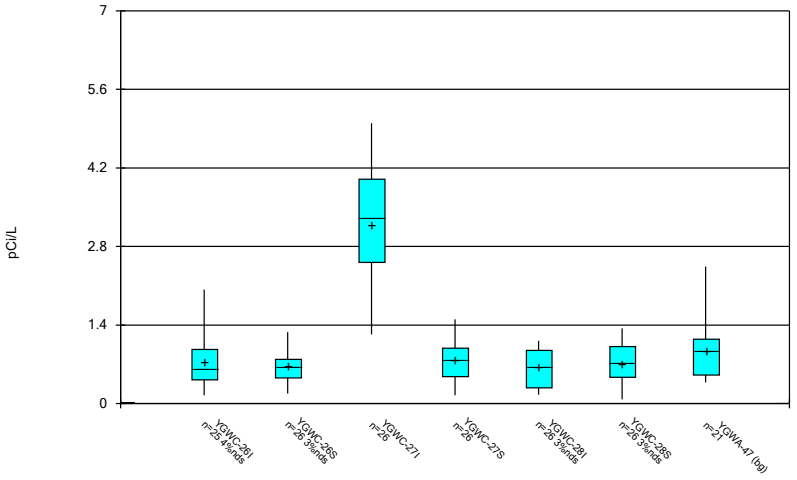
Box & Whiskers Plot



Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:03 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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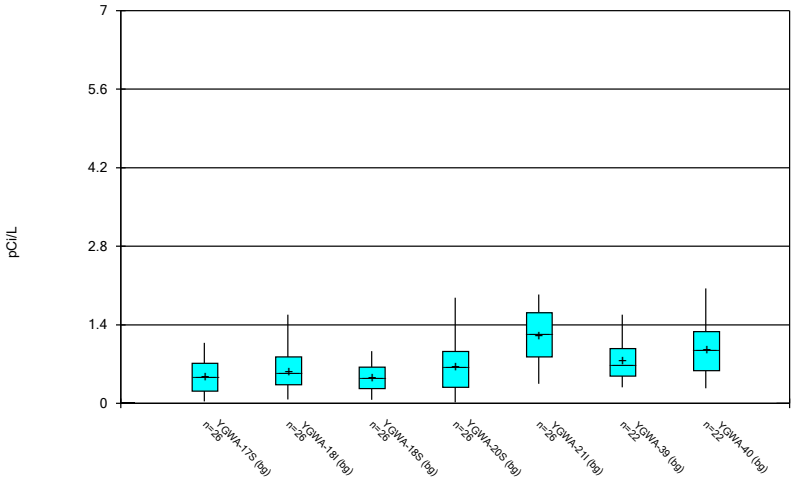
Box & Whiskers Plot



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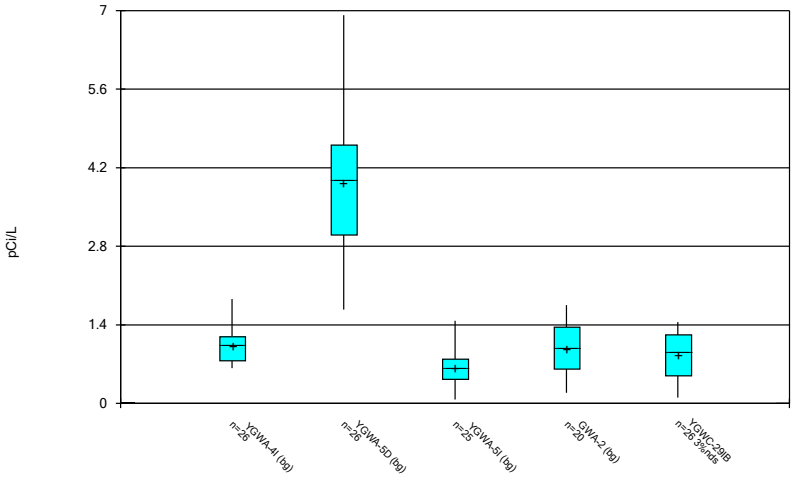
Box & Whiskers Plot



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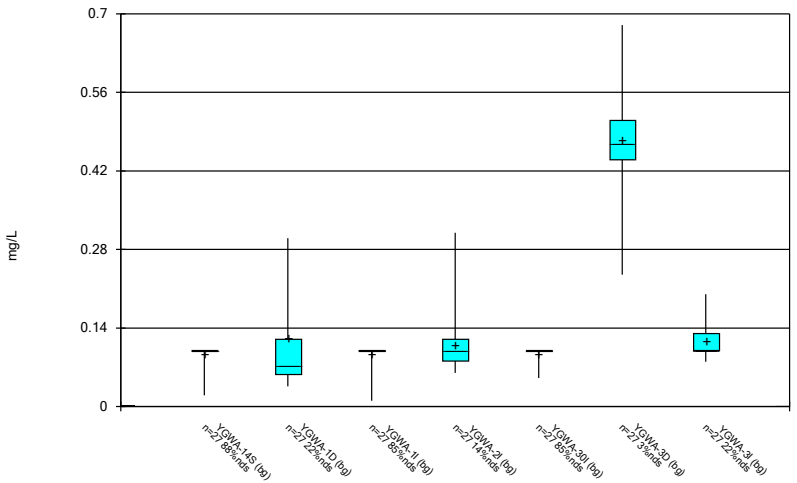
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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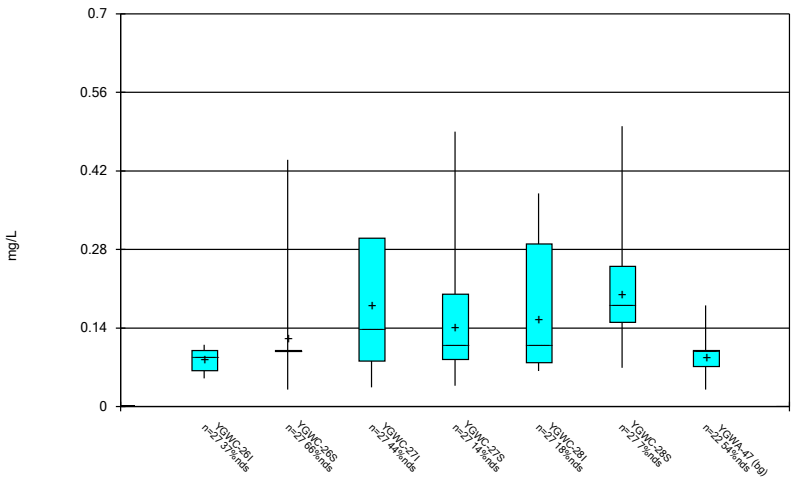
Box & Whiskers Plot



Constituent: Fluoride Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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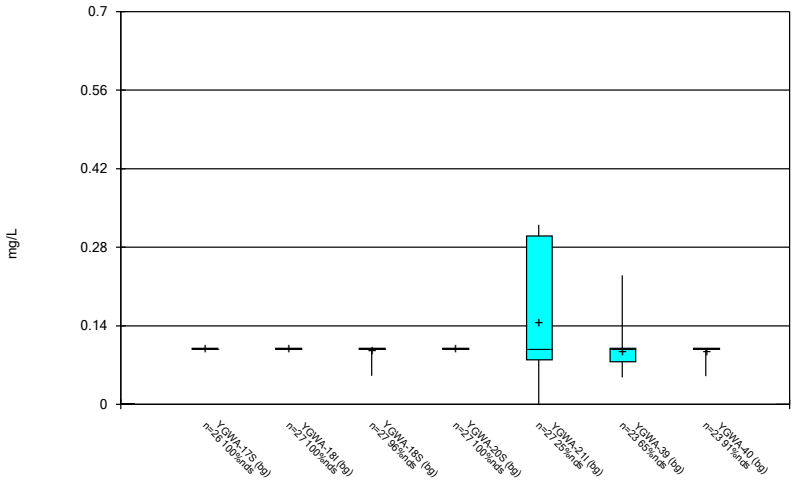
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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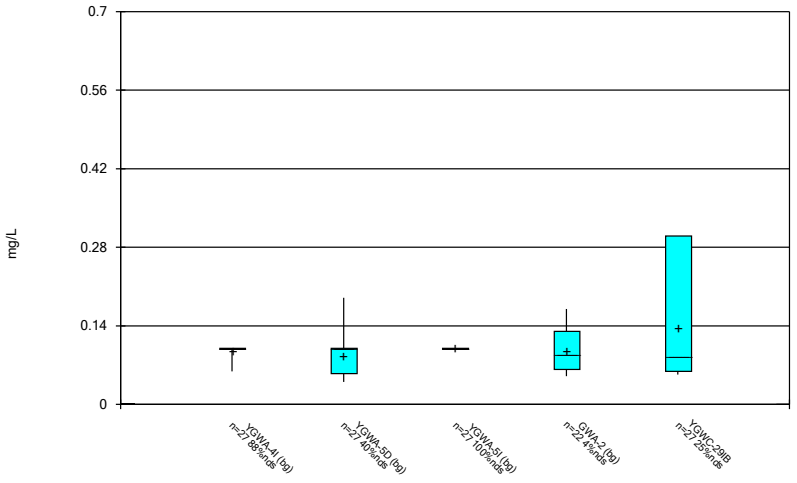
Box & Whiskers Plot



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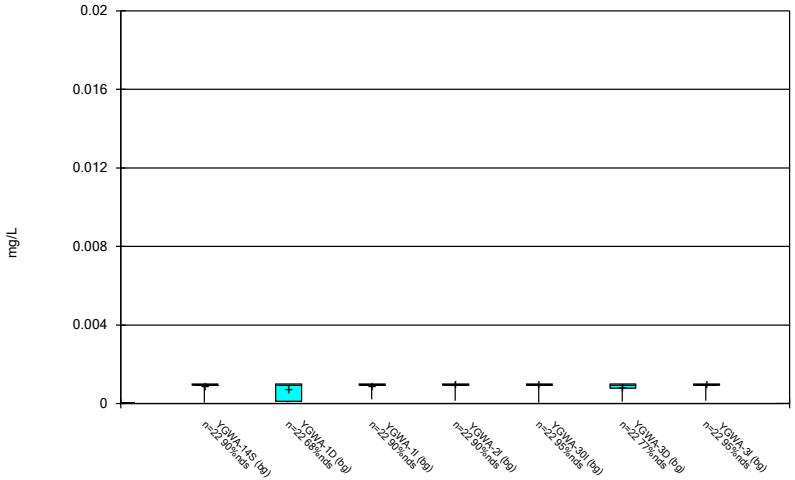
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Lead Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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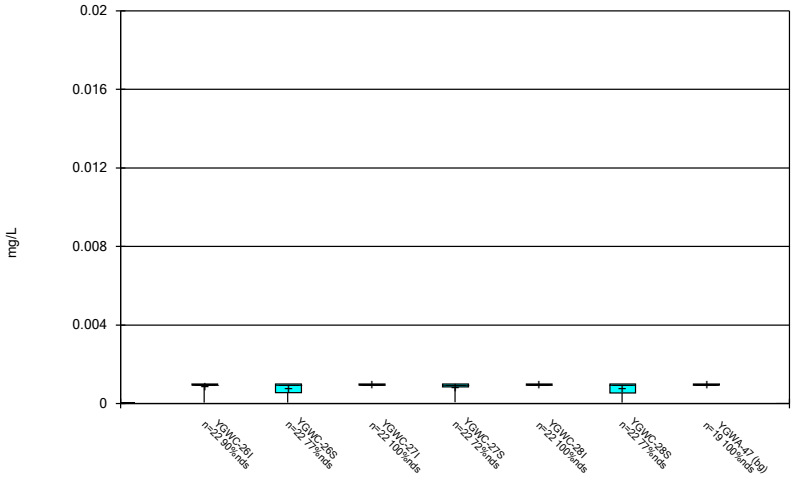
Box & Whiskers Plot



Constituent: Lead Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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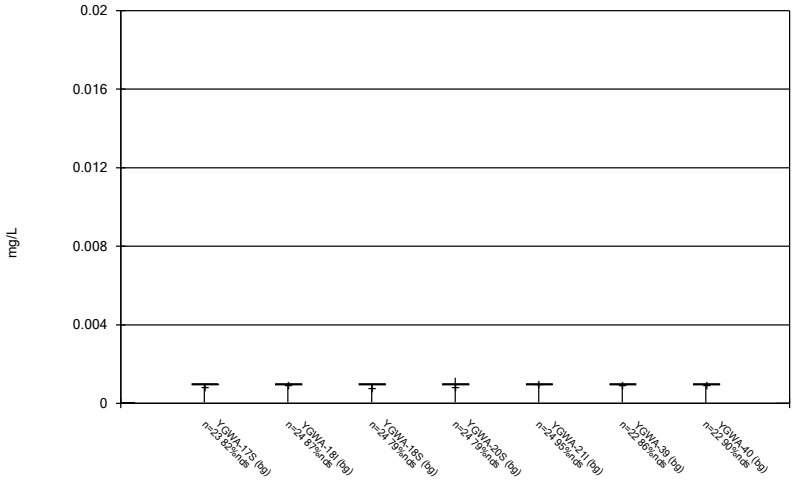
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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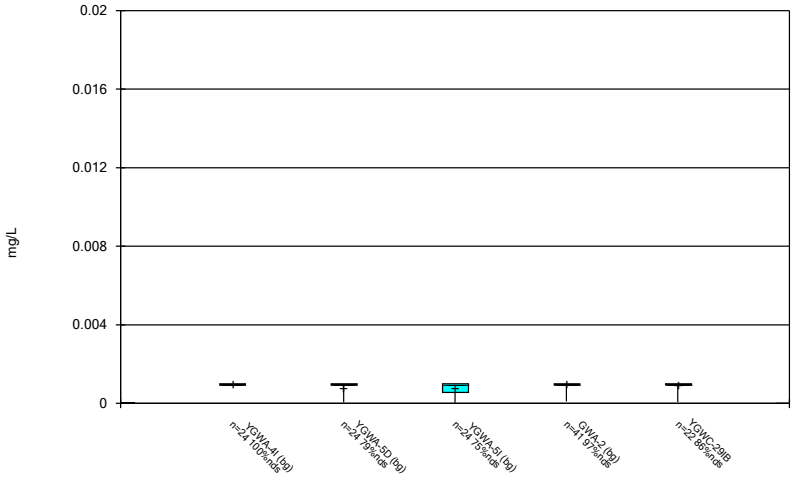

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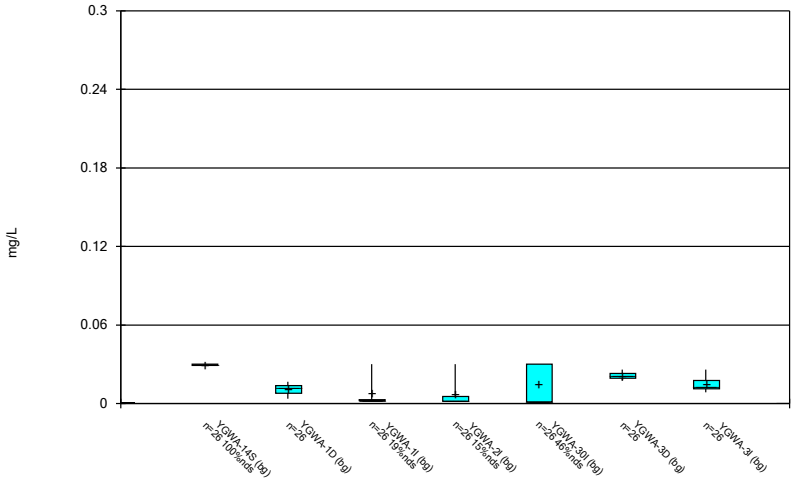
Box & Whiskers Plot



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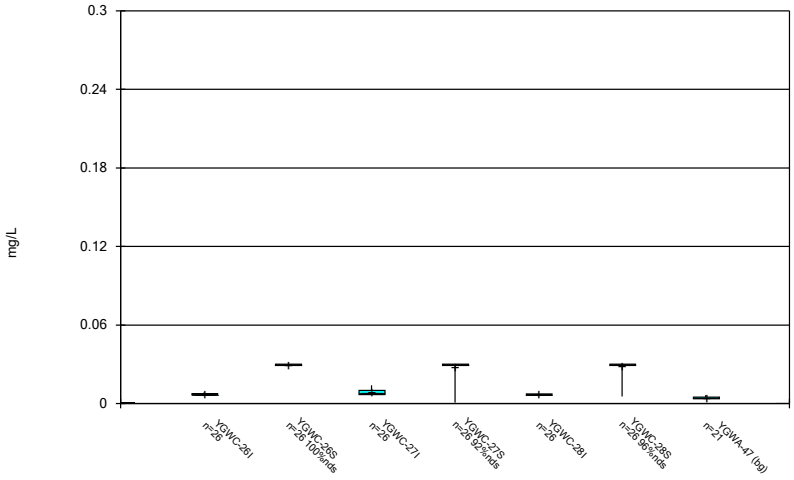
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



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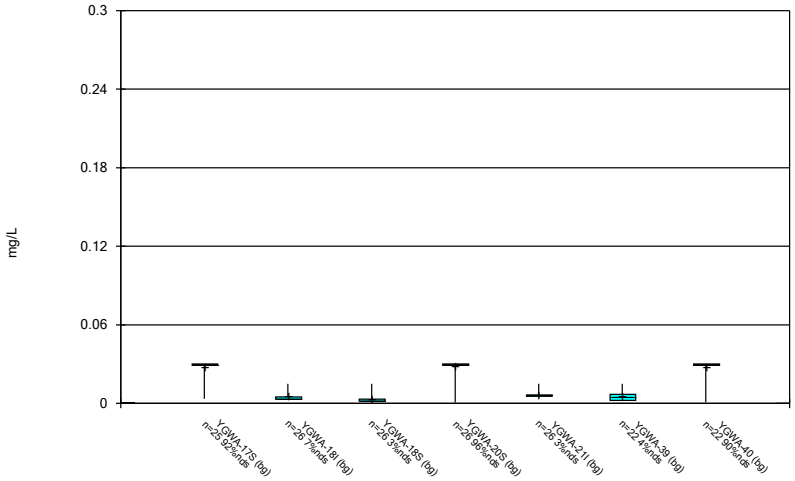
Box & Whiskers Plot



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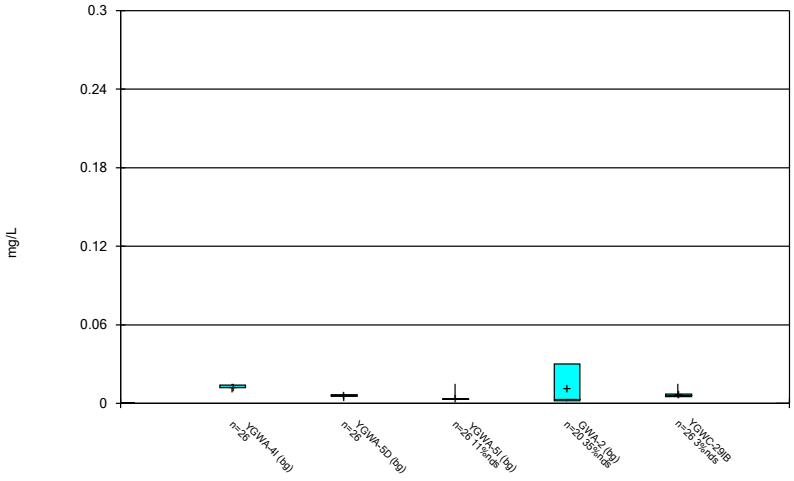
Box & Whiskers Plot



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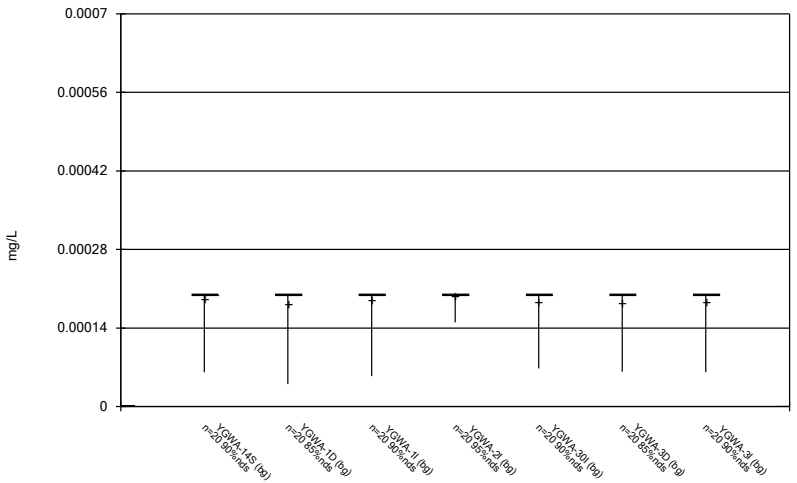
Box & Whiskers Plot



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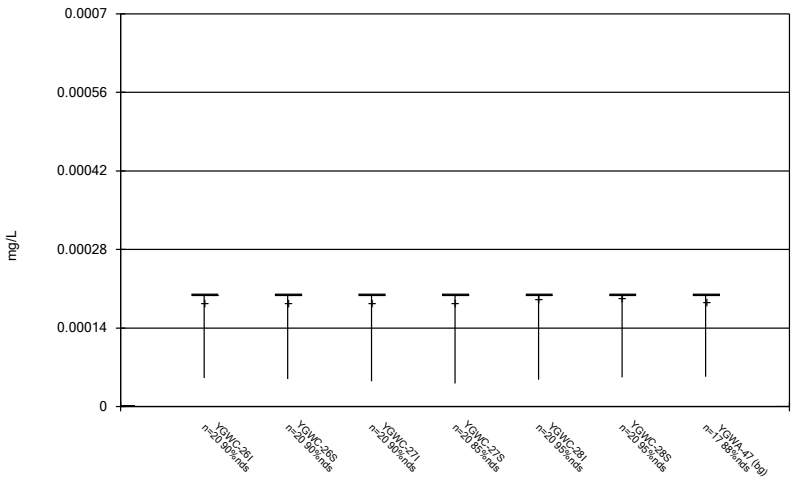
Box & Whiskers Plot



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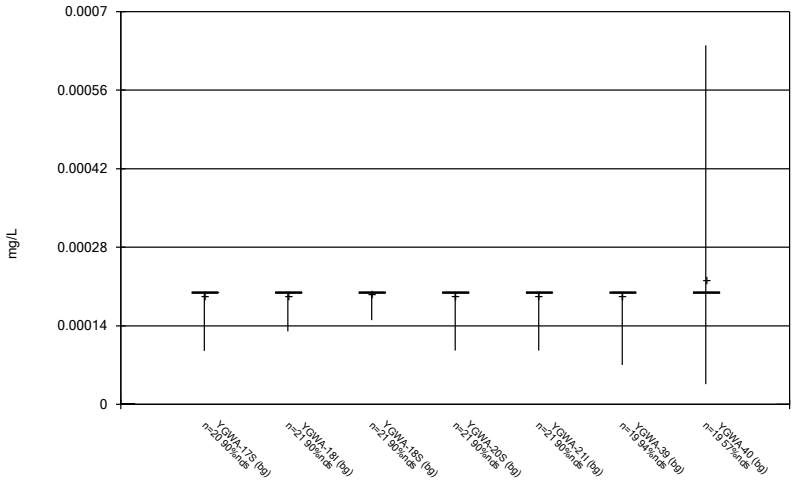
Box & Whiskers Plot



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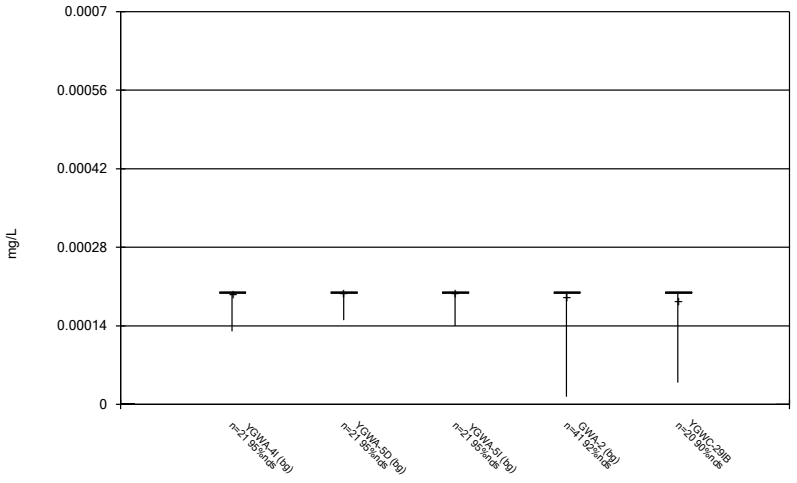
Box & Whiskers Plot



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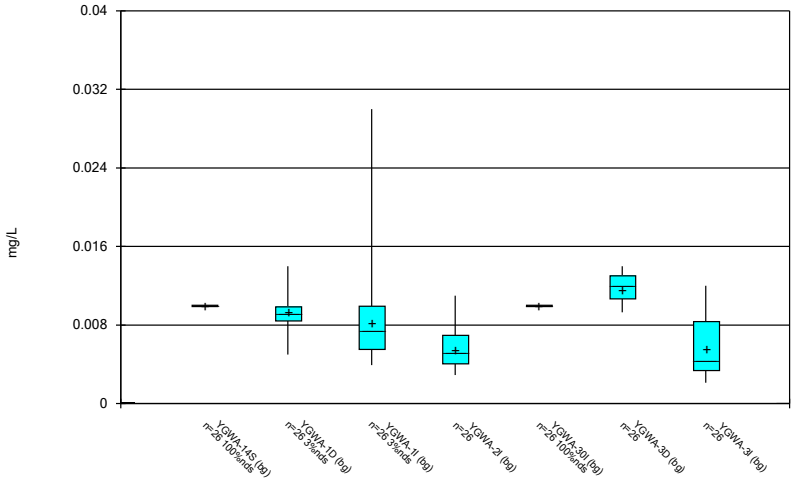
Box & Whiskers Plot



Constituent: Molybdenum Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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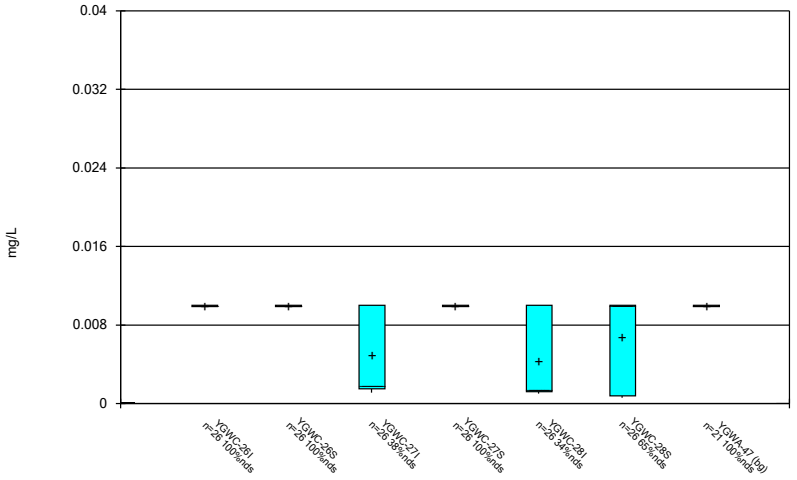
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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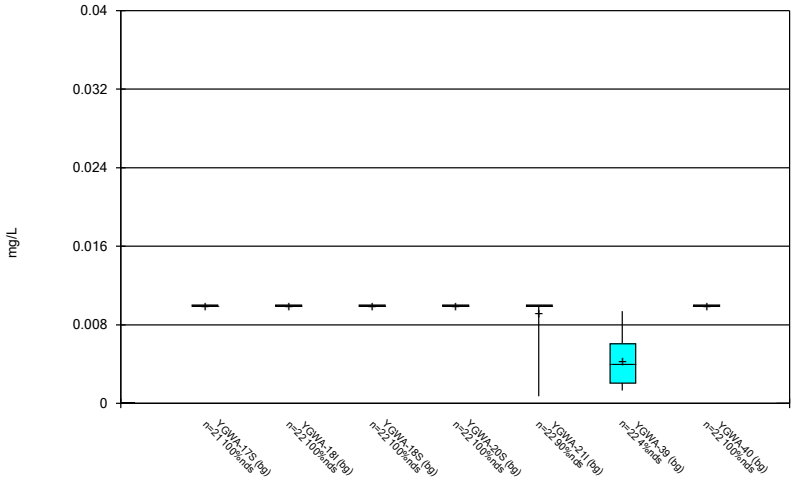
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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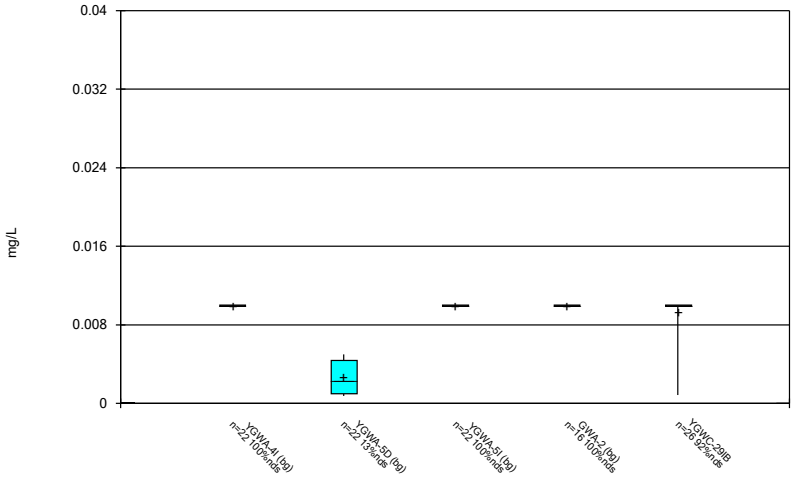
Box & Whiskers Plot



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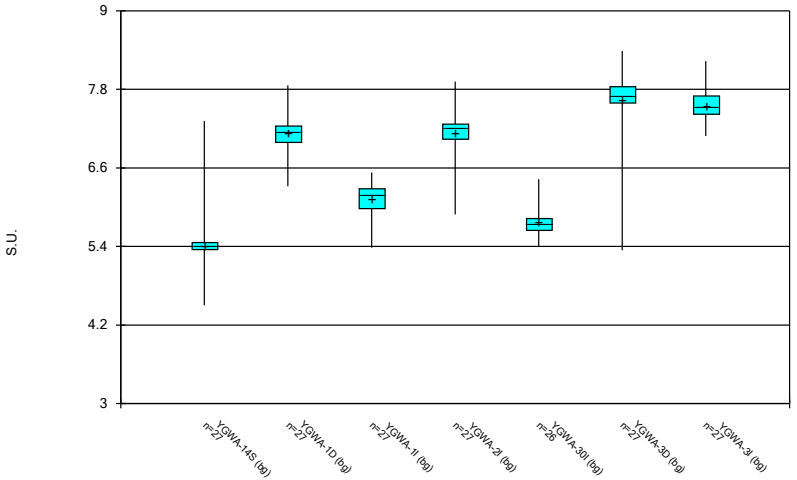
Box & Whiskers Plot



Constituent: pH Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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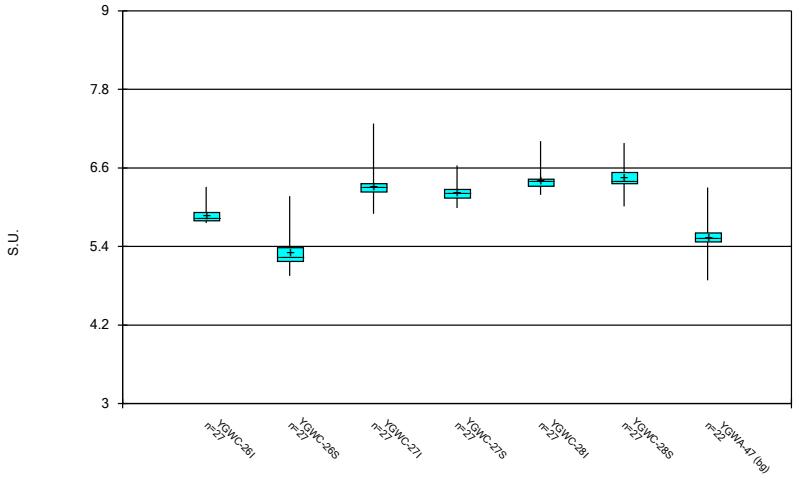
Box & Whiskers Plot



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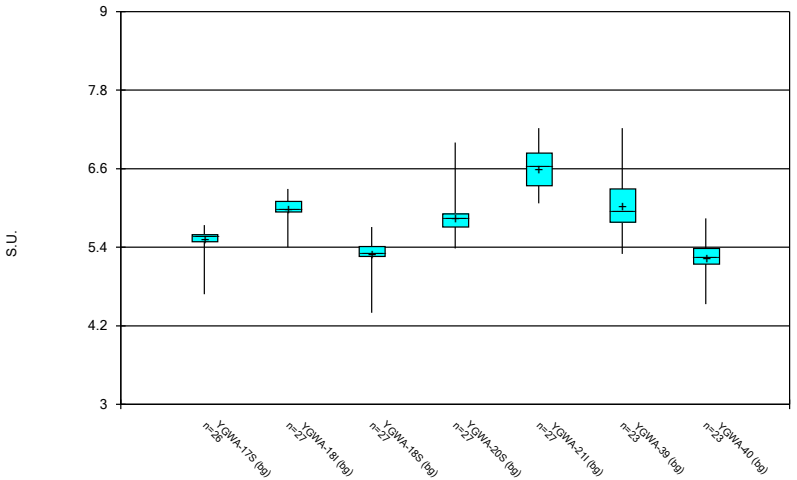

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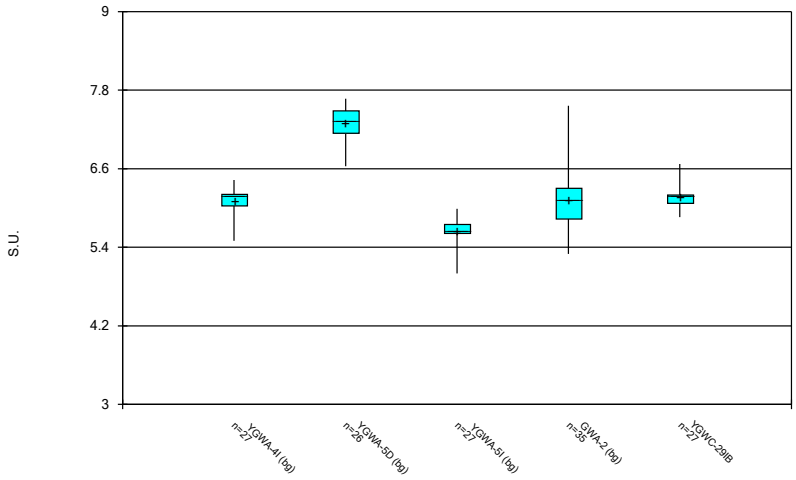

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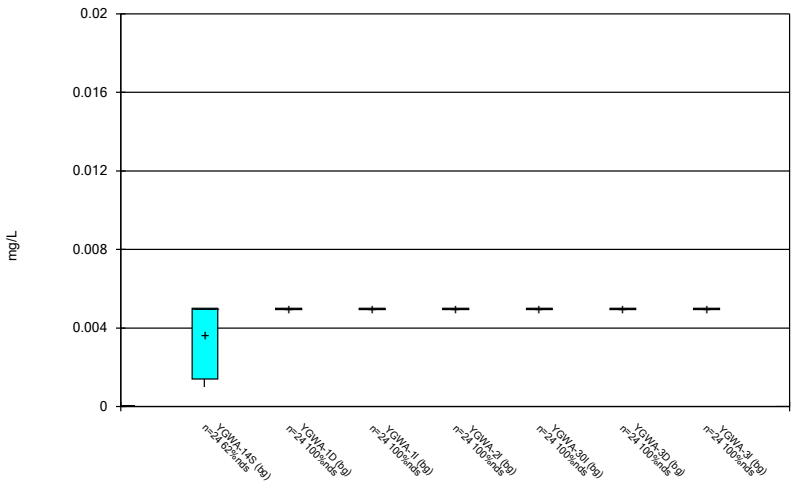

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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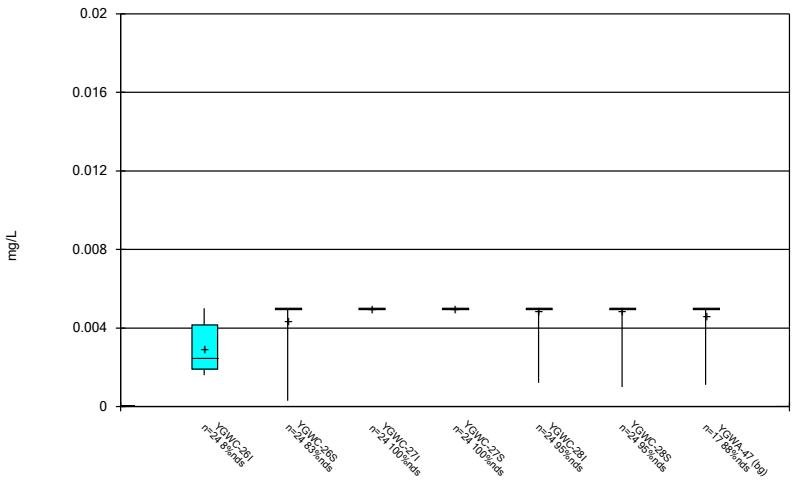
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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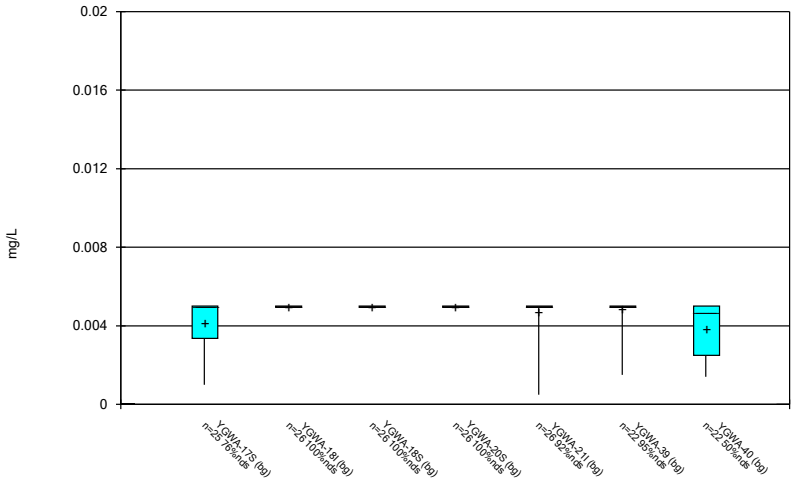
Box & Whiskers Plot



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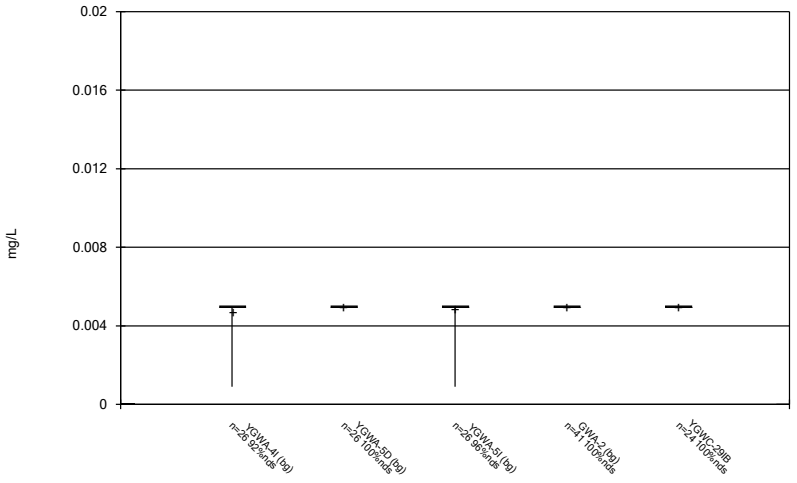

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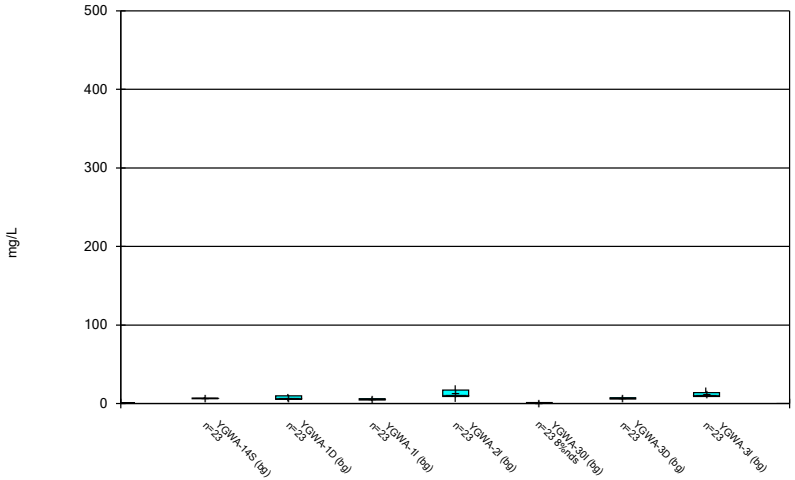

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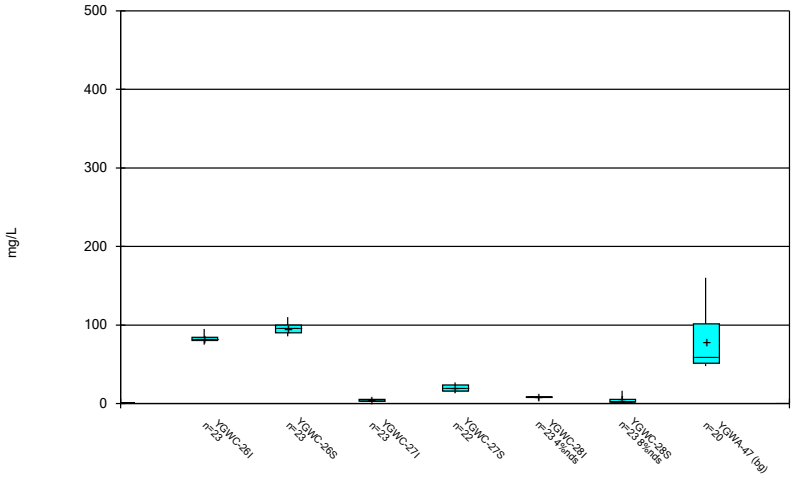
Box & Whiskers Plot



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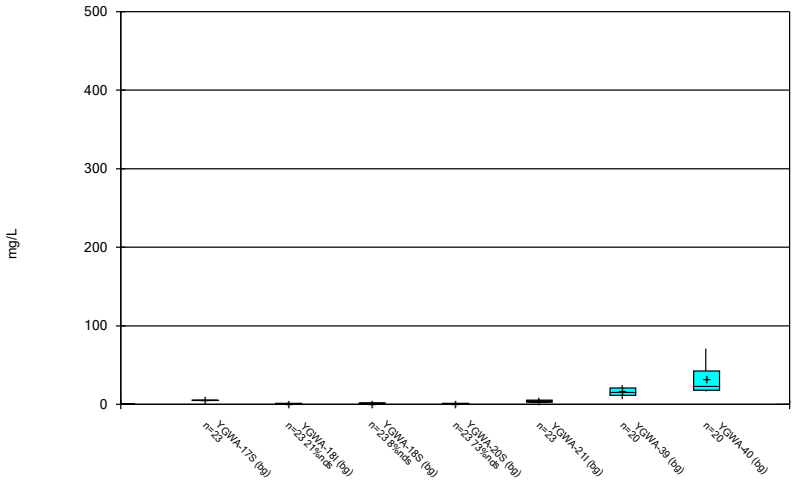
Box & Whiskers Plot



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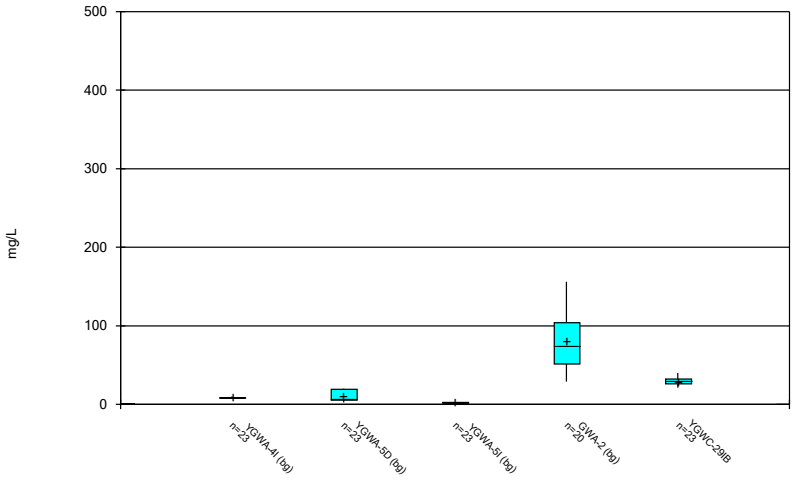
Box & Whiskers Plot



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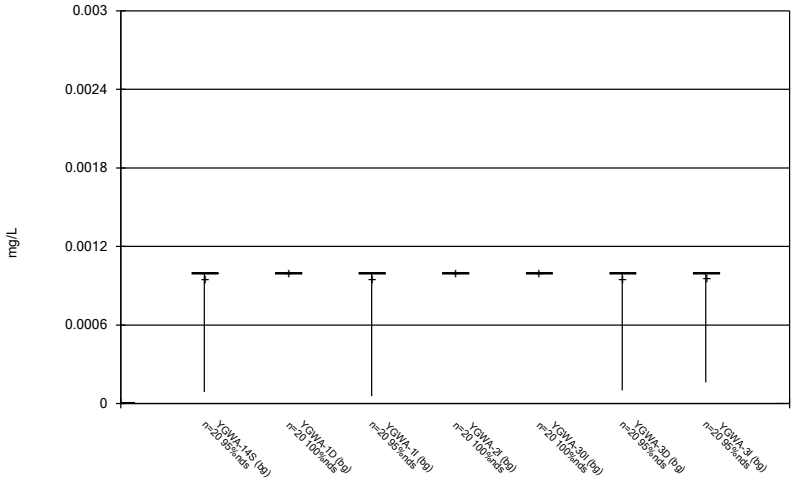
Box & Whiskers Plot



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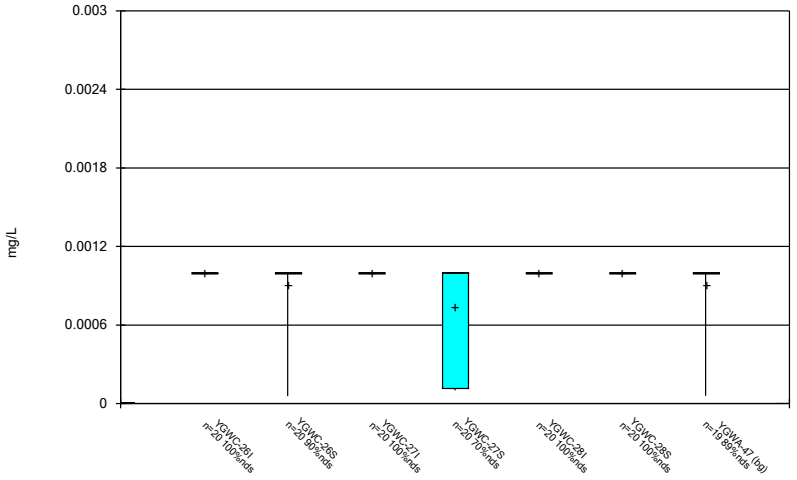
Box & Whiskers Plot



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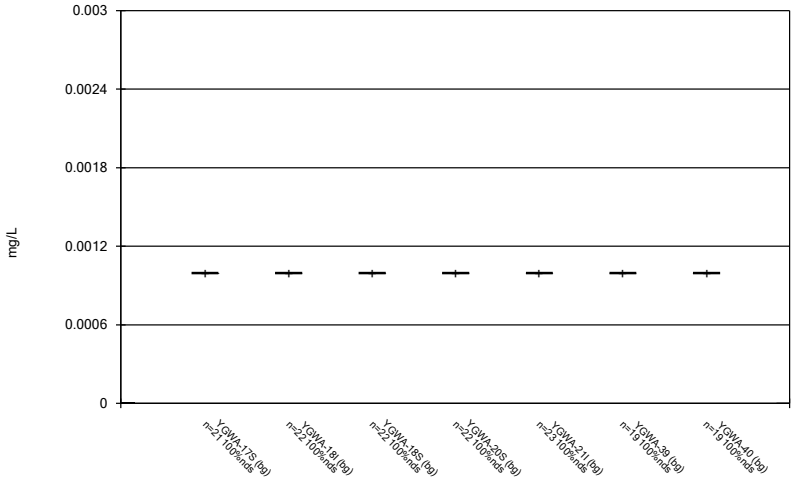
Box & Whiskers Plot



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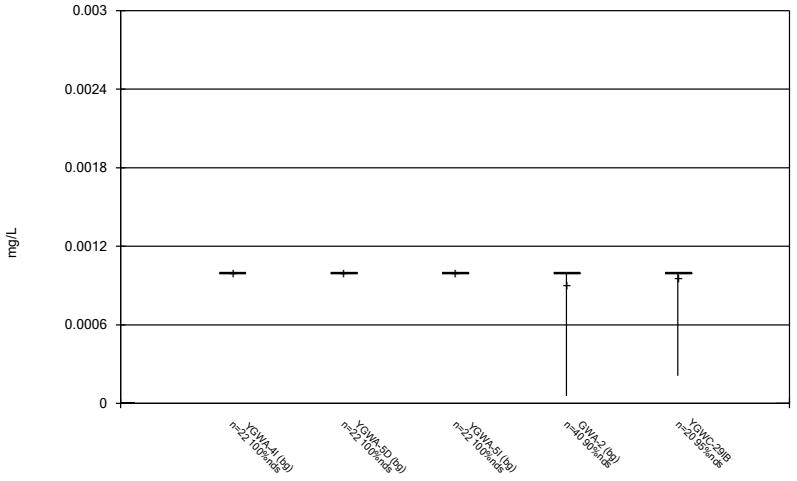
Box & Whiskers Plot



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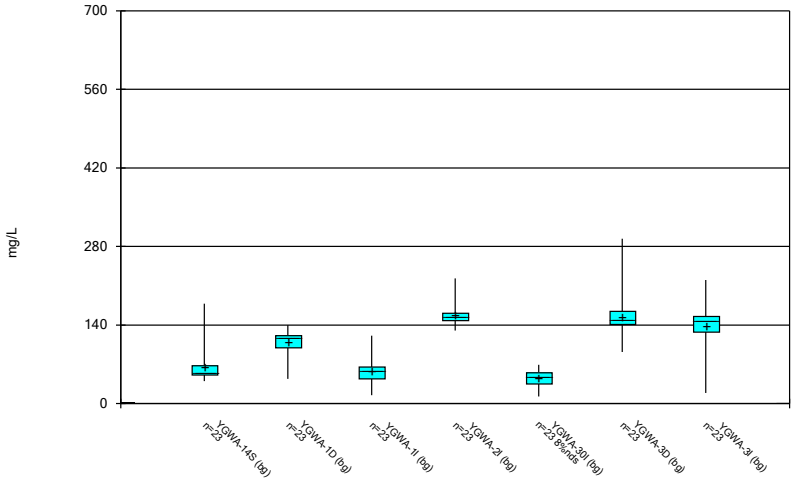
Box & Whiskers Plot

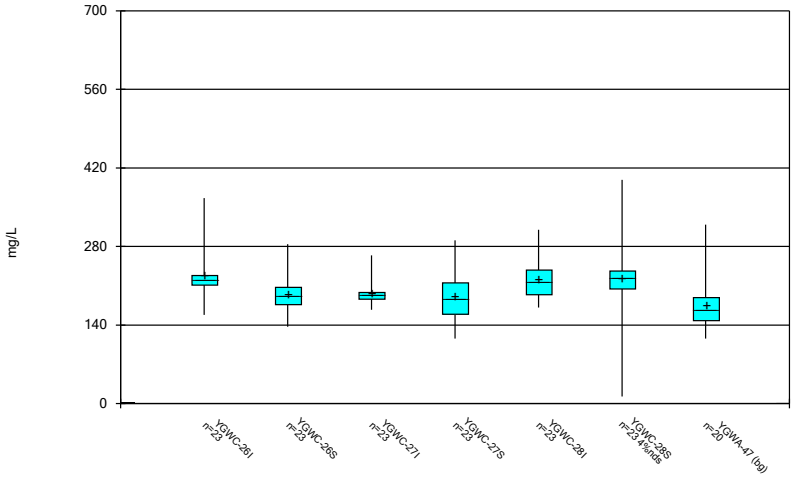


Constituent: Total Dissolved Solids Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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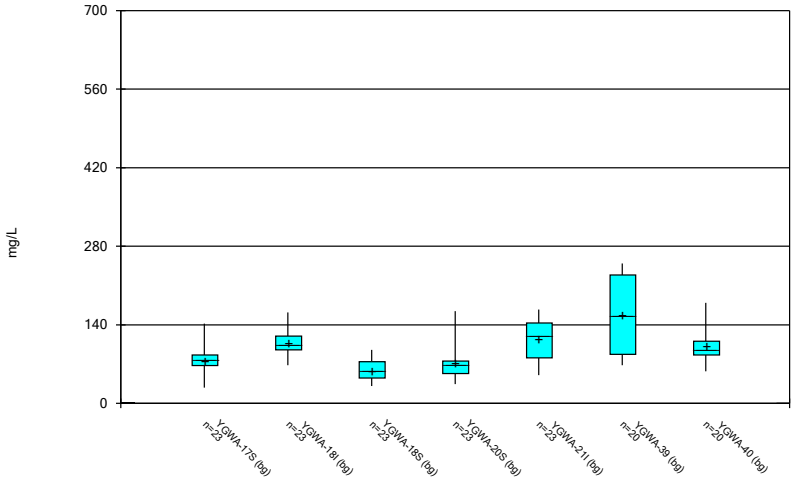
Box & Whiskers Plot



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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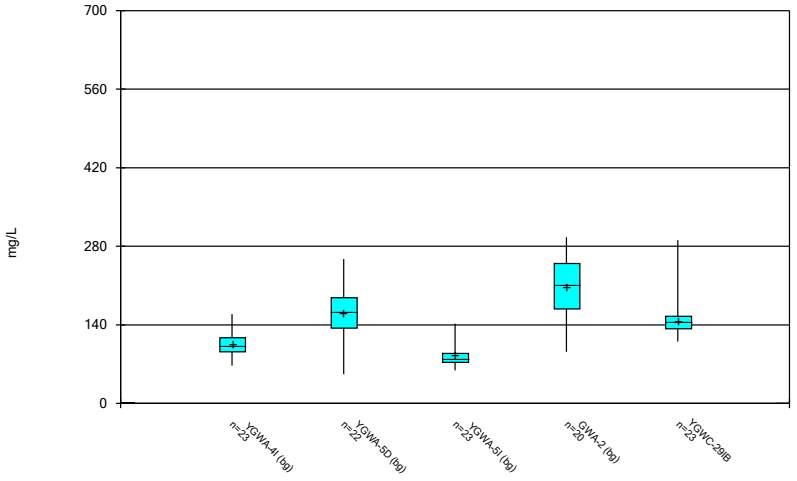
Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 11/7/2024 3:03 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 10/29/2024, 8:51 AM

	GWA-2 Cobalt (mg/L)	YGWC-26I Combined Radium 226 + 228 (pCi/L)	YGWC-27S Sulfate (mg/L)	YGWA-5D Total Dissolved Solids (mg/L)
6/8/2016		6.68 (o)		
8/26/2020	0.2 (O)			
9/22/2020	0.16 (O)			
3/2/2021	0.21 (O)			
3/3/2021			451 (o)	
8/20/2021	0.074 (O)			
2/8/2022	0.072 (O)			
8/30/2022	0.075 (O)			
2/20/2024				639 (o)

Tukey's Outlier Test - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:10 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Barium (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**0.14,0.21,0.0671,0.0656,0.0598,0.061,0.061,0.061,**	**NP**	**NaN**	**495**	**0.01707**	**0.01723**	**normal**	**ShapiroWilk**
Boron (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**0.13,0.13,0.13,0.14,0.15,0.15,0.156,0.146,0.16**	**NP**	**NaN**	**425**	**0.03251**	**0.02478**	**normal**	**ShapiroWilk**
Combined Radium 226 + 228 (pCi/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**3.82,4.24,3.92,3.79,4.33,4.2,3.87,3.96,3.96,4.14,**	**NP**	**NaN**	**474**	**1.099**	**1.049**	**normal**	**ShapiroWilk**
Molybdenum (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**0.03,0.0039,0.0039,0.0039,0.004,0.004,0.004,0.002**	**NP**	**NaN**	**438**	**0.008791**	**0.002896**	**normal**	**ShapiroWilk**
Sulfate (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**160,150,120,120,110,93,88.8,75,75,65.9,52.3,71.6,**	**NP**	**NaN**	**425**	**14.35**	**25.04**	**normal**	**ShapiroWilk**
Total Dissolved Solids (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**639**	**NP**	**NaN**	**425**	**113.1**	**61.2**	**normal**	**ShapiroWilk**

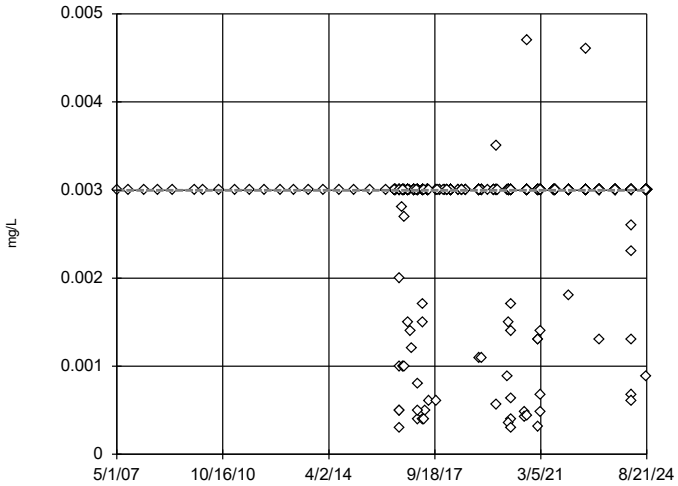
Tukey's Outlier Test - Upgradient Wells - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:10 PM

Constituent	Well	Outlier	Value(s)	Method	Alpha	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	447	0.002788	0.000671	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	495	0.004205	0.001474	unknown	ShapiroWilk
Barium (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**0.14,0.21,0.0671,0.0656,0.0598,0.061,0.061,0.061,**	**NP**	**NaN**	**495**	**0.01707**	**0.01723**	**normal**	**ShapiroWilk**
Beryllium (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	479	0.0004313	0.0001496	unknown	ShapiroWilk
Boron (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**0.13,0.13,0.13,0.14,0.15,0.15,0.156,0.146,0.16**	**NP**	**NaN**	**425**	**0.03251**	**0.02478**	**normal**	**ShapiroWilk**
Cadmium (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	479	0.0004848	0.00007443	unknown	ShapiroWilk
Calcium (mg/L)	YGWA-14S,YGWA-1D,...	No	n/a	NP	NaN	425	10.33	9.973	normal	ShapiroWilk
Chloride (mg/L)	YGWA-14S,YGWA-1D,...	No	n/a	NP	NaN	425	3.628	2.274	normal	ShapiroWilk
Chromium (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	447	0.004354	0.001532	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	495	0.006876	0.01599	unknown	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**3.82,4.24,3.92,3.79,4.33,4.2,3.87,3.96,3.96,4.14,**	**NP**	**NaN**	**474**	**1.099**	**1.049**	**normal**	**ShapiroWilk**
Fluoride (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	494	0.1164	0.09204	unknown	ShapiroWilk
Lead (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	449	0.000896	0.00029	unknown	ShapiroWilk
Lithium (mg/L)	YGWA-14S,YGWA-1D,...	No	n/a	NP	NaN	474	0.01336	0.01145	normal	ShapiroWilk
Mercury (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	403	0.0001933	0.00003992	unknown	ShapiroWilk
Molybdenum (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**0.03,0.0039,0.0039,0.0039,0.004,0.004,0.004,0.002**	**NP**	**NaN**	**438**	**0.008791**	**0.002896**	**normal**	**ShapiroWilk**
pH (S.U.)	YGWA-14S,YGWA-1D,...	No	n/a	NP	NaN	505	6.224	0.8143	normal	ShapiroWilk
Selenium (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	477	0.004769	0.0008663	unknown	ShapiroWilk
Sulfate (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**160,150,120,120,110,93,88.8,75,75,65.9,52.3,71.6,**	**NP**	**NaN**	**425**	**14.35**	**25.04**	**normal**	**ShapiroWilk**
Thallium (mg/L)	YGWA-14S,YGWA-1D,...	n/a	n/a	NP	NaN	413	0.0009777	0.0001418	unknown	ShapiroWilk
Total Dissolved Solids (mg/L)	**YGWA-14S,YGWA-1D,...**	**Yes**	**639**	**NP**	**NaN**	**425**	**113.1**	**61.2**	**normal**	**ShapiroWilk**

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 447

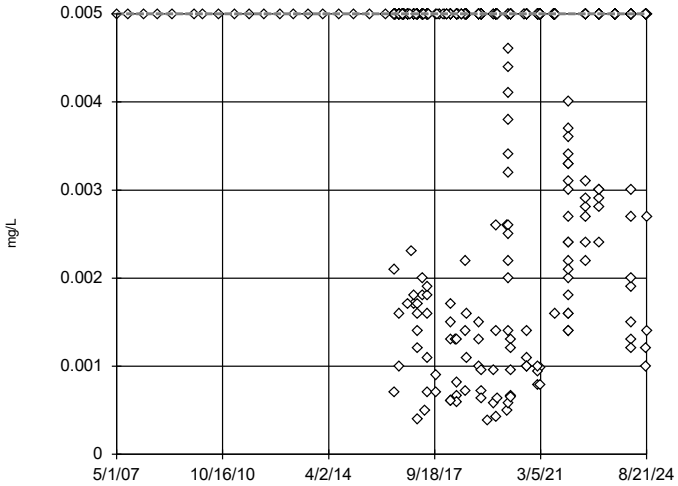
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 495

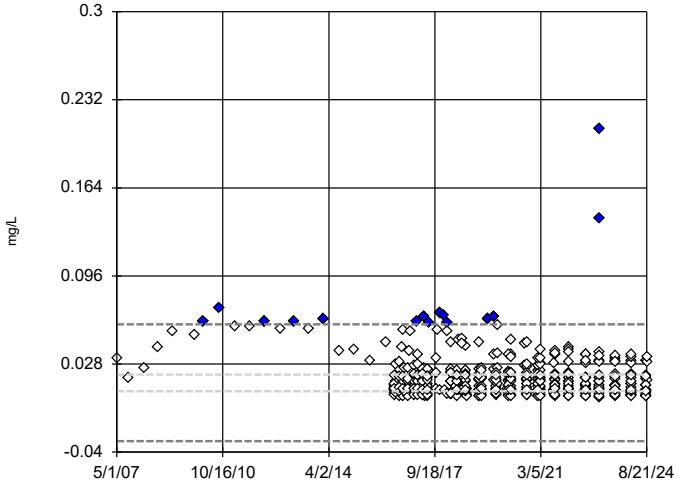
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 495

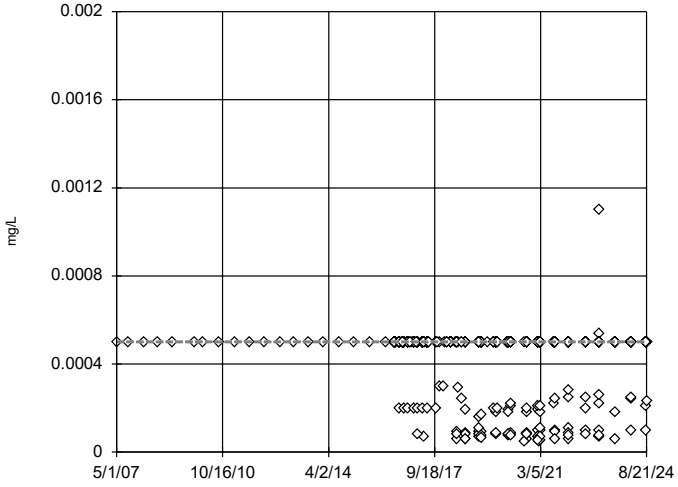
Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 0.0587, low cutoff = -0.0316, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 479

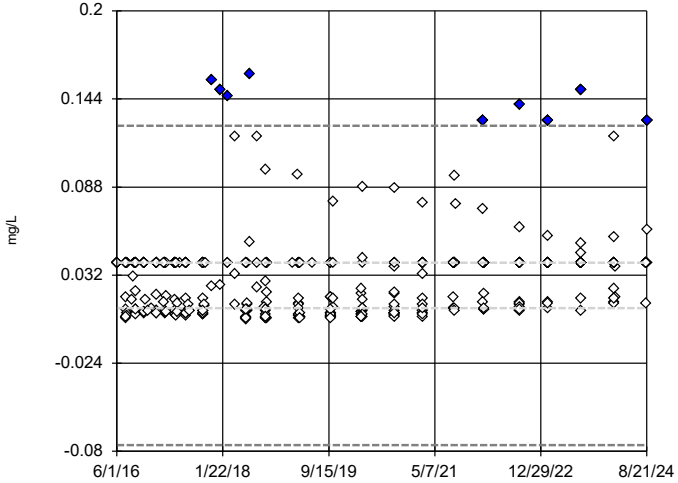
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Beryllium Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 425

Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 0.127, low cutoff = -0.076, based on IQR multiplier of 3.

Constituent: Boron Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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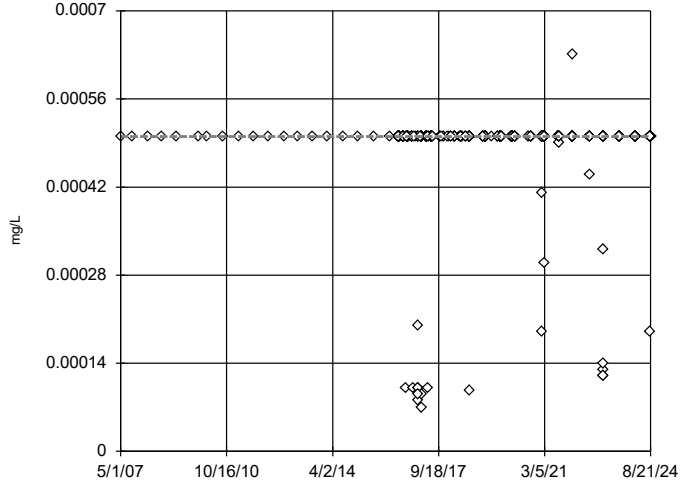
Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 479

No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cadmium Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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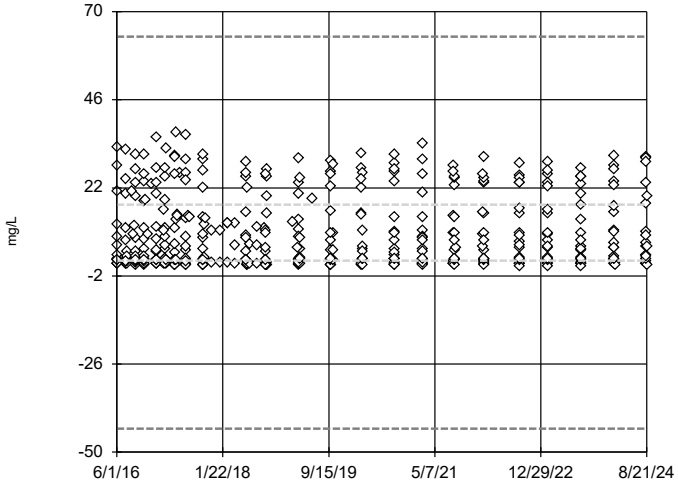
Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 425

No outliers found.
Tukey's method selected by user.

High cutoff = 63.23, low cutoff = -43.59, based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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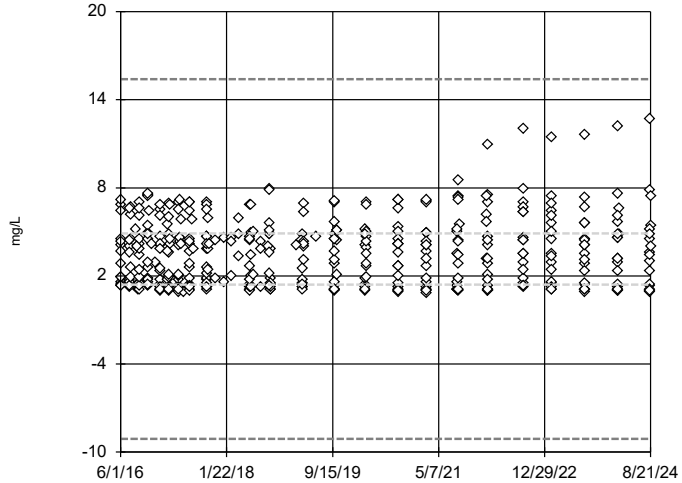
Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 425

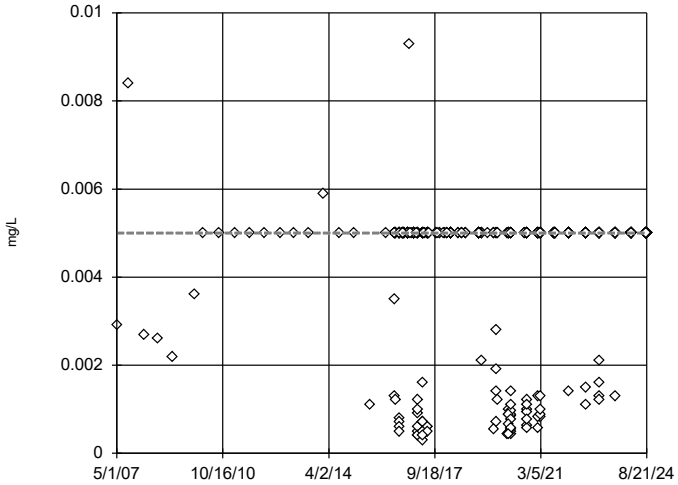
No outliers found.
Tukey's method selected by user.

High cutoff = 15.4, low cutoff = -9.1, based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 447

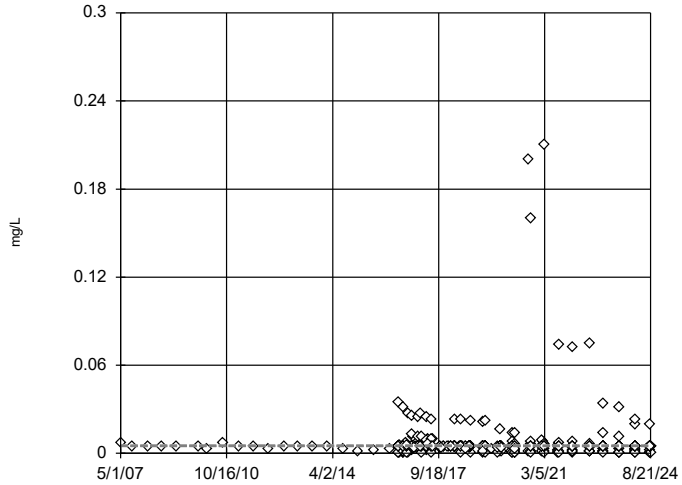
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 495

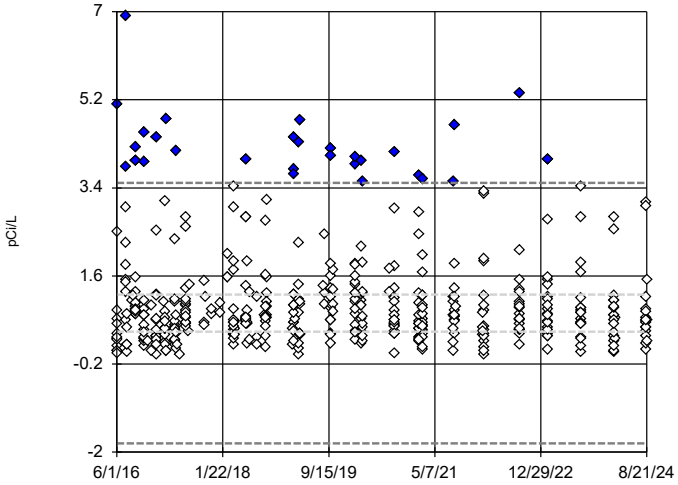
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Cobalt Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 474

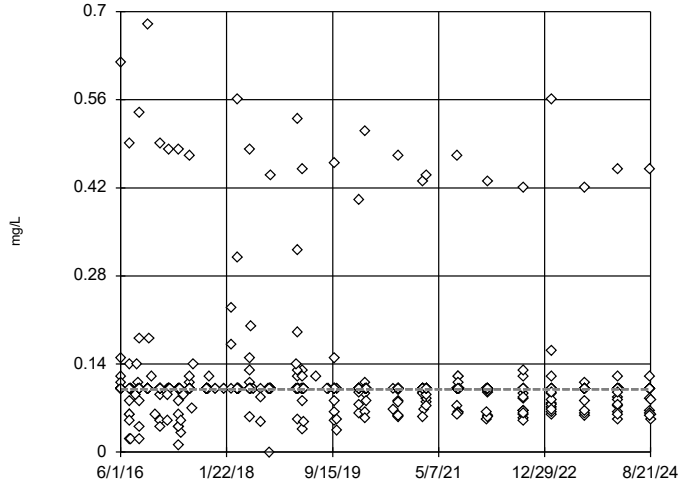
Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 3.502, low cutoff = -1.822, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Scree
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 494

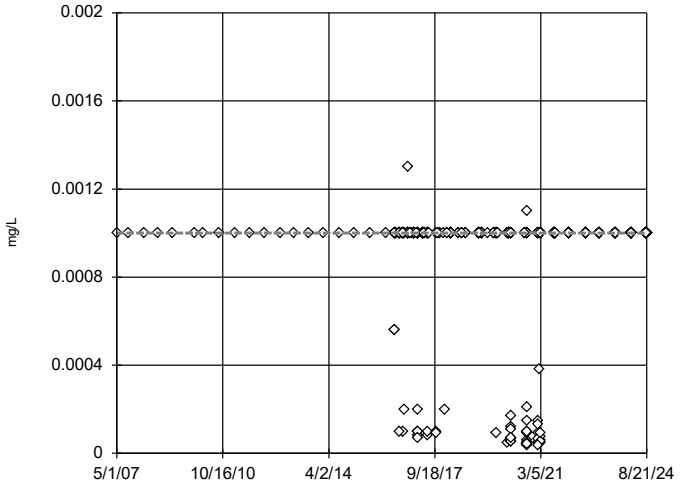
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Fluoride Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 449

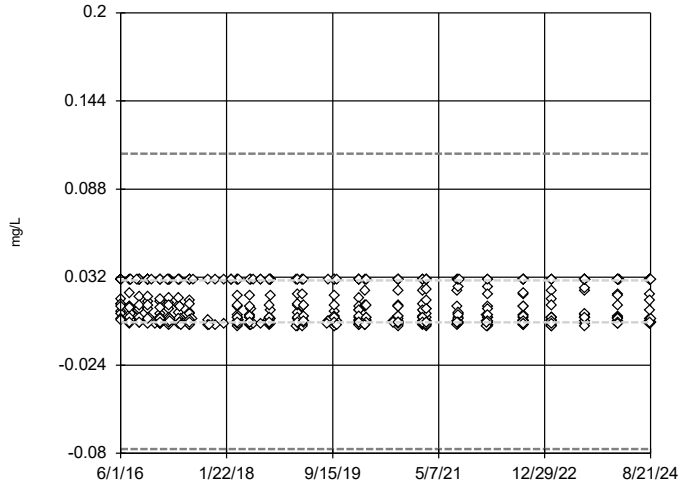
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 474

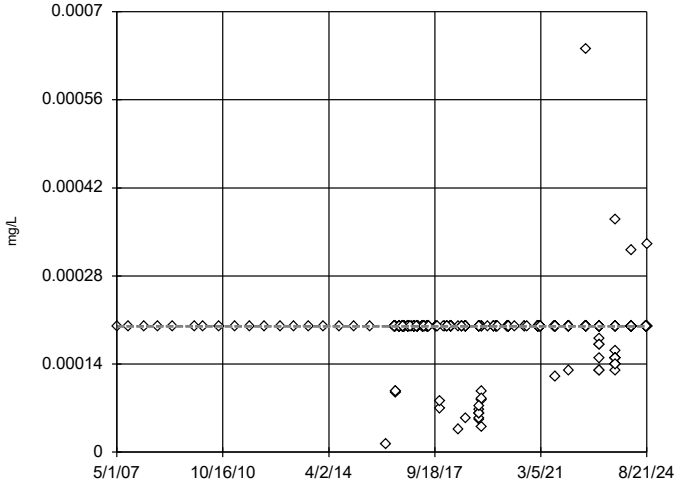
No outliers found.
Tukey's method selected by user.

High cutoff = 0.1104, low cutoff = -0.0772, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 403

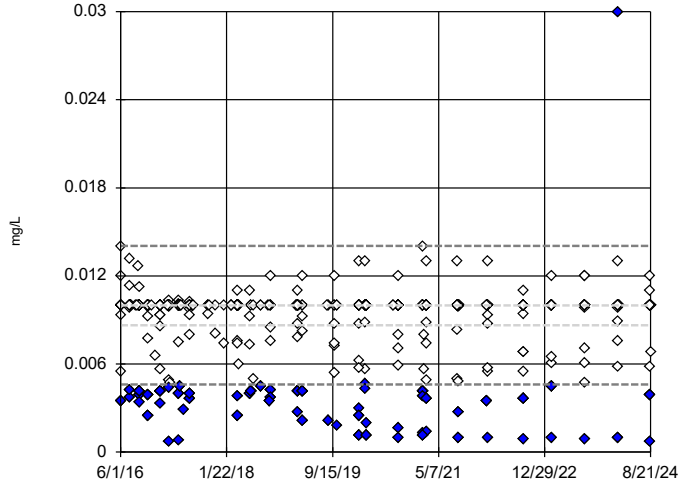
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Mercury Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 438

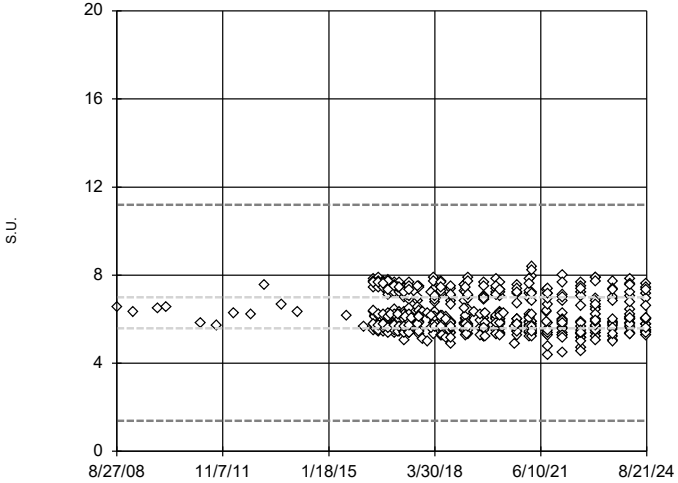
Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 0.01405, low cutoff = 0.0046, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 505

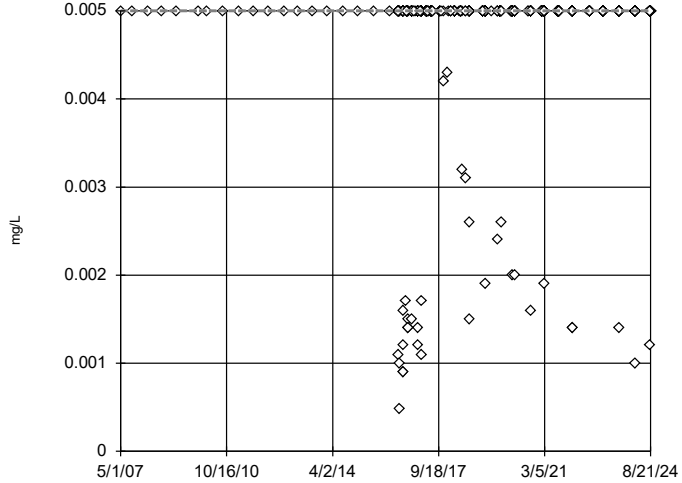
No outliers found.
Tukey's method selected by user.

High cutoff = 11.19, low cutoff = 1.39, based on IQR multiplier of 3.

Constituent: pH Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 477

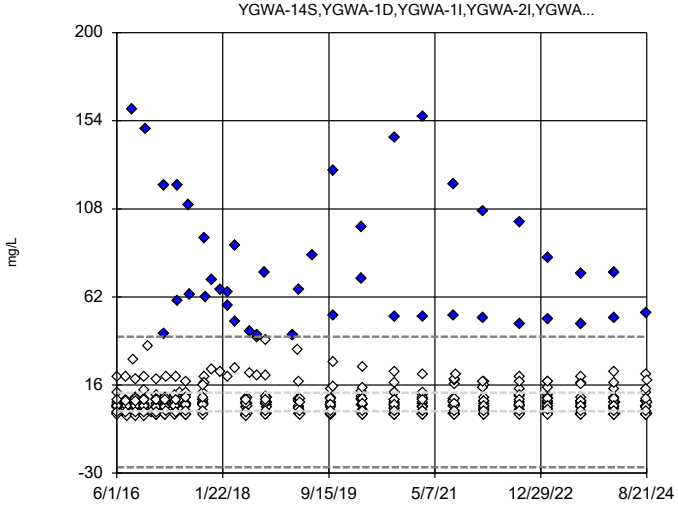
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Selenium Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 425

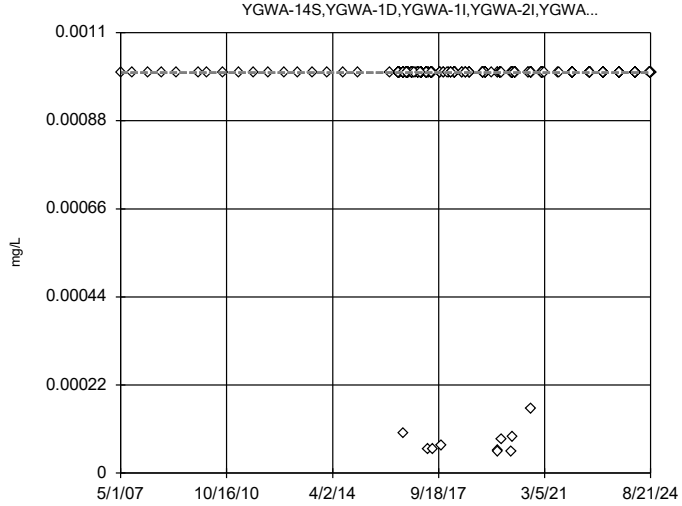
Outliers are drawn as solid.
Tukey's method selected by user.

High cutoff = 41.25, low cutoff = -27, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 413

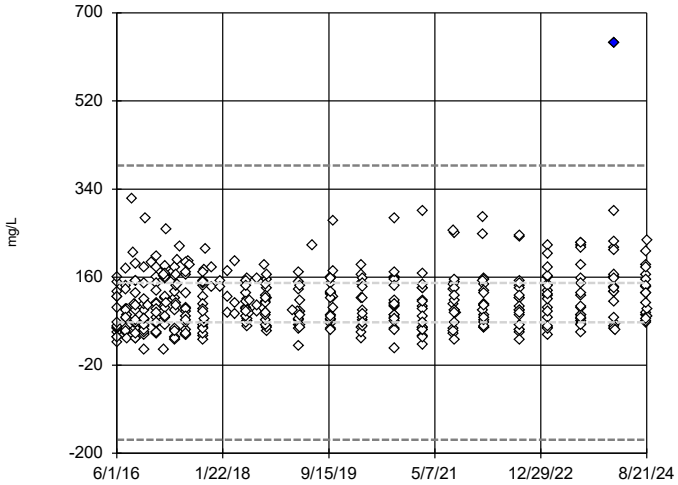
No outliers found.
Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Thallium Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening, Pooled Background

YGWA-14S,YGWA-1D,YGWA-1I,YGWA-2I,YGWA...



n = 425

Outlier is drawn as solid. Tukey's method select-ed by user.

High cutoff = 388, low cutoff = -172, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids Analysis Run 11/7/2024 3:07 PM View: Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE D.

Appendix III Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:22 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-39 (bg)	0.01793	115	81	Yes	20	5	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.01202	-131	-81	Yes	20	0	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0007069	99	98	Yes	23	26.09	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.5198	135	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.07033	-126	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.478	103	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-0.8737	-132	-81	Yes	20	5	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1465	186	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.06725	-171	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	2.49	121	81	Yes	20	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-1.034	-107	-98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.06991	145	98	Yes	23	0	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	2.258	92	81	Yes	20	5	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.0326	-128	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.0226	-105	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.3342	-132	-81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.914	205	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-18I (bg)	0.1003	131	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.09204	163	98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2393	106	81	Yes	20	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.5475	-187	-98	Yes	23	0	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.2946	117	81	Yes	20	0	n/a	0.01	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.01072	-141	-124	Yes	27	3.704	n/a	0.01	NP
pH (S.U.)	YGWA-18S (bg)	-0.0383	-183	-124	Yes	27	0	n/a	0.01	NP
pH (S.U.)	YGWA-21I (bg)	0.08208	149	124	Yes	27	0	n/a	0.01	NP
pH (S.U.)	YGWA-39 (bg)	-0.1431	-122	-98	Yes	23	0	n/a	0.01	NP
pH (S.U.)	GWA-2 (bg)	-0.04422	-250	-184	Yes	35	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-1D (bg)	0.8848	191	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-2I (bg)	1.44	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.2355	132	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.8717	133	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-47 (bg)	-10.68	-149	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-18I (bg)	-0.09033	-116	-98	Yes	23	21.74	n/a	0.01	NP
Sulfate (mg/L)	YGWA-39 (bg)	-2.451	-142	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-40 (bg)	-5.801	-141	-81	Yes	20	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5D (bg)	-2.152	-197	-98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	YGWA-5I (bg)	0.0842	177	98	Yes	23	0	n/a	0.01	NP
Sulfate (mg/L)	GWA-2 (bg)	9.755	89	81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-9.336	-108	-81	Yes	20	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21I (bg)	9.422	118	98	Yes	23	0	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	25.35	110	81	Yes	20	0	n/a	0.01	NP

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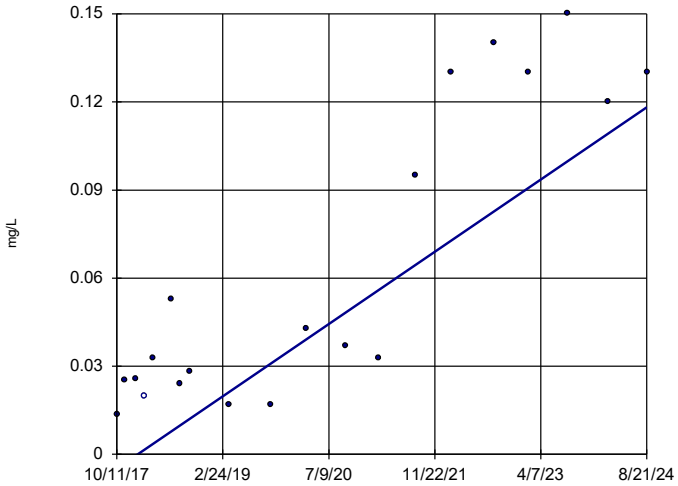
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 0.01793 units per year.

Mann-Kendall statistic = 115
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:19 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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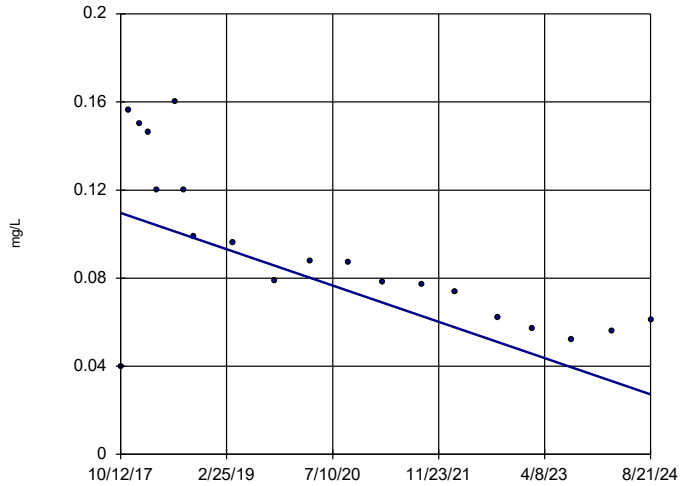
Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -0.01202 units per year.

Mann-Kendall statistic = -131
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:19 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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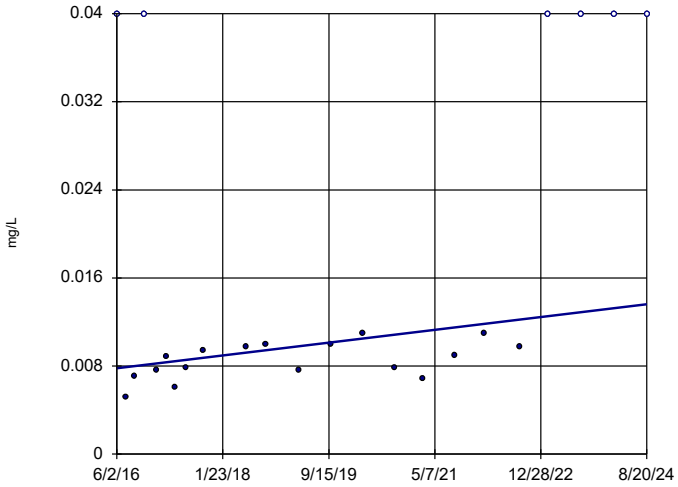
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0.0007069 units per year.

Mann-Kendall statistic = 99
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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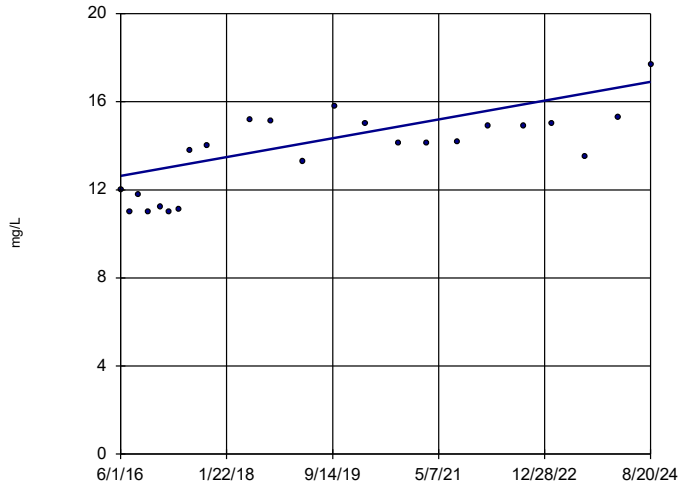
Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.5198 units per year.

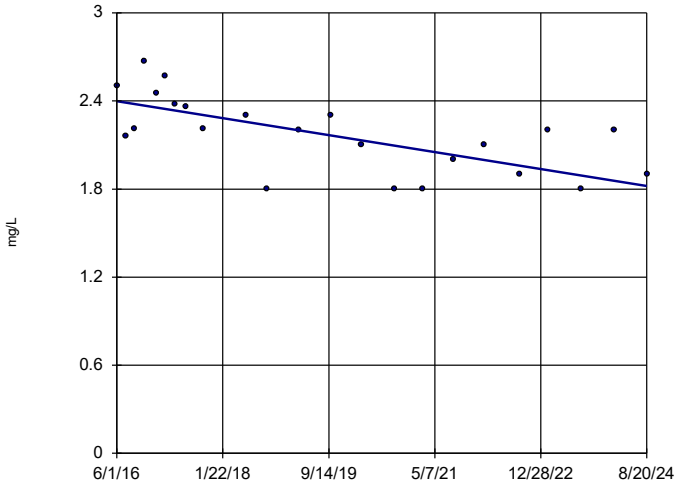
Mann-Kendall statistic = 135
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.07033 units per year.

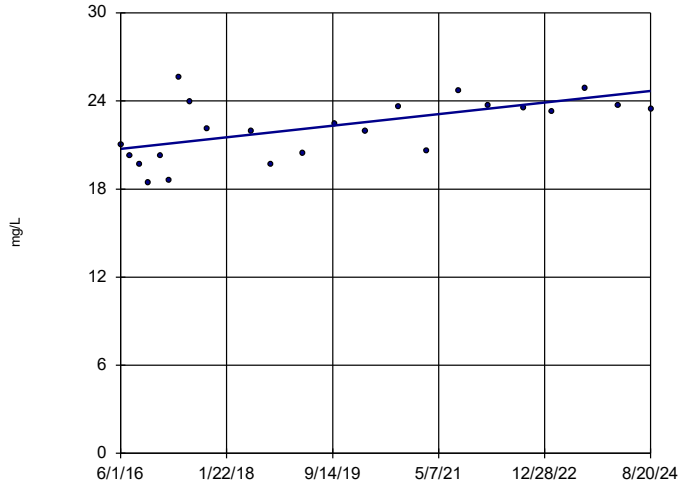
Mann-Kendall statistic = -126
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.478 units per year.

Mann-Kendall statistic = 103
critical = 98

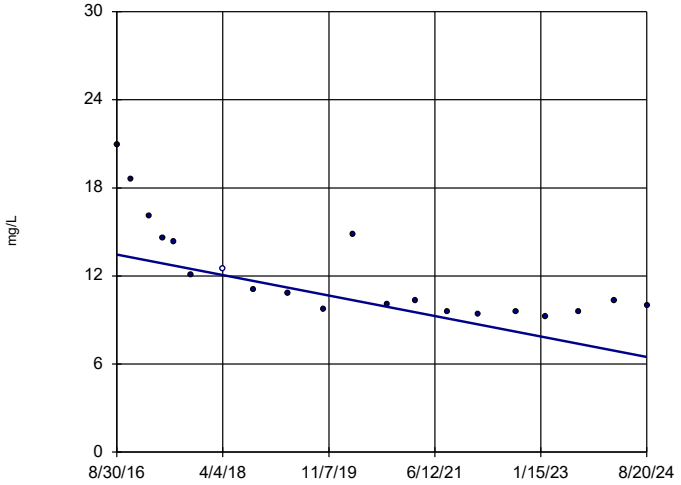
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.8737 units per year.

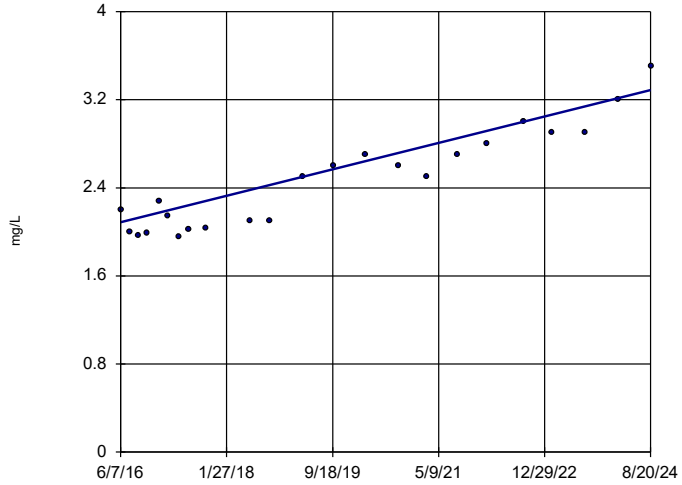
Mann-Kendall statistic = -132
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.1465 units per year.

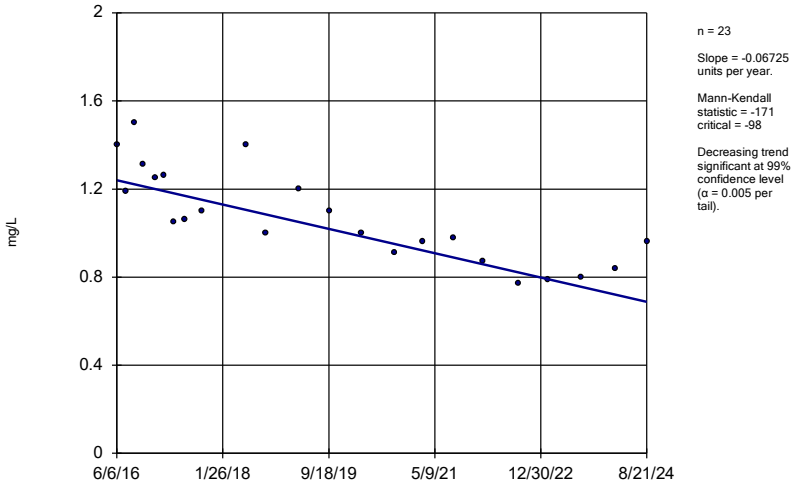
Mann-Kendall statistic = 186
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = -0.06725 units per year.

Mann-Kendall statistic = -171
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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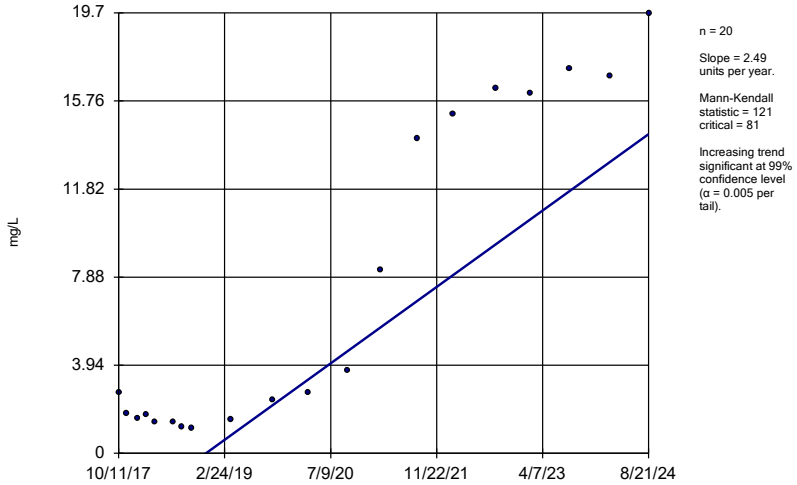
Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 2.49 units per year.

Mann-Kendall statistic = 121
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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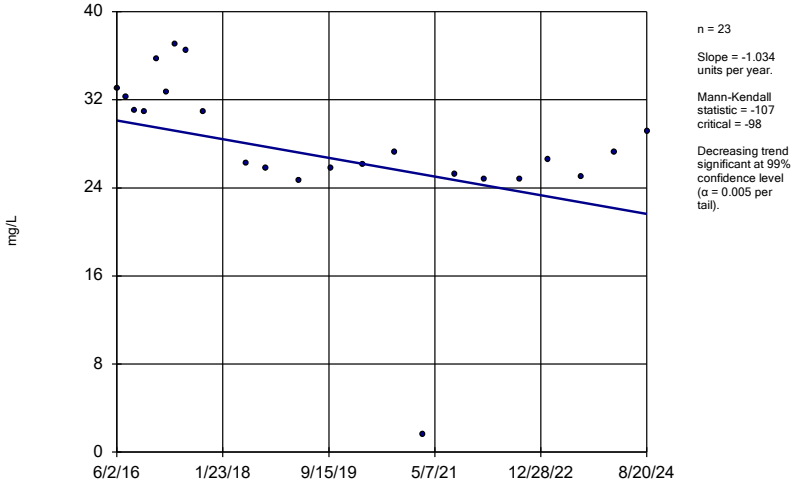
Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -1.034 units per year.

Mann-Kendall statistic = -107
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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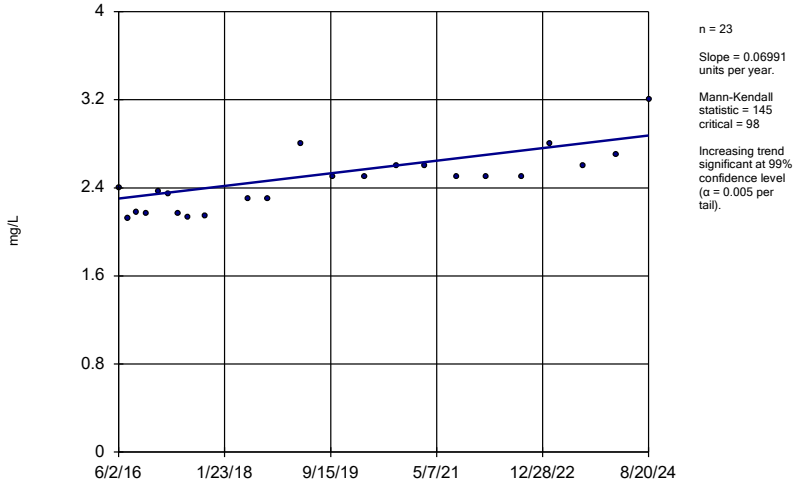
Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.06991 units per year.

Mann-Kendall statistic = 145
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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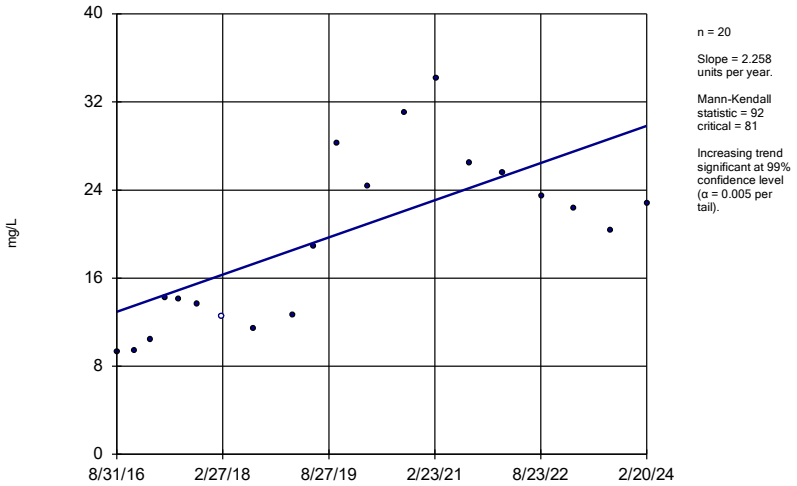
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 2.258 units per year.

Mann-Kendall statistic = 92
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Calcium Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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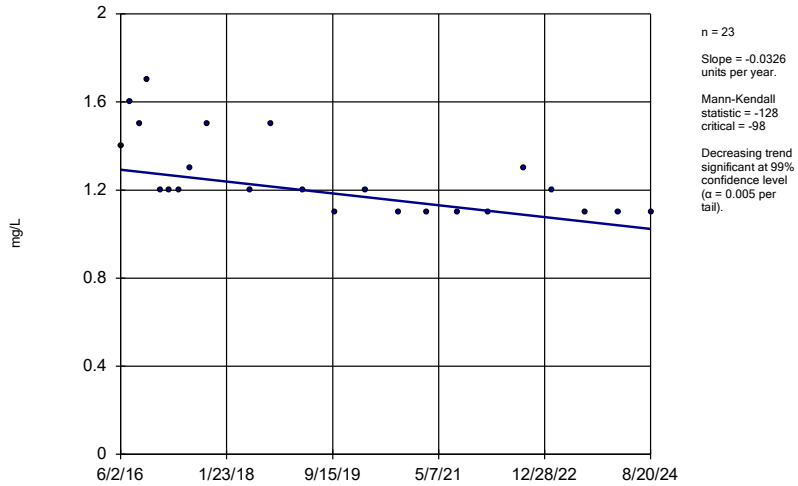
Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = -0.0326 units per year.

Mann-Kendall statistic = -128
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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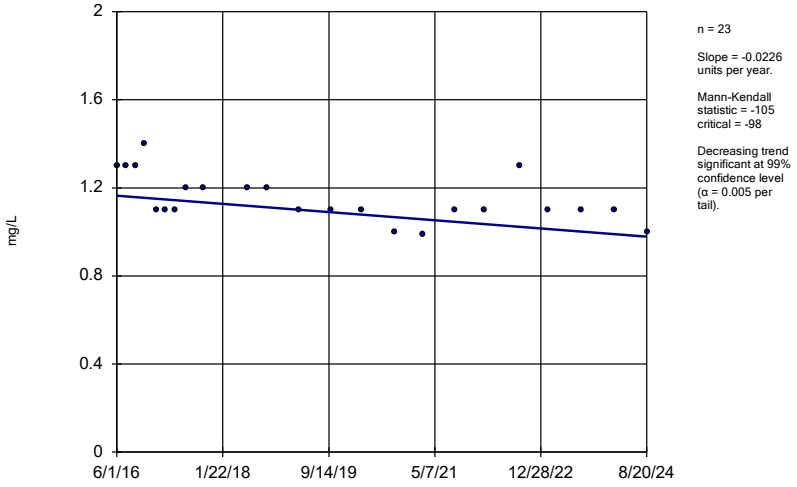
Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = -0.0226 units per year.

Mann-Kendall statistic = -105
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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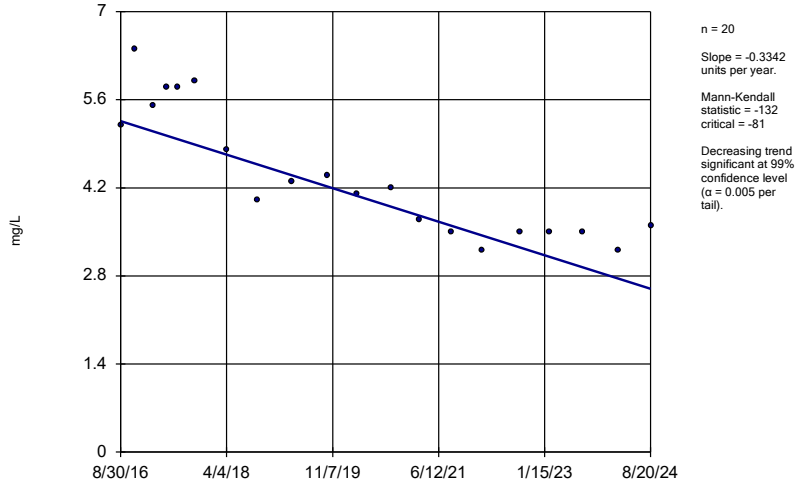
Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.3342 units per year.

Mann-Kendall statistic = -132
critical = -81

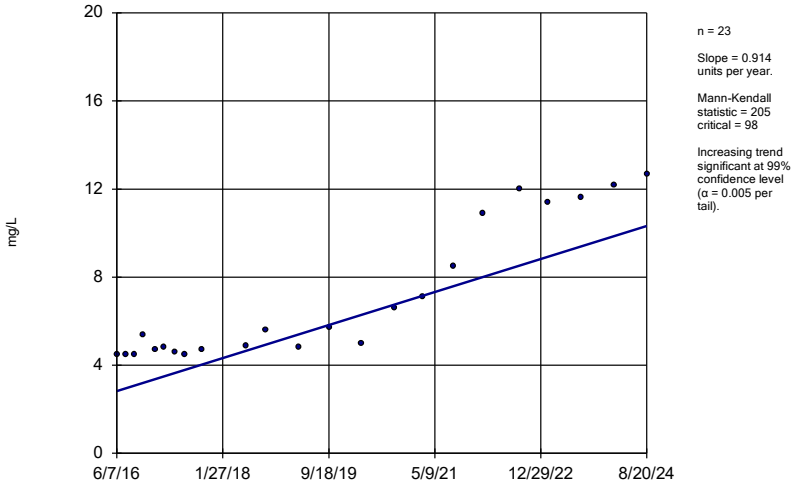
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.914 units per year.

Mann-Kendall statistic = 205
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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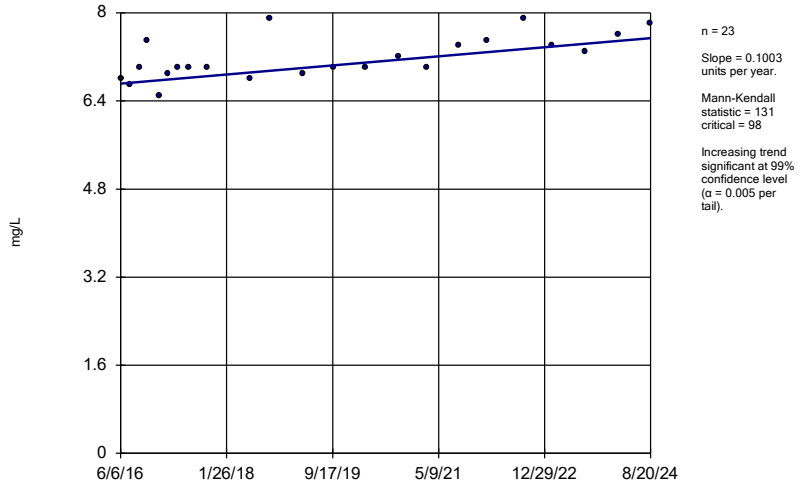
Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0.1003 units per year.

Mann-Kendall statistic = 131
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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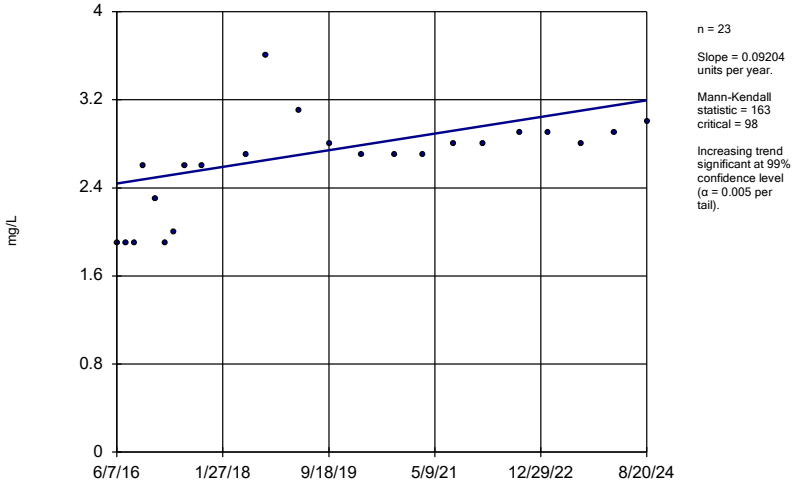
Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0.09204 units per year.

Mann-Kendall statistic = 163
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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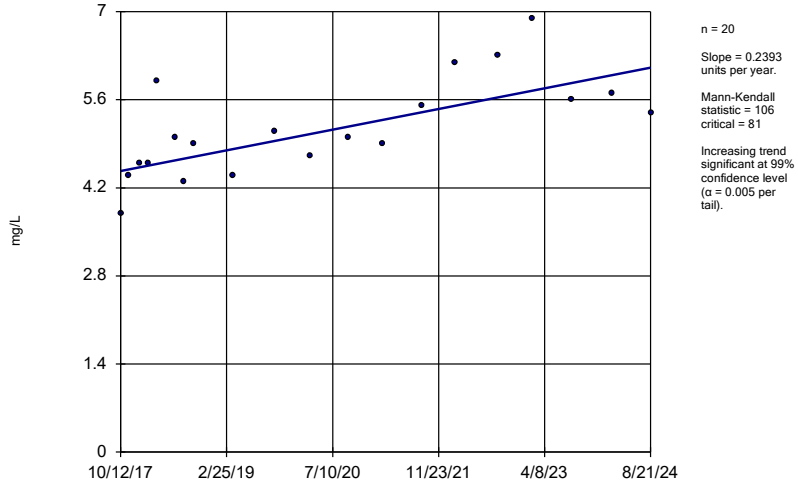
Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = 0.2393 units per year.

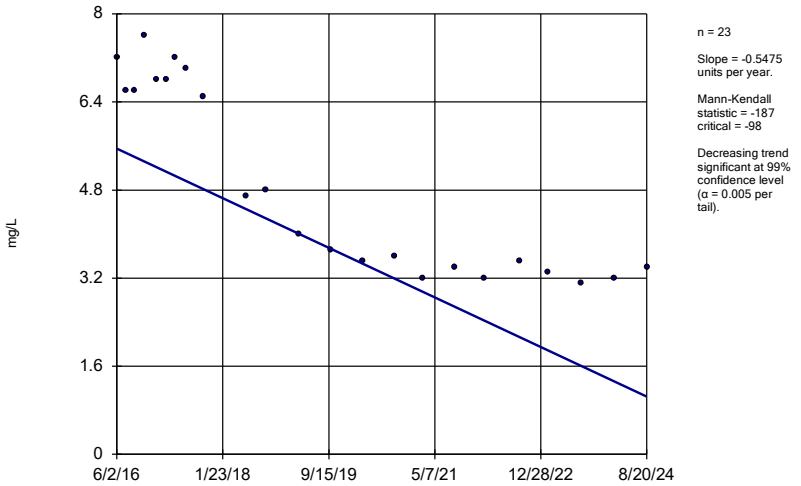
Mann-Kendall statistic = 106
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -0.5475 units per year.

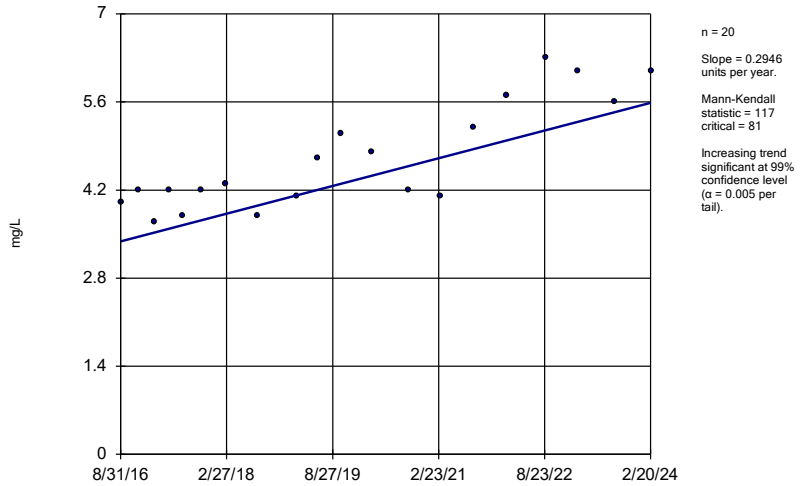
Mann-Kendall statistic = -187
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0.2946 units per year.

Mann-Kendall statistic = 117
critical = 81

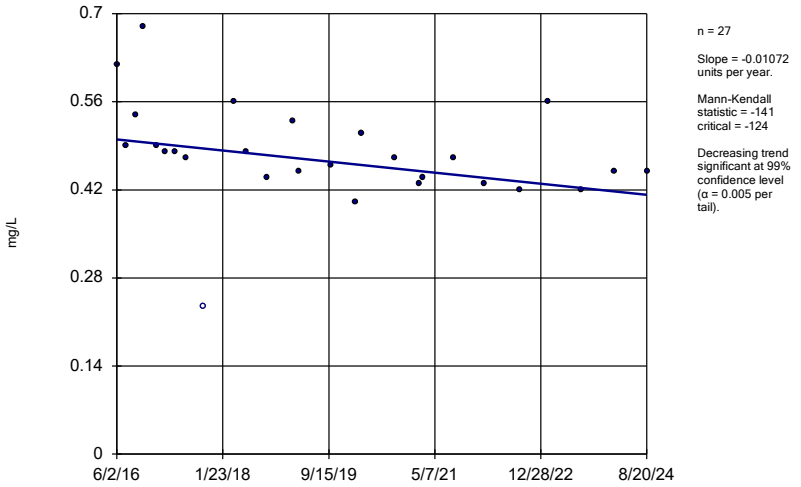
Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 27

Slope = -0.01072 units per year.

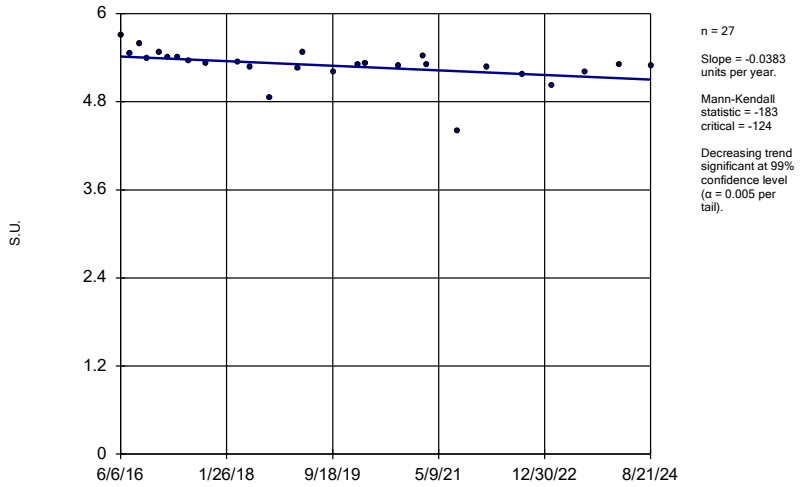
Mann-Kendall statistic = -141
critical = -124

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Fluoride Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18S (bg)



n = 27

Slope = -0.0383 units per year.

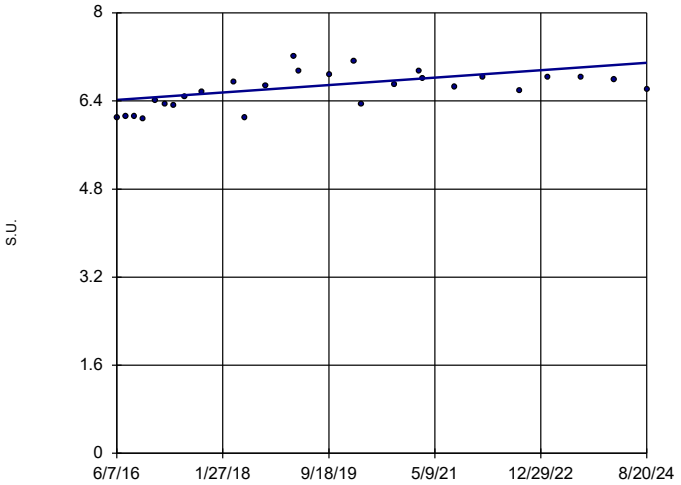
Mann-Kendall statistic = -183
critical = -124

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21I (bg)



n = 27

Slope = 0.08208 units per year.

Mann-Kendall statistic = 149 critical = 124

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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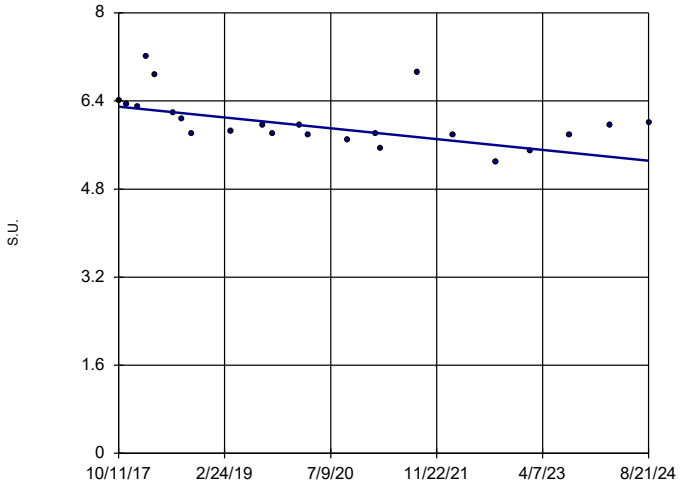
Sen's Slope Estimator

YGWA-39 (bg)



n = 23

Slope = -0.1431 units per year.

Mann-Kendall statistic = -122 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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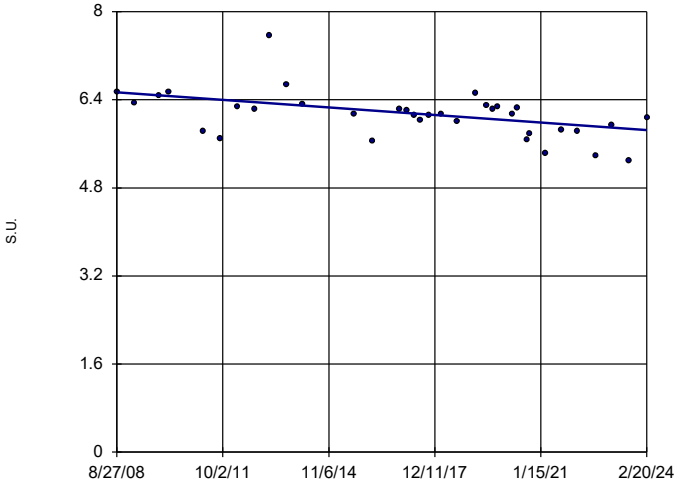
Sen's Slope Estimator

GWA-2 (bg)



n = 35

Slope = -0.04422 units per year.

Mann-Kendall statistic = -250 critical = -184

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: pH Analysis Run 11/7/2024 3:20 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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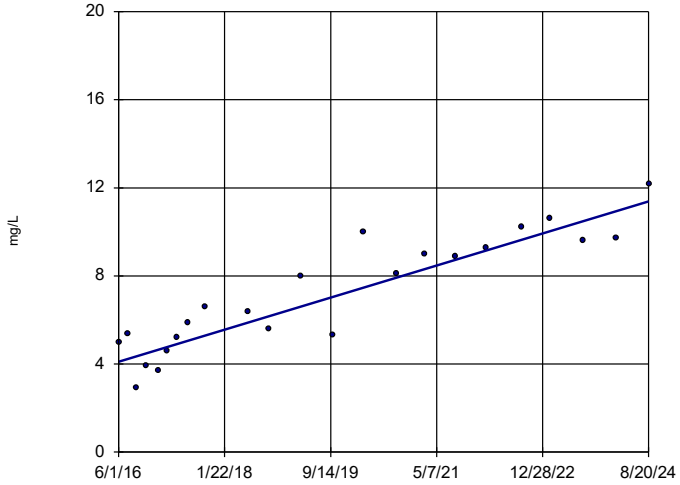
Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.8848 units per year.

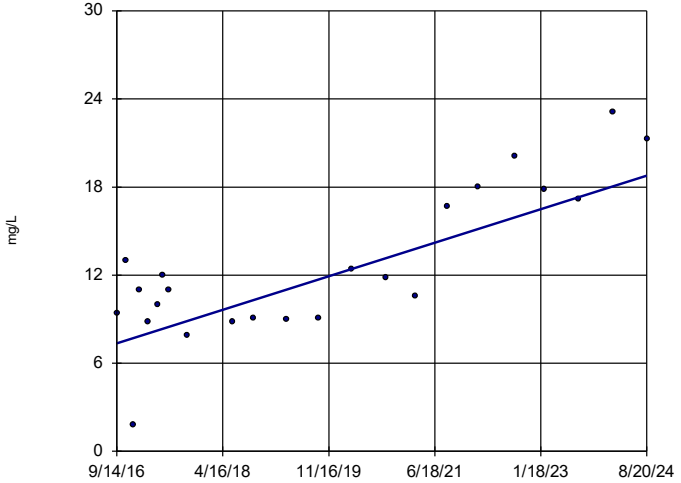
Mann-Kendall statistic = 191 critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 1.44 units per year.

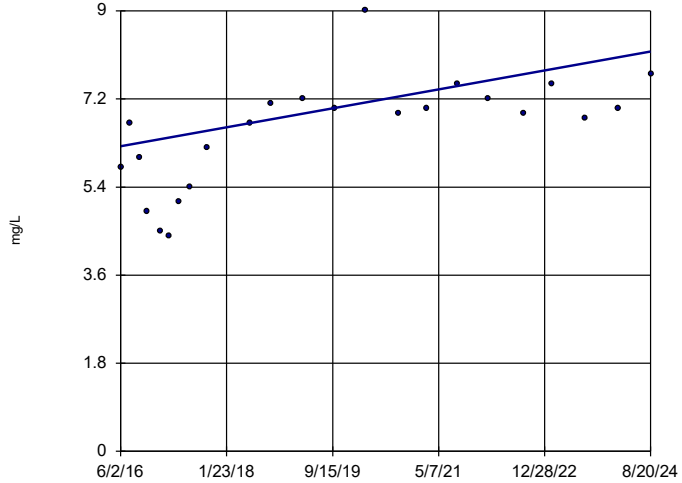
Mann-Kendall statistic = 132
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0.2355 units per year.

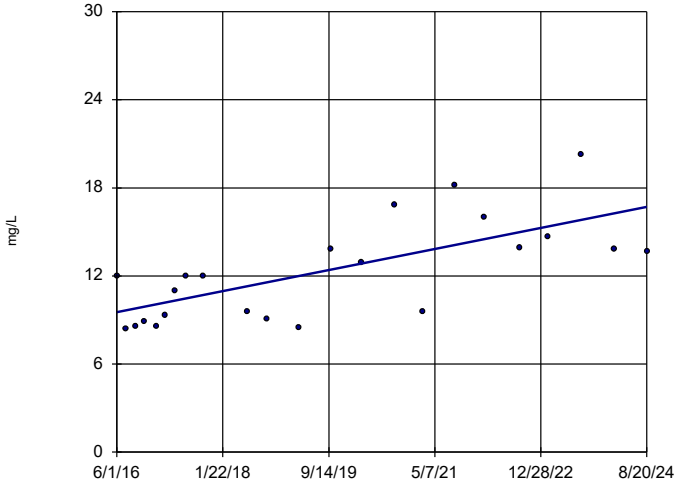
Mann-Kendall statistic = 132
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0.8717 units per year.

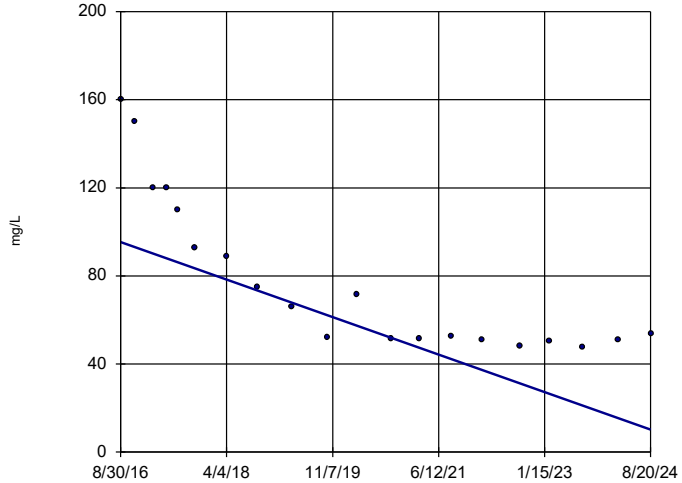
Mann-Kendall statistic = 133
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -10.68 units per year.

Mann-Kendall statistic = -149
critical = -81

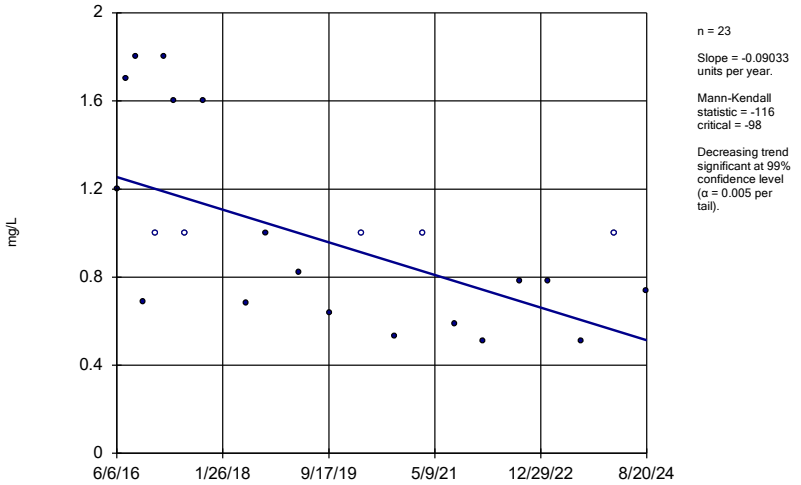
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = -0.09033 units per year.

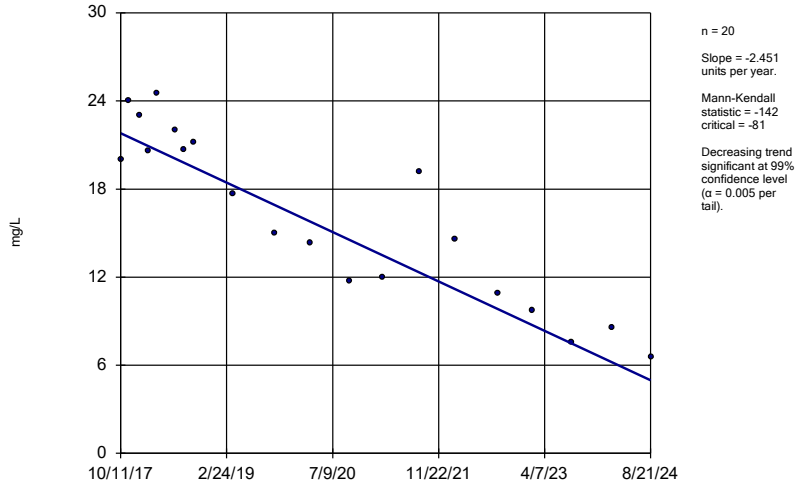
Mann-Kendall statistic = -116
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = -2.451 units per year.

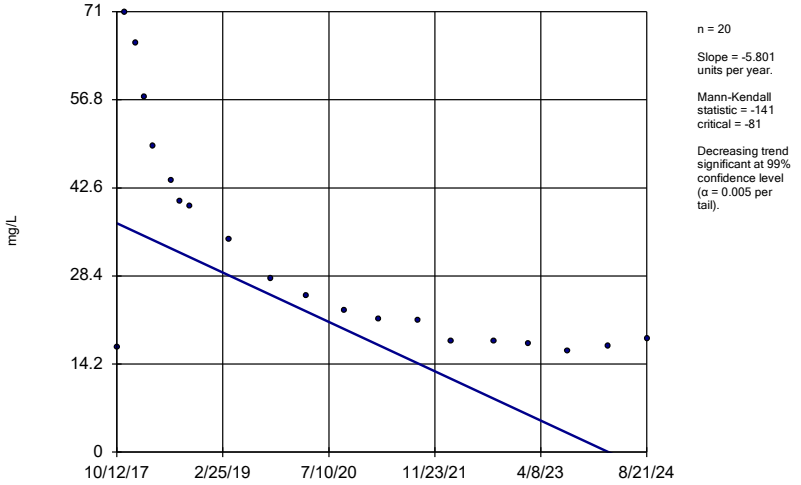
Mann-Kendall statistic = -142
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -5.801 units per year.

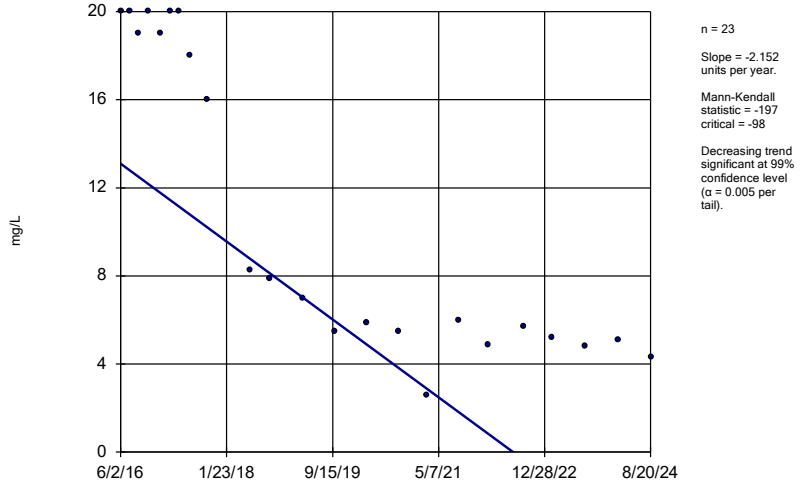
Mann-Kendall statistic = -141
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -2.152 units per year.

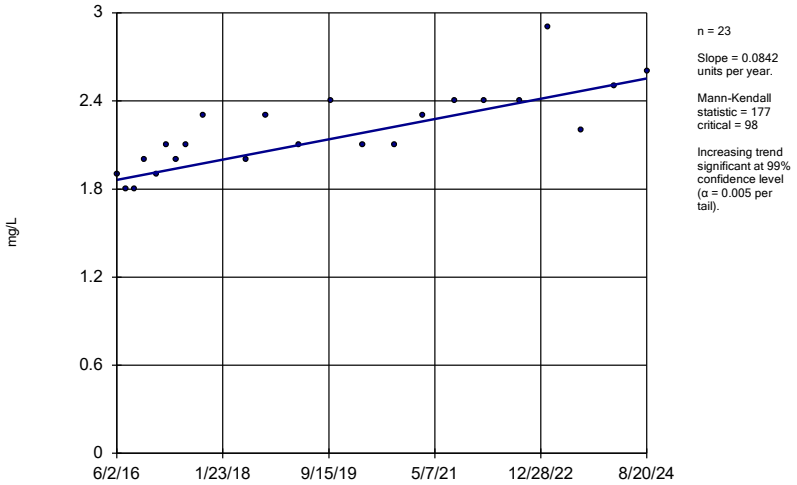
Mann-Kendall statistic = -197
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.0842 units per year.

Mann-Kendall statistic = 177
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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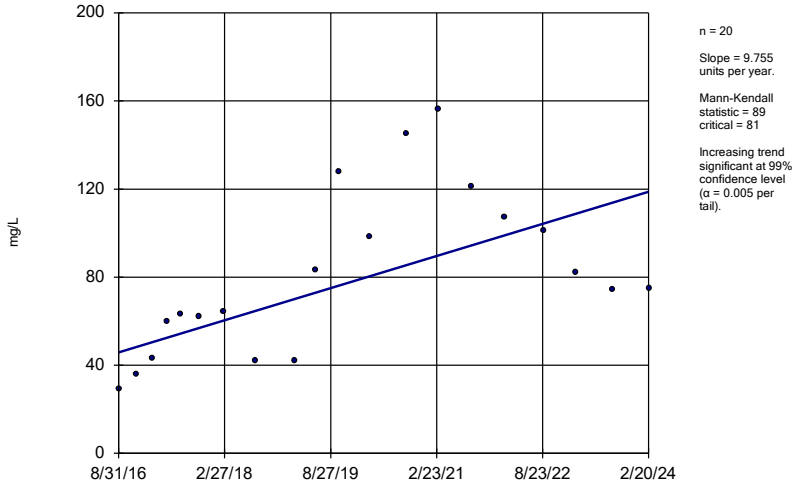
Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 9.755 units per year.

Mann-Kendall statistic = 89
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Sulfate Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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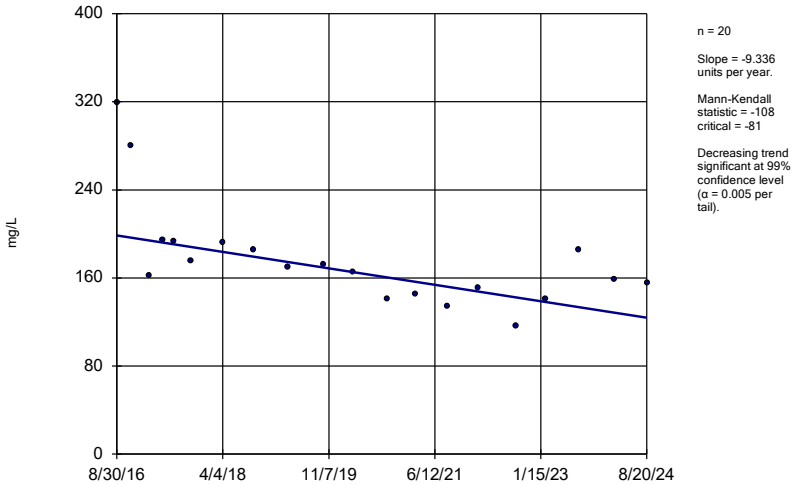
Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -9.336 units per year.

Mann-Kendall statistic = -108
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Well
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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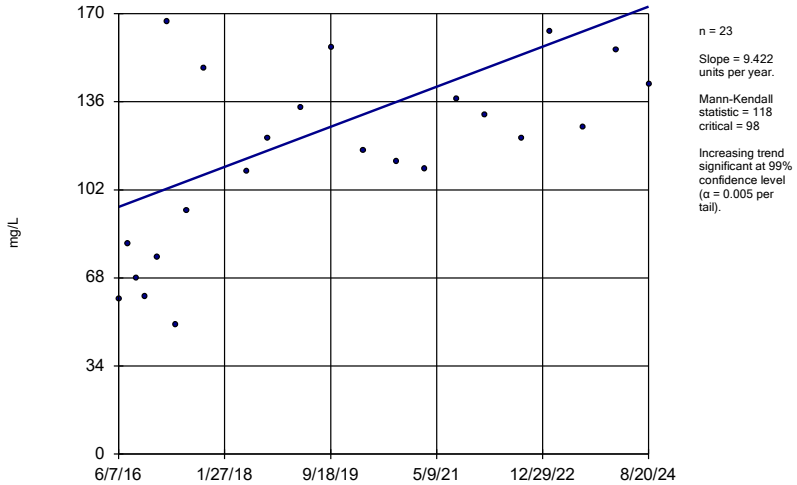
Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 9.422 units per year.

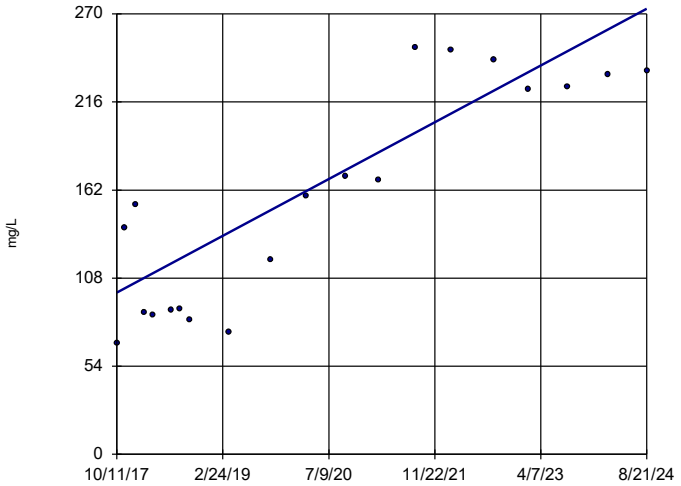
Mann-Kendall statistic = 118
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Well
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 25.35 units per year.

Mann-Kendall statistic = 110
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Total Dissolved Solids Analysis Run 11/7/2024 3:21 PM View: Appendix III - Upgradient Well

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Appendix IV Trend Tests - Upgradient Wells - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:27 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Arsenic (mg/L)	GWA-2 (bg)	0	-2.681	-1.96	Yes	41	87.8	n/a	0.05	NP
Barium (mg/L)	YGWA-2I (bg)	-0.0002032	-134	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-3D (bg)	-0.0005074	-250	-90	Yes	26	3.846	n/a	0.05	NP
Barium (mg/L)	YGWA-17S (bg)	0.0005801	208	85	Yes	25	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18I (bg)	-0.001001	-236	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-18S (bg)	-0.0006772	-137	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-20S (bg)	-0.0003692	-133	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-39 (bg)	0.0043	150	71	Yes	22	9.091	n/a	0.05	NP
Barium (mg/L)	YGWA-40 (bg)	-0.002482	-103	-71	Yes	22	0	n/a	0.05	NP
Barium (mg/L)	YGWA-4I (bg)	-0.0002834	-107	-90	Yes	26	0	n/a	0.05	NP
Barium (mg/L)	YGWA-5D (bg)	-0.0001426	-92	-90	Yes	26	3.846	n/a	0.05	NP
Beryllium (mg/L)	YGWA-18S (bg)	-0.000006801	-91	-90	Yes	26	42.31	n/a	0.05	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003971	-310	-90	Yes	26	0	n/a	0.05	NP
Cobalt (mg/L)	YGWA-47 (bg)	-0.0007522	-144	-66	Yes	21	4.762	n/a	0.05	NP
Cobalt (mg/L)	YGWA-39 (bg)	-0.000669	-92	-71	Yes	22	40.91	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-21I (bg)	0.1046	112	90	Yes	26	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-40 (bg)	-0.1233	-105	-71	Yes	22	0	n/a	0.05	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-5D (bg)	-0.1935	-108	-90	Yes	26	0	n/a	0.05	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.01072	-141	-96	Yes	27	3.704	n/a	0.05	NP
Fluoride (mg/L)	YGWA-39 (bg)	0	-79	-76	Yes	23	65.22	n/a	0.05	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.0007084	-110	-90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3D (bg)	0.0005738	158	90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-3I (bg)	0.001358	190	90	Yes	26	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-47 (bg)	-0.000209	-119	-66	Yes	21	0	n/a	0.05	NP
Lithium (mg/L)	YGWA-18I (bg)	-0.000215	-154	-90	Yes	26	7.692	n/a	0.05	NP
Lithium (mg/L)	YGWA-39 (bg)	0.0009005	122	71	Yes	22	4.545	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-1I (bg)	-0.000784	-216	-90	Yes	26	3.846	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-2I (bg)	0.0004044	137	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-3D (bg)	0.0003871	166	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-3I (bg)	0.0004966	102	90	Yes	26	0	n/a	0.05	NP
Molybdenum (mg/L)	YGWA-5D (bg)	-0.0004224	-115	-71	Yes	22	13.64	n/a	0.05	NP
Selenium (mg/L)	YGWA-17S (bg)	0	124	85	Yes	25	76	n/a	0.05	NP

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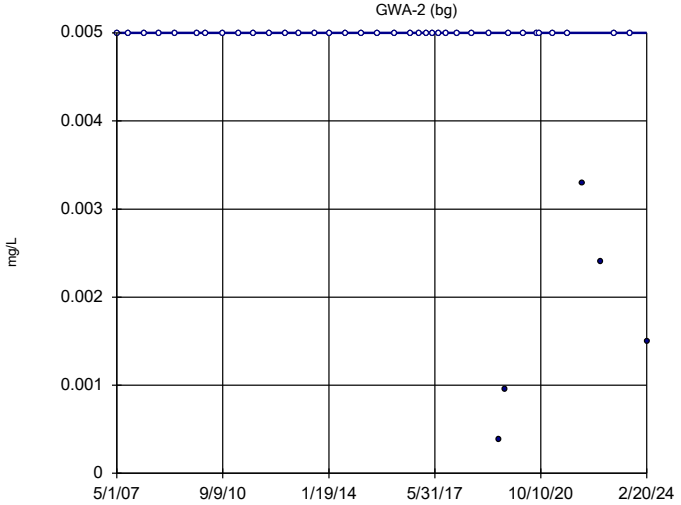
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 41

Slope = 0
units per year.

Mann-Kendall
normal approx. =
-2.681
critical = -1.96

Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Arsenic Analysis Run 11/7/2024 3:23 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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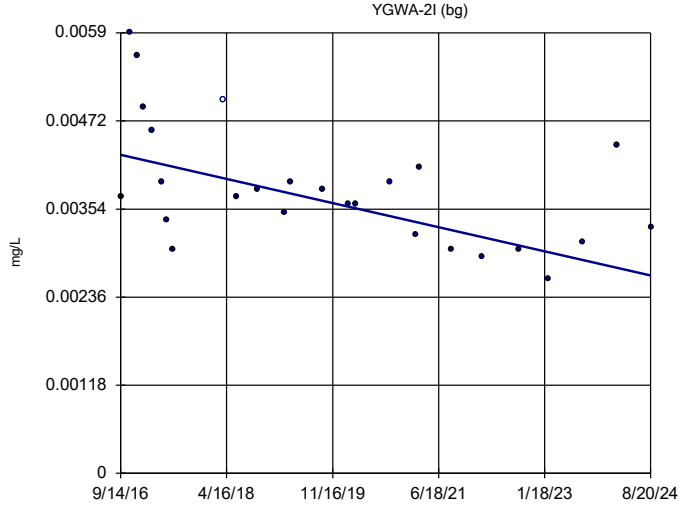
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 26

Slope = -0.0002032
units per year.

Mann-Kendall
statistic = -134
critical = -90

Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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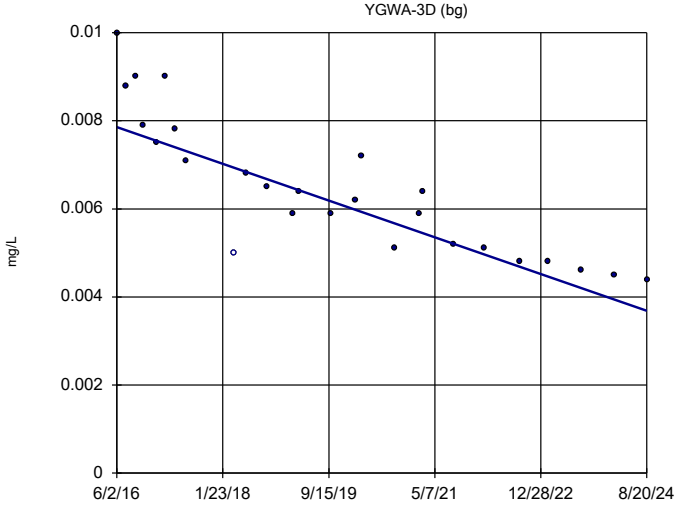
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 26

Slope = -0.0005074
units per year.

Mann-Kendall
statistic = -250
critical = -90

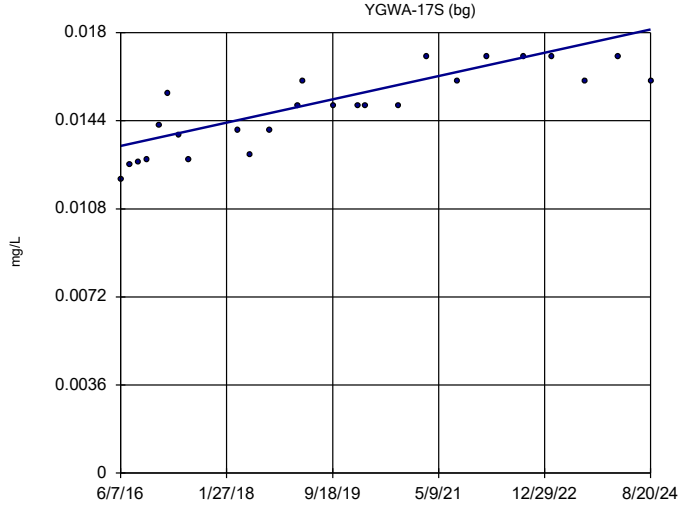
Decreasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0.0005801
units per year.

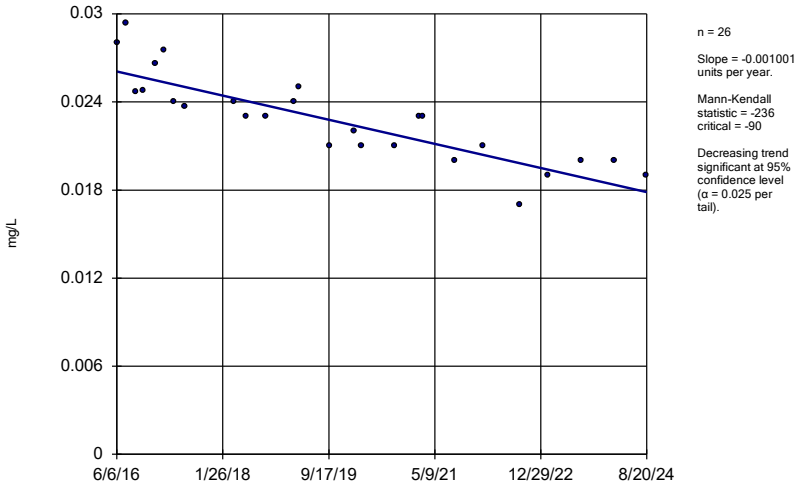
Mann-Kendall
statistic = 208
critical = 85

Increasing trend
significant at 95%
confidence level
(α = 0.025 per
tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18I (bg)



n = 26

Slope = -0.001001 units per year.

Mann-Kendall statistic = -236
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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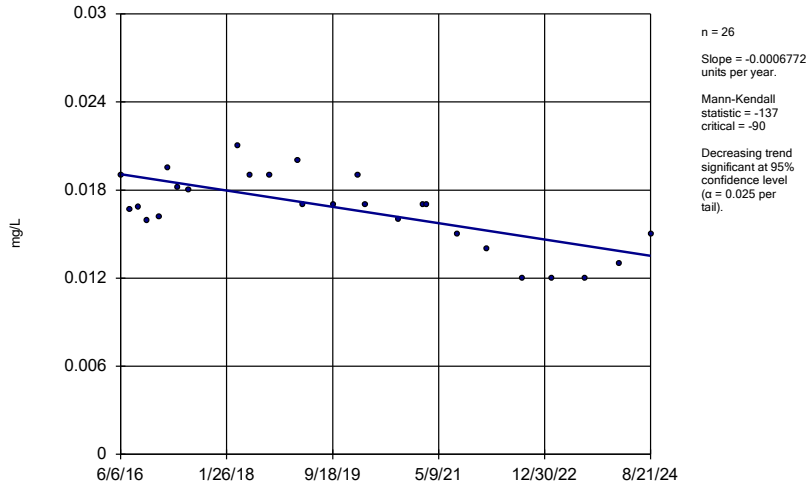
Sen's Slope Estimator

YGWA-18S (bg)



n = 26

Slope = -0.0006772 units per year.

Mann-Kendall statistic = -137
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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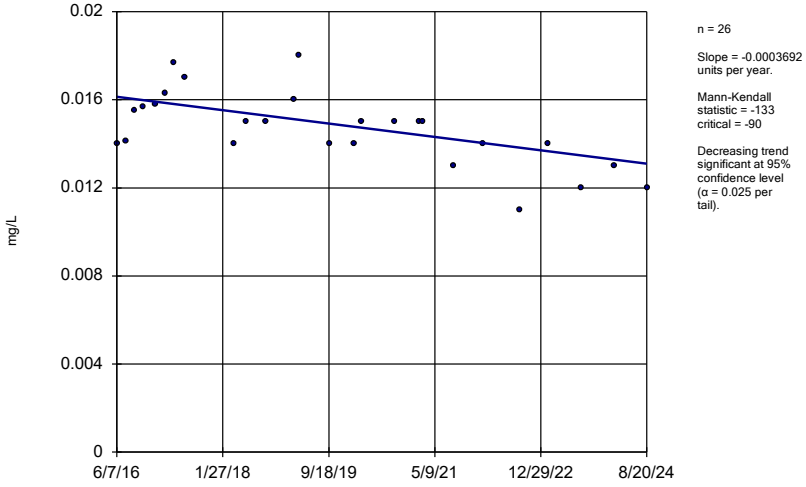
Sen's Slope Estimator

YGWA-20S (bg)



n = 26

Slope = -0.0003692 units per year.

Mann-Kendall statistic = -133
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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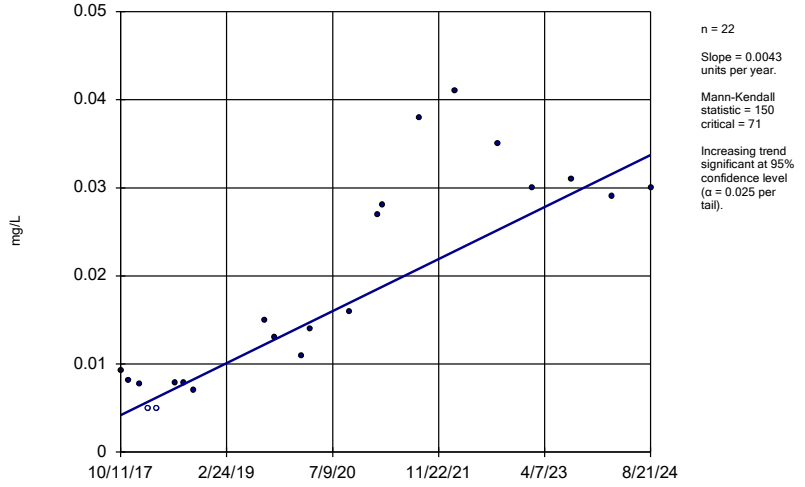
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = 0.0043 units per year.

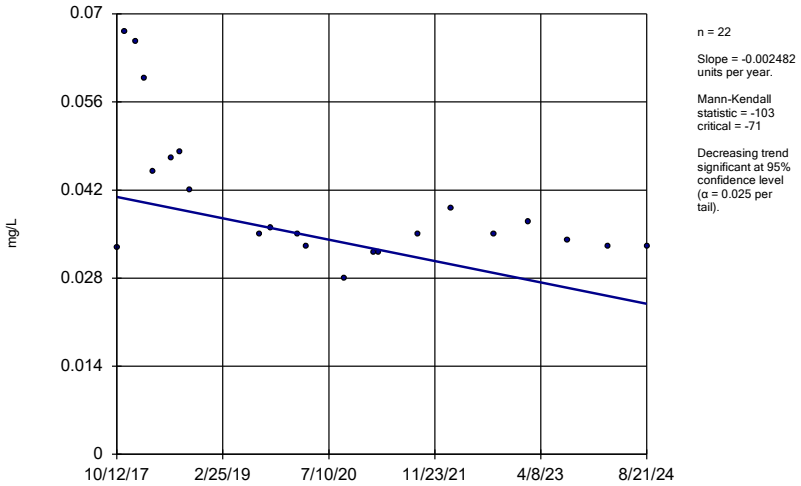
Mann-Kendall statistic = 150
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-40 (bg)



n = 22

Slope = -0.002482 units per year.

Mann-Kendall statistic = -103 critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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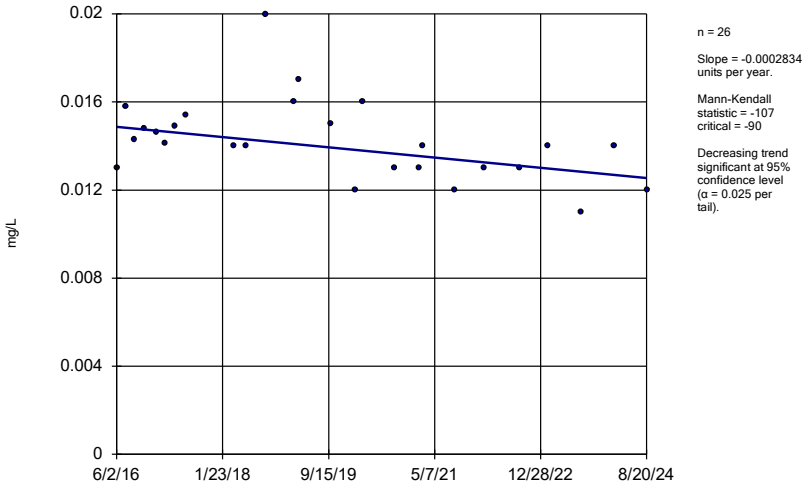
Sen's Slope Estimator

YGWA-4I (bg)



n = 26

Slope = -0.0002834 units per year.

Mann-Kendall statistic = -107 critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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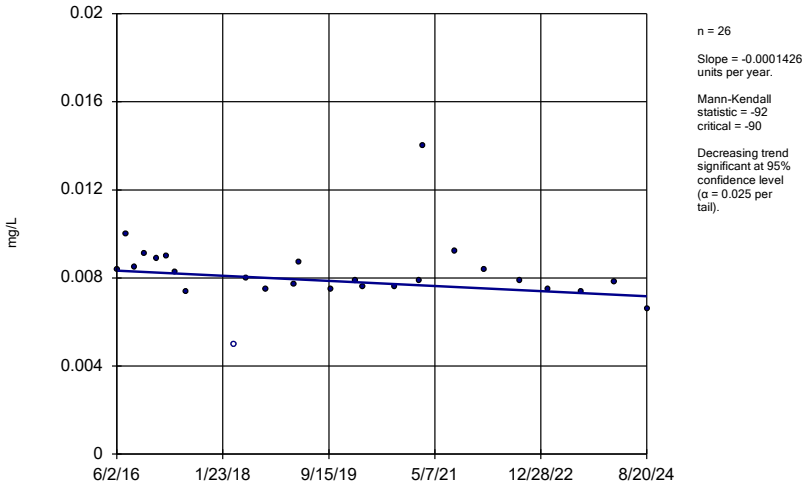
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 26

Slope = -0.0001426 units per year.

Mann-Kendall statistic = -92 critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Barium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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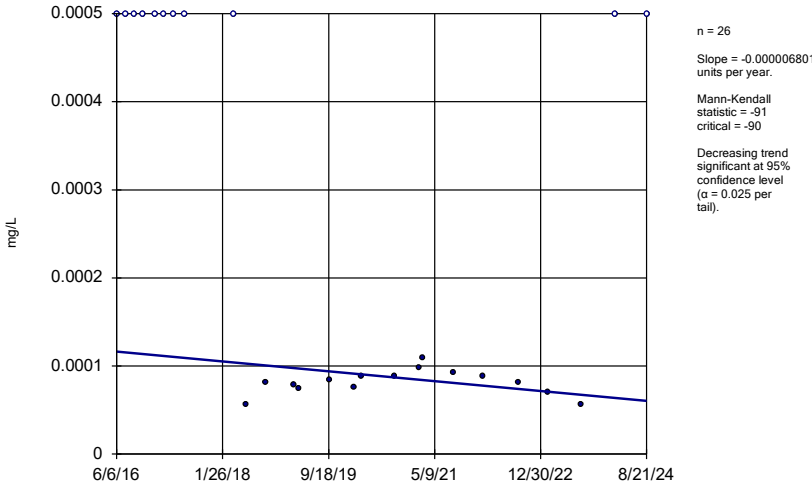
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 26

Slope = -0.000006801 units per year.

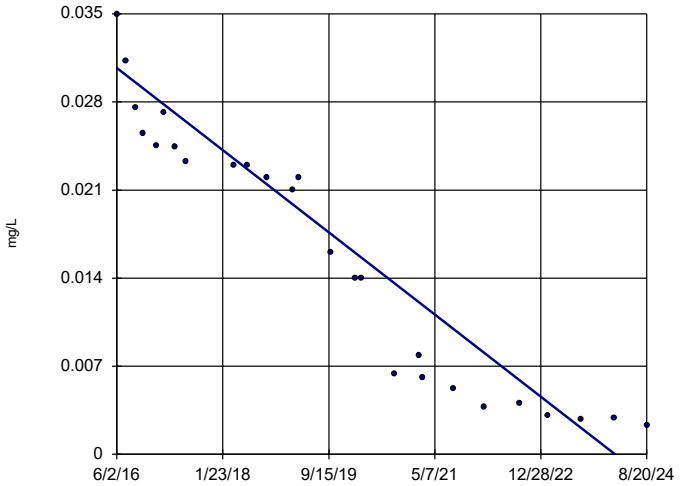
Mann-Kendall statistic = -91 critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Beryllium Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)



n = 26

Slope = -0.003971 units per year.

Mann-Kendall statistic = -310 critical = -90

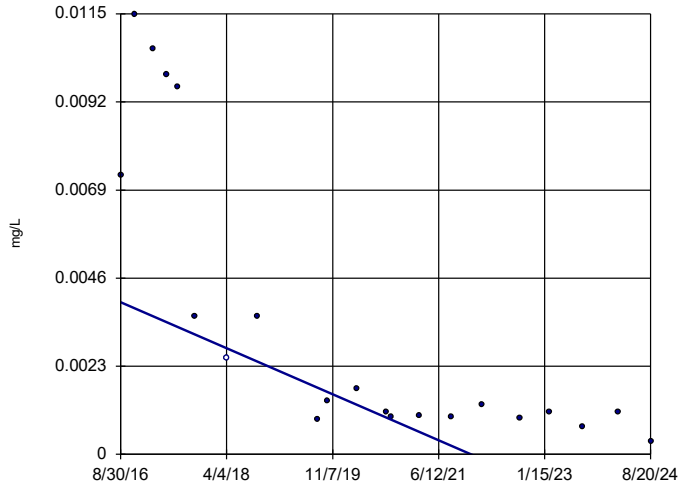
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/7/2024 3:24 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.0007522 units per year.

Mann-Kendall statistic = -144 critical = -66

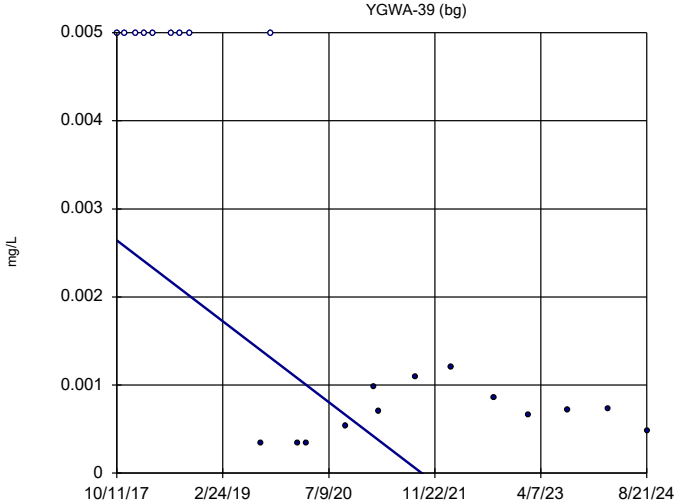
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = -0.000669 units per year.

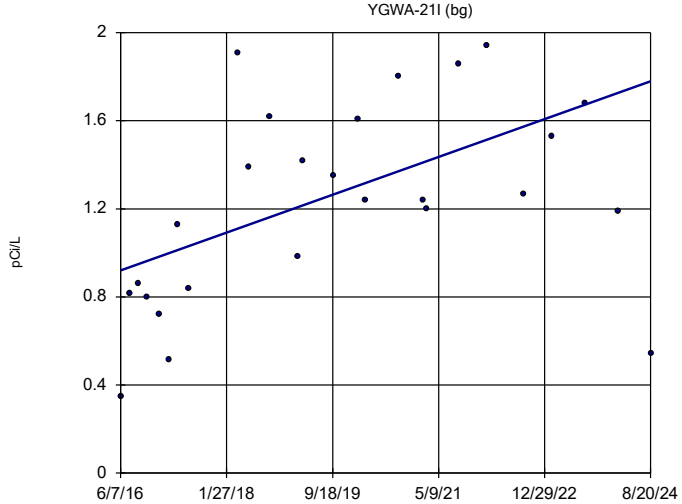
Mann-Kendall statistic = -92 critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Cobalt Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21I (bg)



n = 26

Slope = 0.1046 units per year.

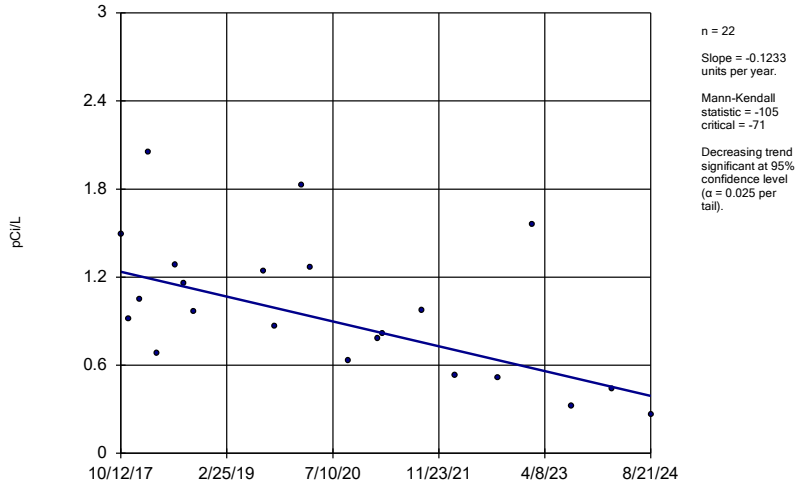
Mann-Kendall statistic = 112 critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradie
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-40 (bg)



n = 22

Slope = -0.1233 units per year.

Mann-Kendall statistic = -105 critical = -71

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradie

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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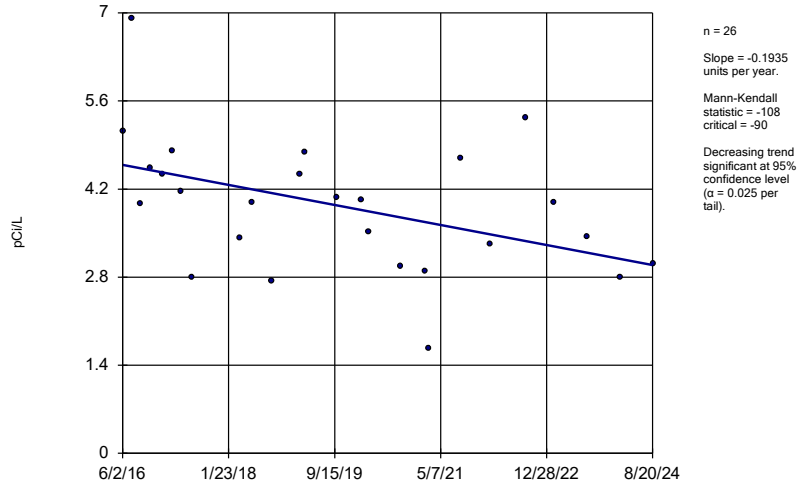
Sen's Slope Estimator

YGWA-5D (bg)



n = 26

Slope = -0.1935 units per year.

Mann-Kendall statistic = -108 critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradie

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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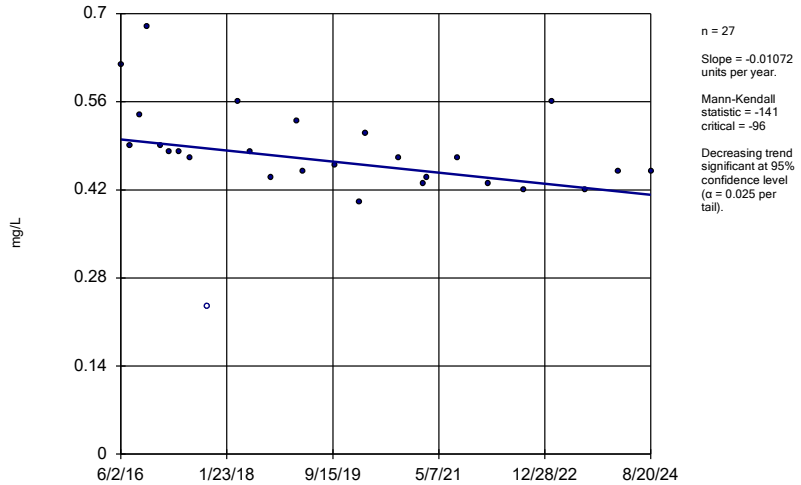
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 27

Slope = -0.01072 units per year.

Mann-Kendall statistic = -141 critical = -96

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Fluoride Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradient Wells Screening

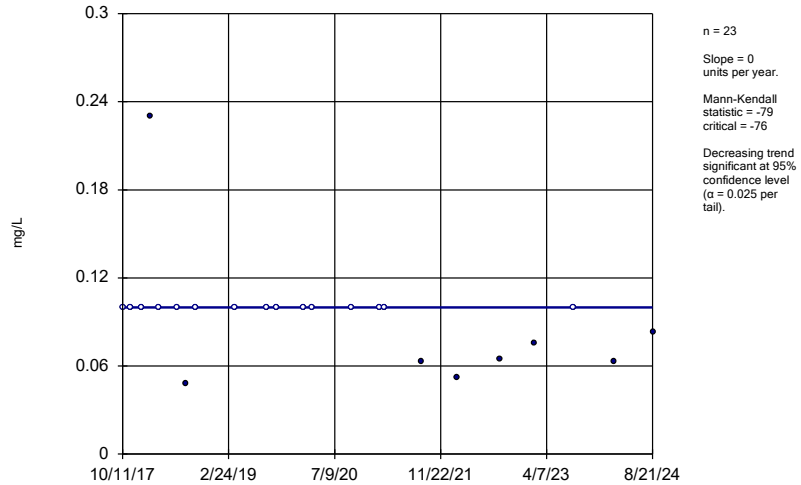
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -79 critical = -76

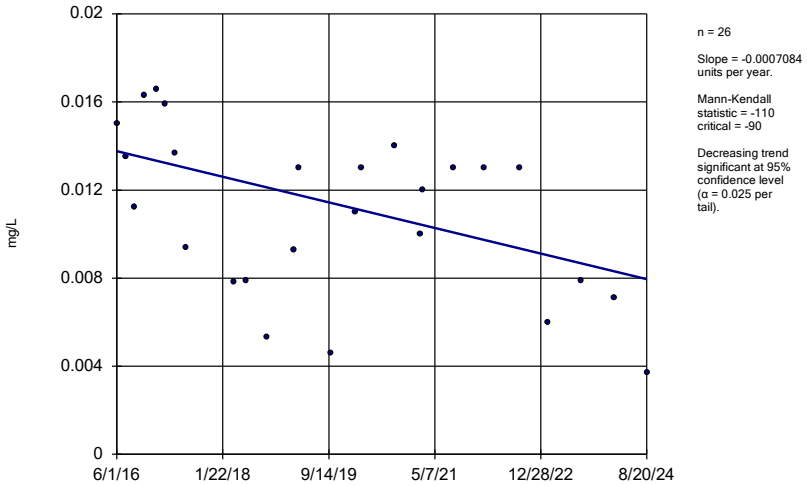
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Fluoride Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradient Wells Screening

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)



n = 26

Slope = -0.0007084 units per year.

Mann-Kendall statistic = -110
critical = -90

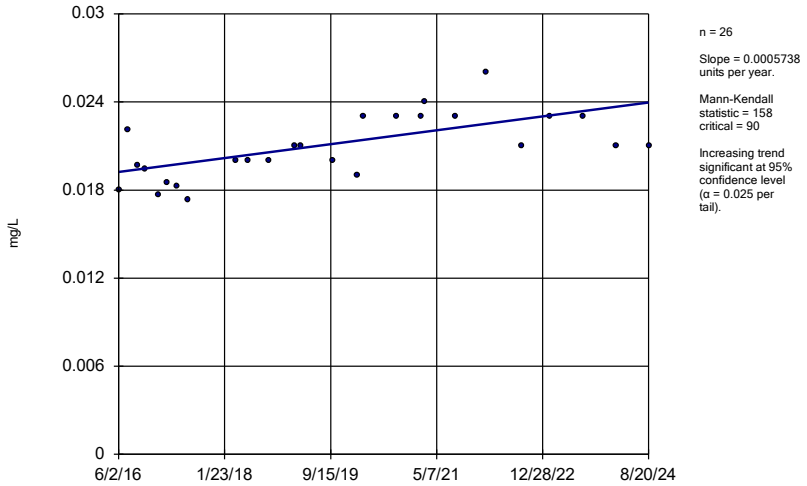
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3D (bg)



n = 26

Slope = 0.0005738 units per year.

Mann-Kendall statistic = 158
critical = 90

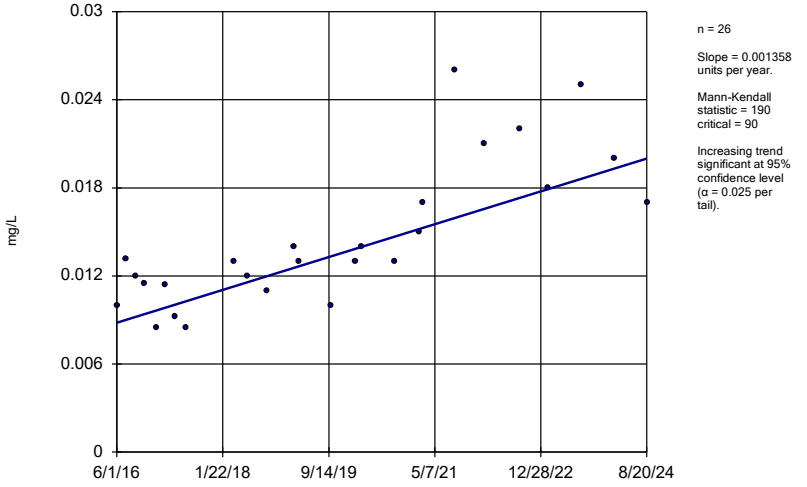
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-3I (bg)



n = 26

Slope = 0.001358 units per year.

Mann-Kendall statistic = 190
critical = 90

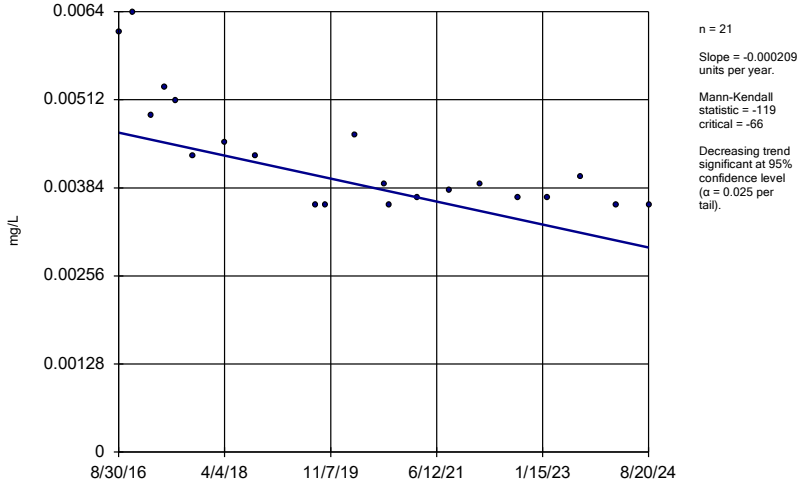
Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-47 (bg)



n = 21

Slope = -0.000209 units per year.

Mann-Kendall statistic = -119
critical = -66

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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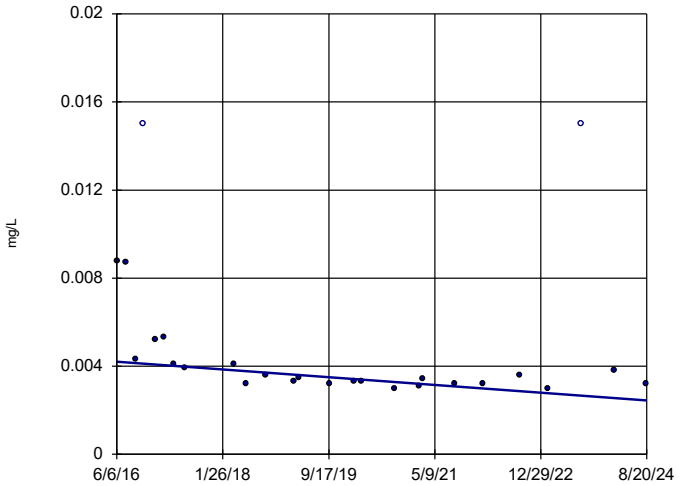
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 26

Slope = -0.000215 units per year.

Mann-Kendall statistic = -154
critical = -90

Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/7/2024 3:25 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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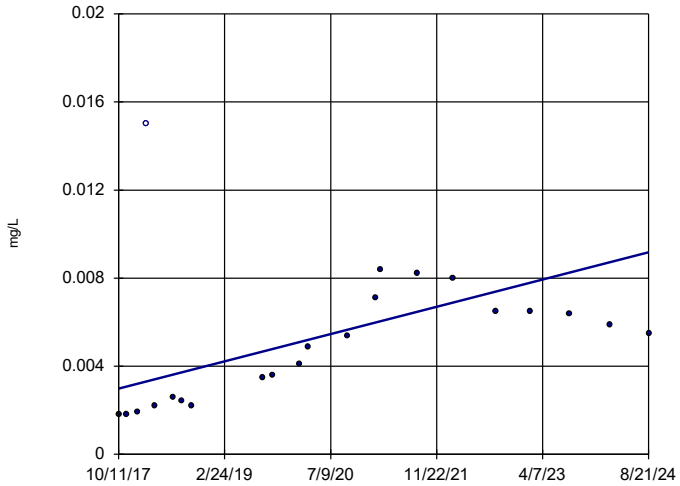
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 22

Slope = 0.0009005 units per year.

Mann-Kendall statistic = 122
critical = 71

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Lithium Analysis Run 11/7/2024 3:26 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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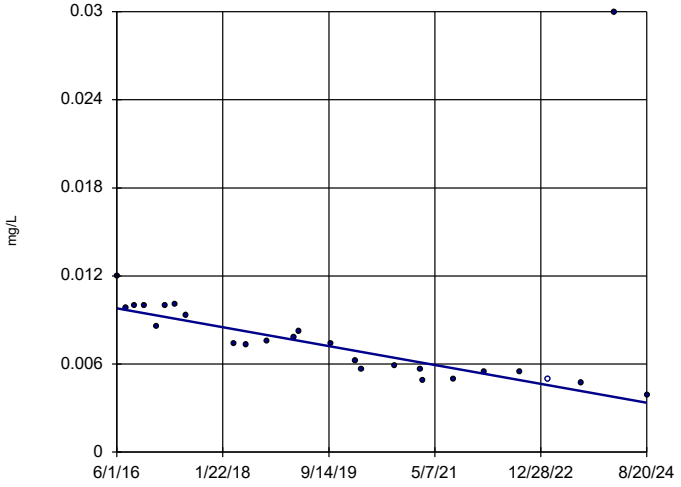
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1I (bg)



n = 26

Slope = -0.000784 units per year.

Mann-Kendall statistic = -216
critical = -90

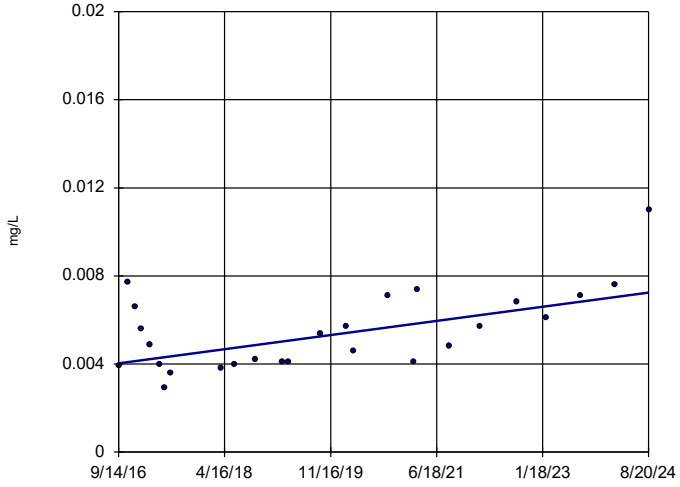
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 11/7/2024 3:26 PM View: Appendix IV - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Sen's Slope Estimator

YGWA-2I (bg)



n = 26

Slope = 0.0004044 units per year.

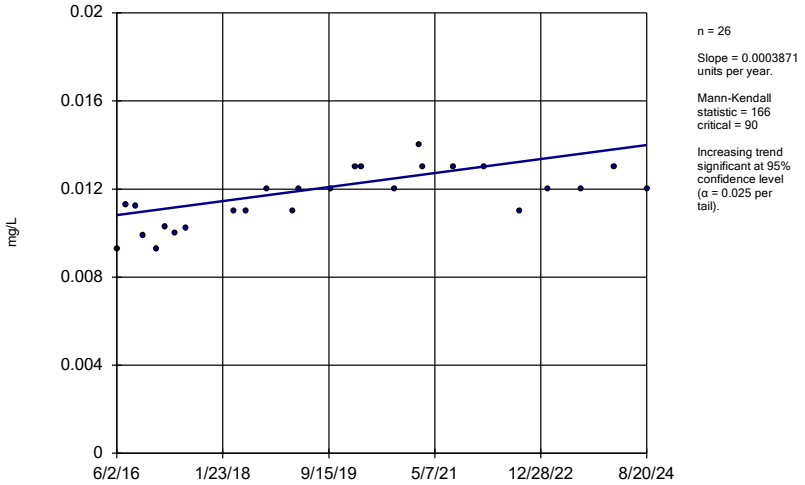
Mann-Kendall statistic = 137
critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 11/7/2024 3:26 PM View: Appendix IV - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)



n = 26

Slope = 0.0003871 units per year.

Mann-Kendall statistic = 166
critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 11/7/2024 3:26 PM View: Appendix IV - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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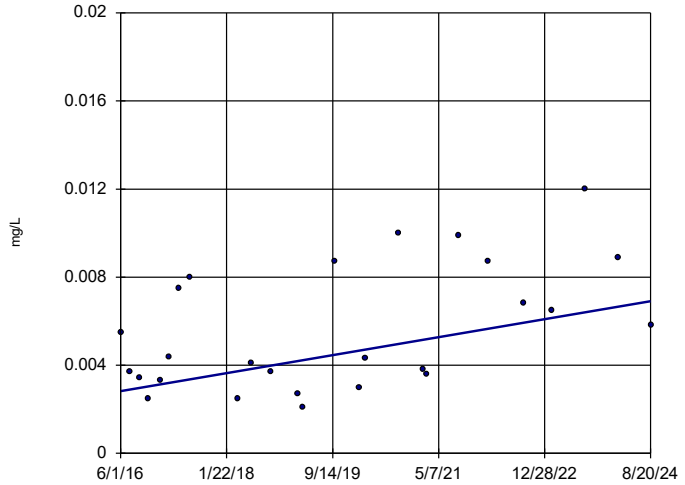
Sen's Slope Estimator

YGWA-3I (bg)



n = 26

Slope = 0.0004966 units per year.

Mann-Kendall statistic = 102
critical = 90

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 11/7/2024 3:26 PM View: Appendix IV - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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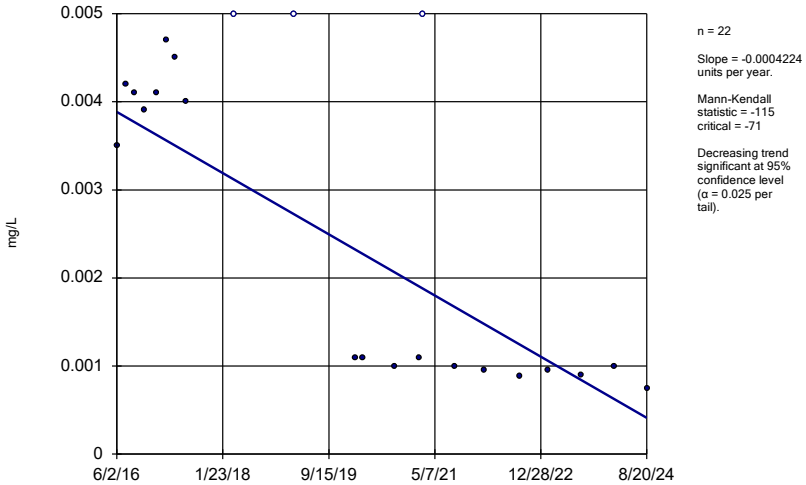
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 22

Slope = -0.0004224 units per year.

Mann-Kendall statistic = -115
critical = -71

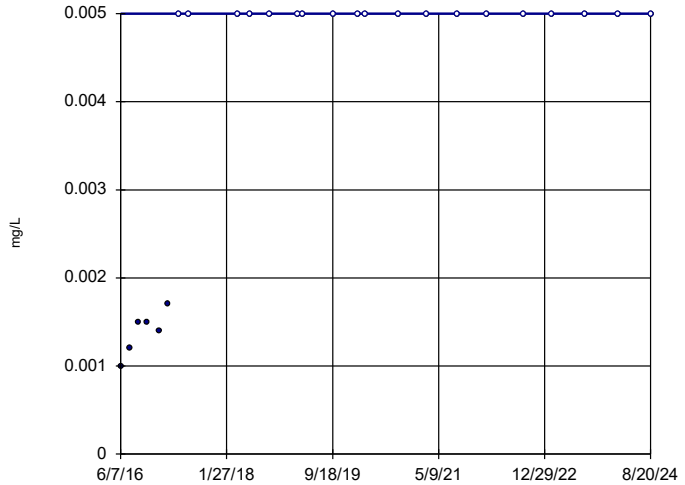
Decreasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Molybdenum Analysis Run 11/7/2024 3:26 PM View: Appendix IV - Upgradient Wells Screeni
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 25

Slope = 0
units per year.

Mann-Kendall statistic = 124
critical = 85

Increasing trend significant at 95% confidence level (α = 0.025 per tail).

Constituent: Selenium Analysis Run 11/7/2024 3:26 PM View: Appendix IV - Upgradient Wells Screening
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE E.

Appendix III Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**0.16**	**n/a**	**8/21/2024**	**0.59**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**8/21/2024**	**0.68**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**8/21/2024**	**1.9**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**8/22/2024**	**0.92**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**8/22/2024**	**1.8**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**8/22/2024**	**2.1**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**8/22/2024**	**0.82**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Chloride (mg/L)	**YGWC-26I**	**12.7**	**n/a**	**8/21/2024**	**15.8**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.7**	**n/a**	**8/21/2024**	**15.2**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-27S**	**12.7**	**n/a**	**8/22/2024**	**13.9**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-28S**	**12.7**	**n/a**	**8/22/2024**	**18.2**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**

Appendix III Interwell Prediction Limits - All Results

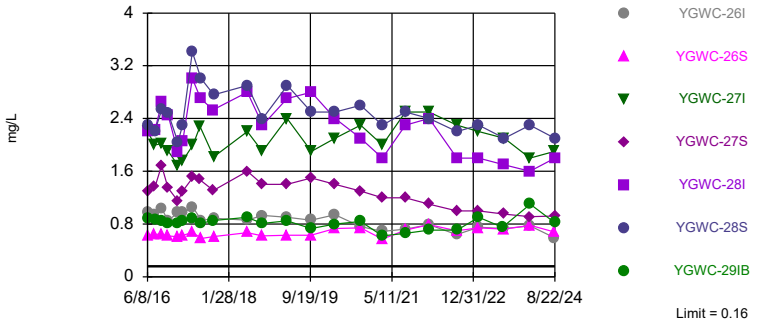
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:36 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**0.16**	**n/a**	**8/21/2024**	**0.59**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-26S**	**0.16**	**n/a**	**8/21/2024**	**0.68**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27I**	**0.16**	**n/a**	**8/21/2024**	**1.9**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-27S**	**0.16**	**n/a**	**8/22/2024**	**0.92**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28I**	**0.16**	**n/a**	**8/22/2024**	**1.8**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-28S**	**0.16**	**n/a**	**8/22/2024**	**2.1**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Boron (mg/L)	**YGWC-29IB**	**0.16**	**n/a**	**8/22/2024**	**0.82**	**Yes**	**425**	**n/a**	**n/a**	**52.71**	**n/a**	**n/a**	**0.00004918**	**NP Inter (NDs) 1 of 2**
Calcium (mg/L)	YGWC-26I	37	n/a	8/21/2024	16.7	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	8/21/2024	11.6	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	8/21/2024	26.9	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	8/22/2024	21.3	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	8/22/2024	28.8	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	8/22/2024	30.4	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29IB	37	n/a	8/22/2024	11.2	No	425	n/a	n/a	0.7059	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-26I**	**12.7**	**n/a**	**8/21/2024**	**15.8**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	**YGWC-26S**	**12.7**	**n/a**	**8/21/2024**	**15.2**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-27I	12.7	n/a	8/21/2024	12.2	No	425	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-27S**	**12.7**	**n/a**	**8/22/2024**	**13.9**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-28I	12.7	n/a	8/22/2024	10.9	No	425	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	**YGWC-28S**	**12.7**	**n/a**	**8/22/2024**	**18.2**	**Yes**	**425**	**n/a**	**n/a**	**0**	**n/a**	**n/a**	**0.00004918**	**NP Inter (normality) 1 of 2**
Chloride (mg/L)	YGWC-29IB	12.7	n/a	8/22/2024	10.5	No	425	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	8/21/2024	0.098J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	8/21/2024	0.1ND	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	8/21/2024	0.12	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	8/22/2024	0.075J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	8/22/2024	0.08J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	8/22/2024	0.14	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29IB	0.68	n/a	8/22/2024	0.071J	No	494	n/a	n/a	62.96	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	8.39	4.4	8/21/2024	6.31	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	8.39	4.4	8/21/2024	6.17	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	8.39	4.4	8/21/2024	7.28	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	8.39	4.4	8/22/2024	6.27	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	8.39	4.4	8/22/2024	6.19	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	8.39	4.4	8/22/2024	6.23	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29IB	8.39	4.4	8/22/2024	5.86	No	505	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	160	n/a	8/21/2024	83.5	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	8/21/2024	90.9	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	8/21/2024	4.2	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	8/22/2024	15.7	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	8/22/2024	9	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	8/22/2024	5.5	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29IB	160	n/a	8/22/2024	39.7	No	425	n/a	n/a	6.118	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	319	n/a	8/21/2024	237	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	319	n/a	8/21/2024	215	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	319	n/a	8/21/2024	184	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	319	n/a	8/22/2024	130	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	319	n/a	8/22/2024	193	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	319	n/a	8/22/2024	226	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29IB	319	n/a	8/22/2024	154	No	424	n/a	n/a	0.4717	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29IB

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 425 background values. 52.71% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

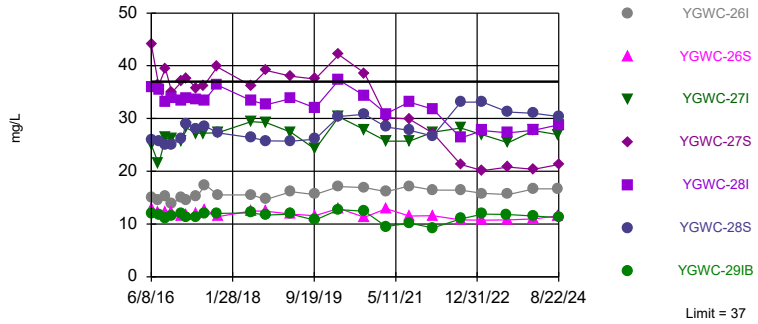
Constituent: Boron Analysis Run 11/7/2024 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 425 background values. 0.7059% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

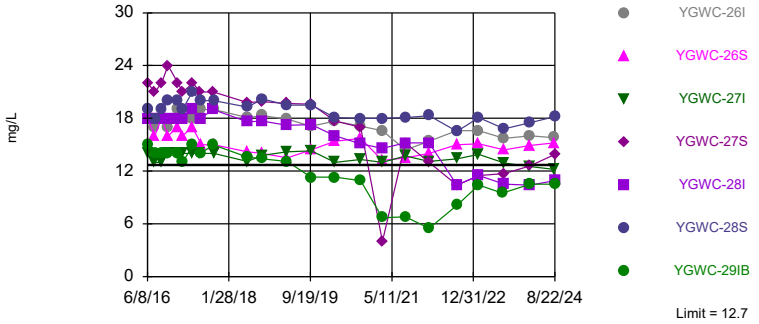
Constituent: Calcium Analysis Run 11/7/2024 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27S, YGWC-28S

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 425 background values. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 11/7/2024 3:28 PM View: Appendix III

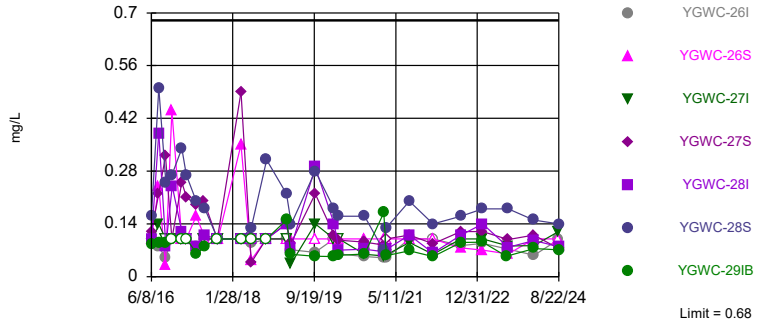
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 494 background values. 62.96% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 11/7/2024 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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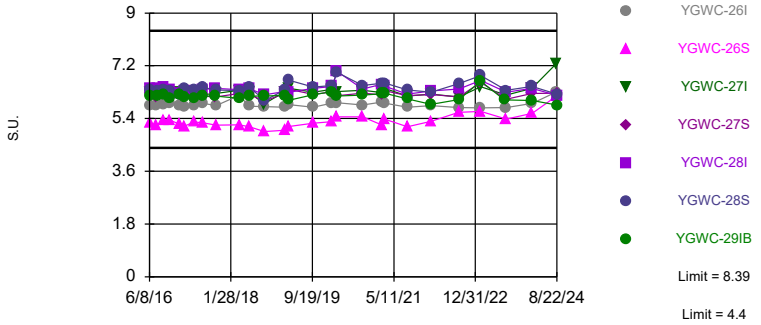
Within Limits

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 505 background values. Annual per-constituent alpha = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 11/7/2024 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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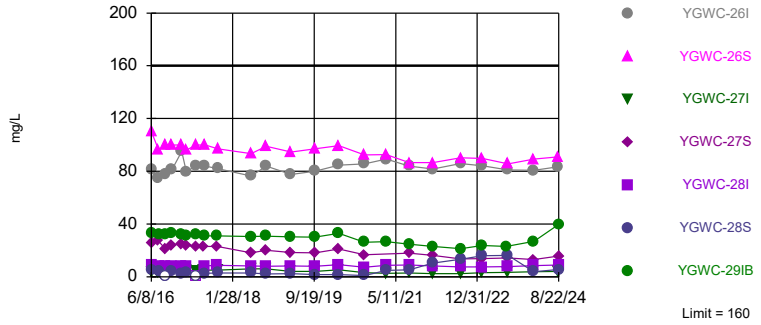
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 425 background values. 6.118% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 11/7/2024 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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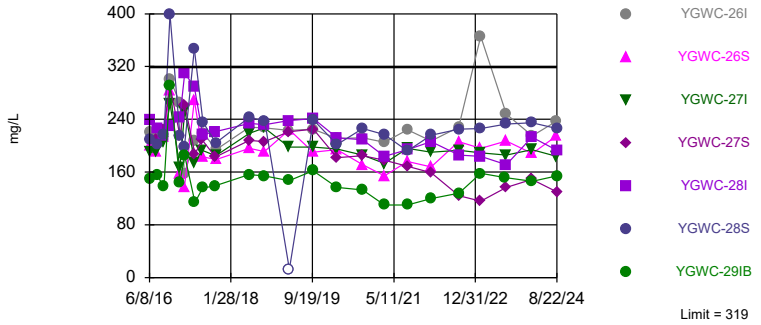
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 424 background values. 0.4717% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/7/2024 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04	<0.04	<0.04	<0.04
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		<0.04	<0.04					<0.04	
7/26/2016	0.0055 (J)			0.0177 (J)	0.0052 (J)	<0.04	0.0097 (J)		0.0047 (J)
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	<0.04		<0.04						
9/14/2016		<0.04			0.0071 (J)	0.01 (J)			<0.04
9/15/2016				0.0214 (J)			0.0102 (J)		
9/16/2016									
9/19/2016								<0.04	
9/20/2016									
9/21/2016									
11/1/2016	0.0086 (J)	<0.04					<0.04	<0.04	
11/2/2016				<0.04	<0.04				<0.04
11/3/2016									
11/4/2016			<0.04			<0.04			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				0.0198 (J)					
1/11/2017	0.0074 (J)	<0.04					<0.04		
1/12/2017					0.0076 (J)	<0.04			
1/13/2017									<0.04
1/16/2017			<0.04					<0.04	
1/18/2017									
1/19/2017									
2/21/2017								<0.04	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		<0.04							
3/2/2017	0.008 (J)		<0.04				0.0084 (J)		
3/3/2017									
3/6/2017									<0.04
3/7/2017					0.0089 (J)	<0.04			
3/8/2017				0.0189 (J)					
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			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	0.0087 (J)		0.006 (J)		0.0079 (J)	<0.04			
6/28/2017		<0.04					<0.04		
6/29/2017									<0.04
6/30/2017				0.0173 (J)				<0.04	
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	0.0072 (J)		0.0071 (J)		0.0094 (J)	<0.04			
10/4/2017		<0.04					<0.04	<0.04	
10/5/2017				0.0173 (J)					<0.04
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018	0.0052 (J)								
6/6/2018			<0.04		0.0098 (J)				
6/7/2018						<0.04	0.004 (J)		0.0045 (J)
6/8/2018		<0.04		0.013 (J)					
6/11/2018								0.014 (J)	
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					0.01 (J)	0.0057 (J)			0.005 (J)
10/1/2018	0.021 (J)	<0.04	0.0049 (J)	0.015 (J)			<0.04		
10/2/2018								<0.04	
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	0.005 (J)		<0.04						
3/29/2019				0.014 (J)					
4/1/2019		<0.04					<0.04	<0.04	

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
4/2/2019									
4/3/2019					0.0076 (J)	0.0044 (J)			0.0055 (J)
6/12/2019									
9/24/2019	0.0064 (J)		0.0055 (J)		0.01 (J)	0.0049 (J)			
9/25/2019		<0.04		0.018 (J)			0.0054 (J)	<0.04	<0.04
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)					0.0073 (J)	0.0052 (J)	
3/20/2020									
3/24/2020					0.011 (J)	0.0068 (J)			
3/25/2020									0.011 (J)
9/22/2020					0.0079 (J)	0.0053 (J)			<0.04
9/23/2020	<0.04	0.0073 (J)	<0.04				0.012 (J)		
9/24/2020								0.0075 (J)	
9/25/2020				0.02 (J)					
3/1/2021								<0.04	
3/2/2021				0.017 (J)	0.0068 (J)	0.011 (J)			
3/3/2021	<0.04	<0.04	<0.04				<0.04		0.0056 (J)
3/4/2021									
8/19/2021	<0.04		<0.04	0.018 (J)			<0.04	<0.04	
8/20/2021									
8/26/2021					0.009 (J)	<0.04			<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				0.02 (J)	0.011 (J)	<0.04			
2/11/2022								<0.04	<0.04
8/30/2022	<0.04				0.0098 (J)	<0.04			
8/31/2022		<0.04	<0.04	0.015 (J)			<0.04	<0.04	<0.04
9/1/2022									
2/7/2023	<0.04		<0.04		<0.04				
2/8/2023		<0.04		0.015 (J)			<0.04	<0.04	
2/9/2023						<0.04			<0.04
8/2/2023									
8/15/2023	<0.04		0.0094 (J)	0.017 (J)	<0.04	<0.04	<0.04		<0.04
8/16/2023		<0.04						<0.04	
8/17/2023									
2/20/2024	0.015 (J)	<0.04	0.014 (J)		<0.04	<0.04	<0.04	<0.04	<0.04
2/21/2024									
2/22/2024									
2/23/2024				0.037 (J)					
8/20/2024	<0.04	<0.04	<0.04	0.014 (J)	<0.04	<0.04	<0.04	<0.04	<0.04
8/21/2024									
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	<0.04	<0.04							
6/7/2016			<0.04	<0.04	<0.04				
6/8/2016						0.97	0.62	2.2	1.3
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.04	<0.04	0.008 (J)					
7/28/2016					<0.04				
8/1/2016						0.932	0.643	2	1.36
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	0.0079 (J)			0.0086 (J)					
9/19/2016		<0.04	<0.04		<0.04				
9/20/2016						1.04	0.644	2.02	1.69
9/21/2016									
11/1/2016									
11/2/2016			<0.04						
11/3/2016	0.0082 (J)	<0.04		0.0077 (J)	<0.04				
11/4/2016									
11/7/2016						0.852	0.621	1.91	1.35
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.04		0.0092 (J)					
1/12/2017									
1/13/2017			<0.04		<0.04				
1/16/2017									
1/18/2017						0.972	0.607	1.69	
1/19/2017									1.15
2/21/2017						0.972	0.624		
2/22/2017									1.3
2/23/2017								1.76	
2/24/2017									
3/1/2017	<0.04	<0.04							
3/2/2017				0.0095 (J)					
3/3/2017									
3/6/2017			<0.04		<0.04				
3/7/2017									
3/8/2017									
4/26/2017	0.0091 (J)	<0.04	<0.04		<0.04				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				<0.04					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
5/3/2017							0.676		
5/5/2017									
5/8/2017						1.05		2	1.51
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.04							
6/29/2017			<0.04	0.0074 (J)	<0.04				
6/30/2017								2.28	1.47
7/5/2017									
7/7/2017									
7/10/2017						0.855	0.58		
7/11/2017									
7/17/2017									
10/3/2017					<0.04				
10/4/2017	0.009 (J)		<0.04	0.0077 (J)					
10/5/2017		<0.04							
10/6/2017									1.31
10/9/2017								1.82	
10/10/2017						0.887	0.612		
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018					0.0092 (J)				
6/6/2018			0.0049 (J)						
6/7/2018		<0.04							
6/8/2018									
6/11/2018	0.0093 (J)			0.01 (J)					
6/12/2018									1.6
6/13/2018						0.86	0.67	2.2	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	0.007 (J)	0.0046 (J)	<0.04	0.0096 (J)	0.0054 (J)				
9/26/2018									
10/1/2018									
10/2/2018						0.93	0.62	1.9	1.4
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								2.4	1.4

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
4/2/2019				0.0066 (J)	0.011 (J)	0.9	0.63		
4/3/2019	0.0053 (J)	<0.04	<0.04						
6/12/2019									
9/24/2019					0.018 (J)				
9/25/2019			<0.04	0.0081 (J)		0.86	0.63		
9/26/2019	0.0072 (J)	0.0062 (J)						1.9	1.5
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							0.73		
3/20/2020						0.94		2.1	1.4
3/24/2020	0.01 (J)	0.0054 (J)	<0.04	0.0092 (J)	0.016 (J)				
3/25/2020									
9/22/2020									
9/23/2020	0.006 (J)	0.021 (J)		0.0066 (J)					
9/24/2020			0.0094 (J)		0.013 (J)	0.76	0.74	2.3	1.3
9/25/2020									
3/1/2021									
3/2/2021							0.57		
3/3/2021	0.0094 (J)	<0.04	<0.04	0.01 (J)		0.69		2	1.2
3/4/2021					0.0079 (J)				
8/19/2021							0.71		
8/20/2021						0.72		2.5	1.2
8/26/2021	<0.04								
8/27/2021		<0.04	<0.04	0.011 (J)					
9/1/2021					<0.04				
9/3/2021									
2/8/2022									1.1
2/9/2022	<0.04	<0.04	<0.04	0.0098 (J)	<0.04				
2/10/2022						0.79	0.79	2.5	
2/11/2022									
8/30/2022	0.014 (J)	<0.04		0.013 (J)	0.012 (J)				
8/31/2022			<0.04			0.64	0.7		
9/1/2022								2.3	1
2/7/2023	<0.04	<0.04	<0.04	0.014 (J)	<0.04				
2/8/2023									
2/9/2023						0.75	0.74	2.2	1
8/2/2023									
8/15/2023	<0.04	<0.04	<0.04	<0.04	0.046 (J)				
8/16/2023									
8/17/2023						0.73	0.72	2.1	0.95
2/20/2024		<0.04	<0.04	<0.04	<0.04				
2/21/2024								1.8	0.91
2/22/2024						0.77	0.78		
2/23/2024	0.018 (J)								
8/20/2024		<0.04	<0.04	<0.04	<0.04				
8/21/2024	<0.04					0.59	0.68	1.9	
8/22/2024									0.92

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	2.3	2.2	0.88					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	2.21	2.22	0.872					
8/30/2016				0.0166 (J)				
8/31/2016					0.0315 (J)			
9/13/2016								
9/14/2016						<0.04		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	2.54	2.65	0.853					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.04		
11/7/2016	2.49		0.815					
11/8/2016		2.44						
11/14/2016				0.0166 (J)				
11/28/2016					0.0095 (J)			
12/15/2016						0.0107 (J)		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						<0.04		
1/18/2017	2.04	1.88						
1/19/2017			0.803					
2/21/2017	2.29							
2/22/2017		2.05	0.855		<0.04			
2/23/2017								
2/24/2017				0.0145 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.04		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						<0.04		
5/1/2017								
5/2/2017								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	3.41	3.01						
5/8/2017			0.884	0.0141 (J)	0.0084 (J)			
5/26/2017						<0.04		
6/27/2017								
6/28/2017						<0.04		
6/29/2017								
6/30/2017								
7/5/2017		2.7	0.811					
7/7/2017	3.01							
7/10/2017								
7/11/2017				0.0131 (J)				
7/17/2017					0.0092 (J)			
10/3/2017						<0.04		
10/4/2017								
10/5/2017		2.53	0.851					
10/6/2017								
10/9/2017	2.76							
10/10/2017				0.0124 (J)				
10/11/2017							0.0135 (J)	
10/12/2017								0.0401
10/16/2017					<0.04			
11/20/2017							0.0251 (J)	0.156
1/10/2018								0.15
1/11/2018							0.0255 (J)	
2/19/2018					<0.04			0.146
2/20/2018							<0.04	
4/2/2018				0.013 (J)				
4/3/2018							0.033 (J)	0.12
6/5/2018								
6/6/2018								
6/7/2018						<0.04		
6/8/2018								
6/11/2018			0.9					
6/12/2018	2.9	2.8						
6/13/2018								
6/28/2018							0.053	0.16
8/6/2018					<0.04			
8/7/2018							0.024 (J)	0.12
9/19/2018				0.012 (J)				
9/24/2018							0.028 (J)	0.099
9/25/2018								
9/26/2018								
10/1/2018						<0.04		
10/2/2018			0.81					
10/3/2018	2.4	2.3						
2/25/2019					<0.04			
3/26/2019								0.096
3/27/2019				0.013 (J)			0.017 (J)	
3/28/2019								
3/29/2019						0.0065 (J)		
4/1/2019		2.7	0.85					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	2.9							
4/3/2019								
6/12/2019					<0.04			
9/24/2019						0.0076 (J)		
9/25/2019			0.73					
9/26/2019	2.5	2.8						
10/8/2019				0.012 (J)	<0.04			
10/9/2019							0.017 (J)	0.079
3/17/2020				0.023 (J)	0.0051 (J)			
3/18/2020								
3/19/2020	2.5	2.4				0.0073 (J)		
3/20/2020			0.8					
3/24/2020								0.088 (J)
3/25/2020							0.043 (J)	
9/22/2020				0.0076 (J)	0.0079 (J)			
9/23/2020						<0.04		
9/24/2020	2.6	2.1	0.84				0.037 (J)	0.087 (J)
9/25/2020								
3/1/2021				0.013 (J)				
3/2/2021					<0.04			
3/3/2021	2.3	1.8	0.62			<0.04		
3/4/2021							0.033 (J)	0.078
8/19/2021				0.011 (J)				
8/20/2021	2.5	2.3	0.66		<0.04			
8/26/2021							0.095	
8/27/2021						<0.04		
9/1/2021								
9/3/2021								0.077
2/8/2022	2.4	2.4	0.71	0.015 (J)	<0.04		0.13	0.074
2/9/2022						<0.04		
2/10/2022								
2/11/2022								
8/30/2022					<0.04	<0.04		
8/31/2022				0.0091 (J)			0.14	0.062
9/1/2022	2.2	1.8	0.71					
2/7/2023					<0.04	<0.04	0.13	
2/8/2023			0.9	0.011 (J)				0.057
2/9/2023	2.3	1.8						
8/2/2023			0.75					
8/15/2023				<0.04	<0.04	<0.04	0.15 (J)	0.052 (J)
8/16/2023	2.1	1.7						
8/17/2023								
2/20/2024				0.023 (J)	0.017 (J)	<0.04	0.12	0.056
2/21/2024	2.3	1.6						
2/22/2024			1.1					
2/23/2024								
8/20/2024				<0.04		<0.04		
8/21/2024							0.13	0.061
8/22/2024	2.1	1.8	0.82					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
6/1/2016	12	21	2.5						
6/2/2016				1.3	33	2.4	28	1.3	8.8
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		20.3	2.16					1.17	
7/26/2016	11			1.24	32.3	2.12	24.5		7.69
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	11.8		2.21						
9/14/2016		19.7			31	2.18			8.49
9/15/2016				1.17			27		
9/16/2016									
9/19/2016								1.05	
9/20/2016									
9/21/2016									
11/1/2016	11	18.4					25.6	1.14	
11/2/2016				1.23	30.9				7.83
11/3/2016									
11/4/2016			2.67			2.17 (J)			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				1.24					
1/11/2017	11.2	20.3					27.5		
1/12/2017					35.7	2.37			
1/13/2017									8.08
1/16/2017			2.45					1.23	
1/18/2017									
1/19/2017									
2/21/2017								1.25	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		18.6							
3/2/2017	11		2.57				27.5		
3/3/2017									
3/6/2017									8.64
3/7/2017					32.7	2.34			
3/8/2017				1.21					
4/26/2017		25.6		1.14			30.4	1.03	
4/27/2017	11.1		2.38						
4/28/2017									
5/1/2017					37				13.4
5/2/2017						2.17			

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	13.8		2.36		36.5	2.13			
6/28/2017		23.9					29.8		
6/29/2017									8.81
6/30/2017				1.24				1.13	
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	14		2.21		30.9	2.15			
10/4/2017		22.1					29.7	1.09	
10/5/2017				1.11					9.29
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018	15.2 (J)								
6/6/2018			2.3		26.2				
6/7/2018						2.3	29.1		8.2
6/8/2018		21.9 (J)		1.1					
6/11/2018								1.1	
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					25.8	2.3			9.5 (J)
10/1/2018	15.1	19.7	1.8	0.99			26.9		
10/2/2018								1.1	
10/3/2018									
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)					30.1	1.3	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
4/2/2019									
4/3/2019					24.7 (J)	2.8			8.4
6/12/2019									
9/24/2019	15.8		2.3		25.8	2.5			
9/25/2019		22.4		1.1			29.5	1.1	9.5
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					31.5	1.2	
3/20/2020									
3/24/2020					26.1	2.5			
3/25/2020									10.5
9/22/2020					27.2	2.6			9.6
9/23/2020	14.1	23.6	1.8				28.6		
9/24/2020								1.1	
9/25/2020				1.3					
3/1/2021								1.2	
3/2/2021				1.2	1.6	2.6			
3/3/2021	14.1	20.6	1.8				29.8		7.7
3/4/2021									
8/19/2021	14.2		2	1.2			28.1	1.2	
8/20/2021									
8/26/2021					25.2	2.5			7.6
8/27/2021		24.7							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	14.9	23.7	2.1				30.3		
2/10/2022				1.3	24.8	2.5			
2/11/2022								1.5	7.5
8/30/2022	14.9				24.8	2.5			
8/31/2022		23.5	1.9	1.3			28.7	1.3	8.9
9/1/2022									
2/7/2023	15		2.2		26.6				
2/8/2023		23.3		1.5			28.9	1.3	
2/9/2023						2.8			9.6
8/2/2023									
8/15/2023	13.5		1.8	1.3	25	2.6	27.4		7.8
8/16/2023		24.9						1.4	
8/17/2023									
2/20/2024	15.3	23.7	2.2		27.2	2.7	30.7	1.3	9.9
2/21/2024									
2/22/2024									
2/23/2024				1.6					
8/20/2024	17.7	23.4	1.9	1.3	29.1	3.2	30	1.4	9.1
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			2.3	2.2	3.7				
6/8/2016						15	13	25	44
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2.08	2					
7/28/2016					3.15				
8/1/2016						14.5	12.2	21.4	36.3
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	1.5			1.97					
9/19/2016		4.76	1.97		3.17				
9/20/2016						15.3	12.2	26.3	39.5
9/21/2016									
11/1/2016									
11/2/2016			2.13						
11/3/2016	1.31	5.25		1.99	3.4				
11/4/2016									
11/7/2016						13.8	12.1	26.1	34.9
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74		2.28					
1/12/2017									
1/13/2017			2.45		4.98				
1/16/2017									
1/18/2017						15.1	11.5	25.6	
1/19/2017									37
2/21/2017						14.6	11.7		
2/22/2017									37.6
2/23/2017								28.2	
2/24/2017									
3/1/2017	1.26	5.37							
3/2/2017				2.15					
3/3/2017									
3/6/2017			2.48		6.28				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28	2.3		6.65				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				1.95					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:36 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
5/3/2017							11.9		
5/5/2017									
5/8/2017						15.2		27.2	35.7
5/26/2017									
6/27/2017									
6/28/2017	1.06	4.95							
6/29/2017			2.54	2.02	6.04				
6/30/2017								27.2	36.2
7/5/2017									
7/7/2017									
7/10/2017						17.4	12.7		
7/11/2017									
7/17/2017									
10/3/2017					8.28				
10/4/2017	1.1		2.25	2.03					
10/5/2017		5.28							
10/6/2017									39.8
10/9/2017								27.3	
10/10/2017						15.5	11.4		
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018					9.1				
6/6/2018			2.3						
6/7/2018		4.8							
6/8/2018									
6/11/2018	1.4			2.1					
6/12/2018									36.2
6/13/2018						15.5	12.5	29.4	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1	4.6	2.3	2.1	10.4 (J)				
9/26/2018									
10/1/2018									
10/2/2018						14.7	12.4 (J)	29.2	39.1
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								27.4	38

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
4/2/2019				2.5	8.8	16.1 (J)	11.9 (J)		
4/3/2019	1.2	5.3	2.9						
6/12/2019									
9/24/2019					7.7				
9/25/2019			2.4	2.6		15.6	11.6		
9/26/2019	1.1	4.9						24.2	37.5
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							13		
3/20/2020						17.1		30.3	42.1
3/24/2020	1	5.3	2.6	2.7	6				
3/25/2020									
9/22/2020									
9/23/2020	0.91 (J)	5.2		2.6					
9/24/2020			2.6		7.8	16.9	11.3	27.9	38.6
9/25/2020									
3/1/2021									
3/2/2021							12.9		
3/3/2021	0.96 (J)	5.2	2.4	2.5		16.1		25.7	30.2
3/4/2021					8.7				
8/19/2021							11.5		
8/20/2021						17.2		25.7	29.9
8/26/2021	0.98 (J)								
8/27/2021		5.1	2.4	2.7					
9/1/2021					9.5				
9/3/2021									
2/8/2022									27.2
2/9/2022	0.87 (J)	5.1	2.3	2.8	9.8				
2/10/2022						16.4	11.6	27.4	
2/11/2022									
8/30/2022	0.77 (J)	5.7		3	7.3				
8/31/2022			2.4			16.4	10.8		
9/1/2022								28.2	21.3
2/7/2023	0.79 (J)	5.5	2.4	2.9	7.5				
2/8/2023									
2/9/2023						15.8	10.7	26.9	20.1
8/2/2023									
8/15/2023	0.8 (J)	5.1	2.2	2.9	6.1				
8/16/2023									
8/17/2023						15.6	10.8	25.4	20.8
2/20/2024		5.6	2.5	3.2	7				
2/21/2024								27.7	20.4
2/22/2024						16.7	11		
2/23/2024	0.84 (J)								
8/20/2024		5.9	2.8	3.5	6.9				
8/21/2024	0.96 (J)					16.7	11.6	26.9	
8/22/2024									21.3

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	26	36	12					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	25.8	35.5	11.7					
8/30/2016				20.9				
8/31/2016					9.31			
9/13/2016								
9/14/2016						23.5		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	24.9	33.2	11.1					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						23.7		
11/7/2016	25.1		11.4					
11/8/2016		33.8						
11/14/2016				18.6				
11/28/2016					9.47 (B)			
12/15/2016						23.1		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						23.3		
1/18/2017	26.1	33.4						
1/19/2017			12					
2/21/2017	29							
2/22/2017		33.8	11.2		10.4			
2/23/2017								
2/24/2017				16.1				
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								

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	28.1	33.5						
5/8/2017			11.2	14.6	14.2			
5/26/2017						26.2		
6/27/2017								
6/28/2017						26.1		
6/29/2017								
6/30/2017								
7/5/2017		33.4	11.9					
7/7/2017	28.6							
7/10/2017								
7/11/2017				14.3				
7/17/2017					14.1			
10/3/2017						26.7		
10/4/2017								
10/5/2017		36.4	12					
10/6/2017								
10/9/2017	27.3							
10/10/2017				12.1				
10/11/2017							2.74	
10/12/2017								2.9
10/16/2017					13.6			
11/20/2017							1.81	10.4
1/10/2018								10.2
1/11/2018							1.54	
2/19/2018					<25			<25
2/20/2018							1.71	
4/2/2018				<25				
4/3/2018							1.4	6.3
6/5/2018								
6/6/2018								
6/7/2018						25		
6/8/2018								
6/11/2018			12.1					
6/12/2018	26.4	33.4						
6/13/2018								
6/28/2018							1.4	6.7
8/6/2018					11.4 (J)			
8/7/2018							1.2	6.3
9/19/2018				11.1 (J)				
9/24/2018							1.1	5.7
9/25/2018								
9/26/2018								
10/1/2018						25		
10/2/2018			11.7 (J)					
10/3/2018	25.8	32.6						
2/25/2019					12.7 (J)			
3/26/2019								5.6
3/27/2019				10.8 (J)			1.5	
3/28/2019								
3/29/2019						23.5 (J)		
4/1/2019		33.8	11.9 (J)					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	25.7							
4/3/2019								
6/12/2019					18.9			
9/24/2019						26.4		
9/25/2019			10.7					
9/26/2019	26.1	32						
10/8/2019				9.7	28.3			
10/9/2019							2.4	4.9
3/17/2020				14.8	24.3			
3/18/2020								
3/19/2020	30.4	37.3				27.4		
3/20/2020			12.7					
3/24/2020								4.8
3/25/2020							2.7	
9/22/2020				10.1	31			
9/23/2020						26.3		
9/24/2020	30.8	34.3	12.4				3.7	4.4
9/25/2020								
3/1/2021				10.3				
3/2/2021					34.2			
3/3/2021	28.4	30.9	9.5			25.6		
3/4/2021							8.2	4.6
8/19/2021				9.6				
8/20/2021	27.8	33.1	10.2		26.5			
8/26/2021							14.1	
8/27/2021						22.6		
9/1/2021								
9/3/2021								5.6
2/8/2022	26.7	31.8	9.3	9.4	25.6		15.2	6
2/9/2022						23.4		
2/10/2022								
2/11/2022								
8/30/2022					23.5	25.4		
8/31/2022				9.6			16.3	6.2
9/1/2022	33.1	26.3	11					
2/7/2023					22.3	25.6	16.1	
2/8/2023			11.9	9.2				5.9
2/9/2023	33.1	27.7						
8/2/2023			11.8					
8/15/2023				9.6	20.3	23.2	17.2	5.3
8/16/2023	31.2	27.3						
8/17/2023								
2/20/2024				10.3	22.8	28.2	16.9	5.6
2/21/2024	31	27.8						
2/22/2024			11.5					
2/23/2024								
8/20/2024				10		30.4		
8/21/2024							19.7	6
8/22/2024	30.4	28.8	11.2					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
6/1/2016	1.3	1.3	1.6						
6/2/2016				4.1	7.2	4.3	1.4	1.9	3.7
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		1.3	1.4					1.7	
7/26/2016	1.2			4	6.6	4.4	1.6		3.6
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	1.1		1.3						
9/14/2016		1.3			6.6	3.8			3.4
9/15/2016				4.2			1.5		
9/16/2016									
9/19/2016								1.6	
9/20/2016									
9/21/2016									
11/1/2016	1.3	1.4					1.7	1.8	
11/2/2016				4.9	7.6				4.5
11/3/2016									
11/4/2016			1.6			4.8			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				4.1					
1/11/2017	1.1	1.1					1.2		
1/12/2017					6.8	3.8			
1/13/2017									4.2
1/16/2017			1.4					1.7	
1/18/2017									
1/19/2017									
2/21/2017								1.7	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		1.1							
3/2/2017	1		1.3				1.2		
3/3/2017									
3/6/2017									3.6
3/7/2017					6.8	4.5			
3/8/2017				4.2					
4/26/2017		1.1		4.1			1.2	1.7	
4/27/2017	1		1.3						
4/28/2017									
5/1/2017					7.2				4.3
5/2/2017						4.6			

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	1.1		1.4		7	4.3			
6/28/2017		1.2					1.3		
6/29/2017									4.2
6/30/2017				3.7				1.8	
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	1.1		1.7		6.5	4.2			
10/4/2017		1.2					1.5	1.8	
10/5/2017				3.8					4.7
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018	1.1								
6/6/2018			1.4		4.7				
6/7/2018						4.5	1.2		4.4
6/8/2018		1.2		3.4					
6/11/2018								2	
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					4.8	5.1			4.8
10/1/2018	1.1	1.2	1.4	3.8			1.5		
10/2/2018								1.8	
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	1.4		1.5						
3/29/2019				4.2					
4/1/2019		1.1					1.2	1.7	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
4/2/2019									
4/3/2019					4	4.2			4.3
6/12/2019									
9/24/2019	1.1		1.3		3.7	4.5			
9/25/2019		1.1		4.8			1.1	1.6	4.5
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					1.2	1.8	
3/20/2020									
3/24/2020					3.5	4.3			
3/25/2020									3.9
9/22/2020					3.6	4.2			4.5
9/23/2020	0.99 (J)	1	1.2				1.1		
9/24/2020								1.5	
9/25/2020				5.3					
3/1/2021								1.6	
3/2/2021				4.9	3.2	4.3			
3/3/2021	0.96 (J)	0.99 (J)	1.2				1.1		4.1
3/4/2021									
8/19/2021	1.1		1.3	5			1.1	1.6	
8/20/2021									
8/26/2021					3.4	4.3			4.4
8/27/2021		1.1							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	1	1.1	1.3				1.1		
2/10/2022				4.7	3.2	4.4			
2/11/2022								2.1	4.1
8/30/2022	1.3				3.5	4.4			
8/31/2022		1.3	1.5	4.6			1.3	1.8	4.4
9/1/2022									
2/7/2023	1.3		1.5		3.3				
2/8/2023		1.1		4.9			1.2	1.6	
2/9/2023						5			4.5
8/2/2023									
8/15/2023	1.1		1.4	4.1	3.1	4.1	1.1		4.4
8/16/2023		1.1						1.5	
8/17/2023									
2/20/2024	1	1.1	1.2		3.2	4.8	1.1	1.4	4.6
2/21/2024									
2/22/2024									
2/23/2024				4.8					
8/20/2024	1	1	1.3	4.5	3.4	4.8	1.1	1.4	5.2
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			1.9	4.5	2.8				
6/8/2016						19	18	14	22
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	1.9	4.5					
7/28/2016					2.6				
8/1/2016						17	16	13	21
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	6.1			4.5					
9/19/2016		7	1.9		2.4				
9/20/2016						18	18	13	22
9/21/2016									
11/1/2016									
11/2/2016			2.6						
11/3/2016	7.4	7.5		5.4	2.9				
11/4/2016									
11/7/2016						17	16	14	24
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5		4.7					
1/12/2017									
1/13/2017			2.3		2.5				
1/16/2017									
1/18/2017						19	17	14	
1/19/2017									22
2/21/2017						18	16		
2/22/2017									21
2/23/2017								14	
2/24/2017									
3/1/2017	6	6.9							
3/2/2017				4.8					
3/3/2017									
3/6/2017			1.9		2.1				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7	2		2.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				4.6					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
5/3/2017							17		
5/5/2017									
5/8/2017						18		14	22
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			2.6	4.5	2.8				
6/30/2017								14	21
7/5/2017									
7/7/2017									
7/10/2017						19	15		
7/11/2017									
7/17/2017									
10/3/2017					2.2				
10/4/2017	6.8		2.6	4.7					
10/5/2017		7							
10/6/2017									21
10/9/2017								14	
10/10/2017						19	15		
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018					1.7				
6/6/2018			2.7						
6/7/2018		6.8							
6/8/2018									
6/11/2018	6.8			4.9					
6/12/2018									19.8
6/13/2018						18.1	14.2	13.1	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	7.8	7.9	3.6	5.6	2.2				
9/26/2018									
10/1/2018									
10/2/2018						18.3	14	13.8	19.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								14.2	19.7

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
4/2/2019				4.8	2.5	17.9	13.5		
4/3/2019	6.3	6.9	3.1						
6/12/2019									
9/24/2019					3.1				
9/25/2019			2.8	5.7		17.1	14.4		
9/26/2019	7.1	7						14.3	19.6
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							15.4		
3/20/2020						17.7		13	17.7
3/24/2020	6.8	7	2.7	5	2.8				
3/25/2020									
9/22/2020									
9/23/2020	7.2	7.2		6.6					
9/24/2020			2.7		2	17.1	15.7	13.3	17
9/25/2020									
3/1/2021									
3/2/2021							13.2		
3/3/2021	7.2	7	2.7	7.1		16.6		13	4
3/4/2021					1.8				
8/19/2021							13.5		
8/20/2021						14.4		13.7	15.2
8/26/2021	7.3								
8/27/2021		7.4	2.8	8.5					
9/1/2021					1.8				
9/3/2021									
2/8/2022									13
2/9/2022	7	7.5	2.8	10.9	1.7				
2/10/2022						15.4	14	13.1	
2/11/2022									
8/30/2022	7	7.9		12	2.4				
8/31/2022			2.9			16.6	15		
9/1/2022								13.4	10.4
2/7/2023	6.4	7.4	2.9	11.4	2.4				
2/8/2023									
2/9/2023						16.6	15.1	13.9	11.5
8/2/2023									
8/15/2023	6.7	7.3	2.8	11.6	2.3				
8/16/2023									
8/17/2023						15.7	14.4	12.9	11.7
2/20/2024		7.6	2.9	12.2	2.3				
2/21/2024								12.5	12.6
2/22/2024						16	14.9		
2/23/2024	6.6								
8/20/2024		7.8	3	12.7	2.3				
8/21/2024	7.4					15.8	15.2	12.2	
8/22/2024									13.9

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	19	18	15					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	18	18	14					
8/30/2016				5.2				
8/31/2016					4			
9/13/2016								
9/14/2016						1.1		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	19	18	14					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						1.4		
11/7/2016	20		14					
11/8/2016		18						
11/14/2016				6.4				
11/28/2016					4.2			
12/15/2016						2.9		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						0.98		
1/18/2017	20	18						
1/19/2017			14					
2/21/2017	19							
2/22/2017		18	13		3.7			
2/23/2017								
2/24/2017				5.5				
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								

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	21	19						
5/8/2017			15	5.8	4.2			
5/26/2017						0.93		
6/27/2017								
6/28/2017						1		
6/29/2017								
6/30/2017								
7/5/2017		18	14					
7/7/2017	20							
7/10/2017								
7/11/2017				5.8				
7/17/2017					3.8			
10/3/2017						1.2		
10/4/2017								
10/5/2017		19	15					
10/6/2017								
10/9/2017	20							
10/10/2017				5.9				
10/11/2017							2.4	
10/12/2017								3.8
10/16/2017					4.2			
11/20/2017							1.8	4.4
1/10/2018								4.6
1/11/2018							1.6	
2/19/2018					4.3			4.6
2/20/2018							2	
4/2/2018				4.8				
4/3/2018							3.3	5.9
6/5/2018								
6/6/2018								
6/7/2018						1		
6/8/2018								
6/11/2018			13.6					
6/12/2018	19.3	17.6						
6/13/2018								
6/28/2018							2.1	5
8/6/2018					3.8			
8/7/2018							1.2	4.3
9/19/2018				4				
9/24/2018							1.3	4.9
9/25/2018								
9/26/2018								
10/1/2018						1.1		
10/2/2018			13.4					
10/3/2018	20.2	17.7						
2/25/2019					4.1			
3/26/2019								4.4
3/27/2019				4.3			1.4	
3/28/2019								
3/29/2019						1.2		
4/1/2019		17.2	13.1					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	19.5							
4/3/2019								
6/12/2019					4.7			
9/24/2019						0.95 (J)		
9/25/2019			11.3					
9/26/2019	19.5	17.3						
10/8/2019				4.4	5.1			
10/9/2019							2.1	5.1
3/17/2020				4.1	4.8			
3/18/2020								
3/19/2020	18.1	16				0.97 (J)		
3/20/2020			11.3					
3/24/2020								4.7
3/25/2020							1.9	
9/22/2020				4.2	4.2			
9/23/2020						0.88 (J)		
9/24/2020	18	15.1	10.9				2.7	5
9/25/2020								
3/1/2021				3.7				
3/2/2021					4.1			
3/3/2021	18	14.6	6.7			0.86 (J)		
3/4/2021							4.9	4.9
8/19/2021				3.5				
8/20/2021	18.1	15.2	6.8		5.2			
8/26/2021							7.2	
8/27/2021						0.99 (J)		
9/1/2021								
9/3/2021								5.5
2/8/2022	18.3	15.2	5.5	3.2	5.7		7.4	6.2
2/9/2022						1 (J)		
2/10/2022								
2/11/2022								
8/30/2022					6.3	1.2		
8/31/2022				3.5			6.7	6.3
9/1/2022	16.5	10.4	8.1					
2/7/2023					6.1	1.1	5.6	
2/8/2023			10.4	3.5				6.9
2/9/2023	18.1	11.5						
8/2/2023			9.5					
8/15/2023				3.5	5.6	0.93 (J)	4.5	5.6
8/16/2023	16.8	10.5						
8/17/2023								
2/20/2024				3.2	6.1	0.96 (J)	4.6	5.7
2/21/2024	17.5	10.4						
2/22/2024			10.5					
2/23/2024								
8/20/2024				3.6		0.91 (J)		
8/21/2024							4	5.4
8/22/2024	18.2	10.9	10.5					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
6/1/2016	0.15 (J)	<0.1	0.12 (J)						
6/2/2016				<0.1	<0.1	0.11 (J)	<0.1	0.62	<0.1
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	0.14 (J)	0.06 (J)							0.06 (J)
7/26/2016			0.08 (J)	0.02 (J)	<0.1	0.05 (J)	<0.1	0.49	
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016		<0.1	0.11 (J)						
9/14/2016	0.18 (J)				<0.1	0.04 (J)	<0.1		
9/15/2016				<0.1				0.54	
9/16/2016									
9/19/2016									<0.1
9/20/2016									
9/21/2016									
11/1/2016	<0.1		<0.1					0.68	<0.1
11/2/2016				<0.1	<0.1	<0.1			
11/3/2016									
11/4/2016		<0.1					<0.1		
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				<0.1					
1/11/2017	0.09 (J)		0.05 (J)					0.49	
1/12/2017						0.04 (J)	<0.1		
1/13/2017					<0.1				
1/16/2017		<0.1							<0.1
1/18/2017									
1/19/2017									
2/21/2017									<0.1
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017	<0.1								
3/2/2017		<0.1	<0.1					0.48	
3/3/2017									
3/6/2017					<0.1				
3/7/2017						<0.1	<0.1		
3/8/2017				<0.1					
4/26/2017	0.08 (J)			<0.1				0.48	<0.1
4/27/2017		0.01 (J)	0.04 (J)						
4/28/2017									
5/1/2017					<0.1	<0.1			
5/2/2017							<0.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		<0.1	<0.1			<0.1	<0.1		
6/28/2017	0.12 (J)							0.47	
6/29/2017					<0.1				
6/30/2017				<0.1					<0.1
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		<0.1	<0.1			<0.1	<0.1		
10/4/2017	<0.1							<0.1	<0.1
10/5/2017				<0.1	<0.1				
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018		<0.1		<0.1					<0.1
3/28/2018	<0.1							0.56	
3/29/2018			<0.1		<0.1	<0.1	<0.1		
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			0.055 (J)						
6/6/2018		<0.1				0.15 (J)			
6/7/2018					<0.1		<0.1	0.48	
6/8/2018	0.2 (J)			<0.1					
6/11/2018									<0.1
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					<0.1	<0.1	<0.1		
10/1/2018	<0.1	<0.1	<0.1	<0.1				0.44	
10/2/2018									<0.1
10/3/2018									
2/25/2019									
2/26/2019				<0.1					<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
2/27/2019	0.13 (J)	<0.1	0.052 (J)					0.53	
3/4/2019					<0.1	0.19 (J)	<0.1		
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.1	0.036 (J)						
3/29/2019				<0.1					
4/1/2019	0.1 (J)							0.45	<0.1
4/2/2019									
4/3/2019					<0.1	0.047 (J)	<0.1		
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019		<0.1	0.063 (J)			0.05 (J)	<0.1		
9/25/2019	0.1 (J)			<0.1	<0.1			0.46	<0.1
9/26/2019									
10/8/2019									
10/9/2019									
2/10/2020		<0.1	0.061 (J)						
2/11/2020	0.094 (J)								
2/12/2020				<0.1	<0.1	<0.1	<0.1	0.4	<0.1
2/13/2020									
3/17/2020									
3/18/2020		<0.1		<0.1					
3/19/2020	0.11 (J)		0.064 (J)					0.51	<0.1
3/20/2020									
3/24/2020						<0.1	<0.1		
3/25/2020					<0.1				
8/26/2020									
8/27/2020									
9/22/2020					<0.1	0.056 (J)	<0.1		
9/23/2020	0.098 (J)	<0.1	0.058 (J)					0.47	
9/24/2020									<0.1
9/25/2020				<0.1					
2/8/2021						0.055 (J)	<0.1		
2/9/2021					<0.1				
2/10/2021	<0.1			<0.1				0.43	
2/11/2021									<0.1
2/12/2021		<0.1	0.068 (J)						
3/1/2021									<0.1
3/2/2021				<0.1		<0.1	<0.1		
3/3/2021	0.1	<0.1	0.078 (J)		<0.1			0.44	
3/4/2021									
8/19/2021		<0.1	0.074 (J)	<0.1				0.47	<0.1
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									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-14S (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)
2/9/2022	0.097 (J)	<0.1	0.057 (J)					0.43	
2/10/2022				<0.1		0.055 (J)	<0.1		
2/11/2022					<0.1				<0.1
8/30/2022			0.093 (J)			0.085 (J)	<0.1		
8/31/2022	0.13	0.065 (J)		0.053 (J)	0.061 (J)			0.42	0.06 (J)
9/1/2022									
2/7/2023		0.071 (J)	0.093 (J)			0.082 (J)			
2/8/2023	0.16			0.059 (J)				0.56	0.064 (J)
2/9/2023					0.067 (J)		<0.1		
8/2/2023									
8/15/2023		<0.1	0.057 (J)	<0.1	<0.1	<0.1	<0.1	0.42	
8/16/2023	0.11								<0.1
8/17/2023									
2/20/2024	0.12	<0.1	0.086 (J)		0.059 (J)	0.076 (J)	<0.1	0.45	0.051 (J)
2/21/2024									
2/22/2024									
2/23/2024				<0.1					
8/20/2024	0.12	<0.1	0.066 (J)	<0.1	<0.1	0.058 (J)	<0.1	0.45	<0.1
8/21/2024									
8/22/2024									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	<0.1	<0.1							
6/7/2016			<0.1	<0.1	<0.1				
6/8/2016						<0.1	0.086 (J)	0.094 (J)	0.12 (J)
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	<0.1	<0.1	<0.1		<0.1				
7/28/2016				0.02 (J)					
8/1/2016						0.24 (J)	0.14 (J)	0.08 (J)	0.22 (J)
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	<0.1		<0.1						
9/19/2016		<0.1		0.02 (J)	<0.1				
9/20/2016						0.03 (J)	<0.1	0.05 (J)	0.32
9/21/2016									
11/1/2016									
11/2/2016					<0.1				
11/3/2016	<0.1	<0.1	<0.1	<0.1					
11/4/2016									
11/7/2016						0.44	<0.1 (*)	<0.1 (*)	<0.1 (*)
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<0.1	<0.1	<0.1						
1/12/2017									
1/13/2017				<0.1	<0.1				
1/16/2017									
1/18/2017						<0.1 (*)	<0.1 (*)	0.11 (J)	
1/19/2017									0.25 (J)
2/21/2017						<0.1 (*)		<0.1 (*)	
2/22/2017									0.21 (J)
2/23/2017							<0.1 (*)		
2/24/2017									
3/1/2017	<0.1	<0.1							
3/2/2017			<0.1						
3/3/2017									
3/6/2017				<0.1	<0.1				
3/7/2017									
3/8/2017									
4/26/2017	<0.1	<0.1		0.04 (J)	<0.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.1						

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
5/3/2017						0.16 (J)			
5/5/2017									
5/8/2017							0.07 (J)	0.08 (J)	0.19 (J)
5/26/2017									
6/27/2017									
6/28/2017	<0.1	<0.1							
6/29/2017			<0.1	<0.1	<0.1				
6/30/2017							<0.1 (*)		0.2 (J)
7/5/2017									
7/7/2017									
7/10/2017						<0.1 (*)		<0.1 (*)	
7/11/2017									
7/17/2017									
10/3/2017				<0.1					
10/4/2017	<0.1		<0.1		<0.1				
10/5/2017		<0.1							
10/6/2017									<0.1 (*)
10/9/2017							<0.1 (*)		
10/10/2017						<0.1		<0.1	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018	<0.1	<0.1	<0.1						
3/29/2018				<0.1	<0.1		<0.1		0.49
3/30/2018						0.35		<0.1	
4/2/2018									
4/3/2018									
6/5/2018				0.13 (J)					
6/6/2018					<0.1				
6/7/2018		<0.1							
6/8/2018									
6/11/2018	<0.1		<0.1						
6/12/2018									0.037 (J)
6/13/2018						0.044 (J)	<0.1	0.088 (J)	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	<0.1	<0.1	<0.1	0 (J)	<0.1				
9/26/2018									
10/1/2018									
10/2/2018						<0.1	<0.1	<0.1	<0.1
10/3/2018									
2/25/2019									
2/26/2019									

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
2/27/2019						<0.1	<0.1	<0.1	0.14 (J)
3/4/2019									
3/5/2019	<0.1		<0.1	0.32	<0.1				
3/6/2019		<0.1							
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019							0.034 (J)		0.088 (J)
4/2/2019			<0.1	0.12 (J)		<0.1		0.071 (J)	
4/3/2019	<0.1	<0.1			<0.1				
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019				0.15 (J)					
9/25/2019			<0.1		<0.1	<0.1		0.064 (J)	
9/26/2019	<0.1	<0.1					0.14 (J)		0.22 (J)
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020	<0.1	<0.1	<0.1						
2/12/2020				0.1 (J)	<0.1				
2/13/2020						<0.1	<0.1	<0.1	0.11 (J)
3/17/2020									
3/18/2020									
3/19/2020						<0.1			
3/20/2020							<0.1	0.06 (J)	0.097 (J)
3/24/2020	<0.1	<0.1	<0.1	0.081 (J)	<0.1				
3/25/2020									
8/26/2020									
8/27/2020									
9/22/2020									
9/23/2020	<0.1	<0.1	<0.1						
9/24/2020				0.079 (J)	<0.1	<0.1	0.059 (J)	0.053 (J)	0.092 (J)
9/25/2020									
2/8/2021									
2/9/2021	<0.1	<0.1		0.092 (J)	<0.1				
2/10/2021						<0.1	0.055 (J)	0.05 (J)	0.084 (J)
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021						<0.1			
3/3/2021	<0.1	<0.1	<0.1		<0.1		0.058 (J)	0.05 (J)	<0.1
3/4/2021				0.091 (J)					
8/19/2021						<0.1			
8/20/2021							0.091 (J)	<0.1	0.11
8/26/2021	<0.1								
8/27/2021		<0.1	<0.1		<0.1				
9/1/2021				0.11					
9/3/2021									
2/8/2022									0.087 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26S	YGWC-27I	YGWC-26I	YGWC-27S
2/9/2022	<0.1	<0.1	<0.1	0.1	<0.1				
2/10/2022						<0.1	0.059 (J)	<0.1	
2/11/2022									
8/30/2022	<0.1	<0.1	<0.1	0.1					
8/31/2022					<0.1	0.076 (J)		0.082 (J)	
9/1/2022							0.1		0.12
2/7/2023	<0.1	<0.1	<0.1	0.1	<0.1				
2/8/2023									
2/9/2023						0.07 (J)	0.1	0.088 (J)	0.12
8/2/2023									
8/15/2023	<0.1	<0.1	<0.1	0.061 (J)	<0.1				
8/16/2023									
8/17/2023						0.06 (J)	0.081 (J)	0.073 (J)	0.098 (J)
2/20/2024		<0.1	<0.1	0.083 (J)	<0.1				
2/21/2024							0.082 (J)		0.11
2/22/2024						<0.1		0.057 (J)	
2/23/2024	<0.1								
8/20/2024		<0.1	<0.1	0.062 (J)	<0.1				
8/21/2024	0.051 (J)					<0.1	0.12	0.098 (J)	
8/22/2024									0.075 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	0.085 (J)	0.098 (J)	0.16 (J)					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	0.09 (J)	0.38	0.5					
8/30/2016				0.09 (J)				
8/31/2016					0.14 (J)			
9/13/2016								
9/14/2016						0.08 (J)		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	0.09 (J)	0.08 (J)	0.25 (J)					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						<0.1		
11/7/2016	<0.1 (*)		0.27 (J)					
11/8/2016		0.24 (J)						
11/14/2016				0.18 (J)				
11/28/2016					0.12 (J)			
12/15/2016						0.06 (J)		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						0.1 (J)		
1/18/2017		0.12 (J)	0.34					
1/19/2017	<0.1 (*)							
2/21/2017			0.27 (J)					
2/22/2017	<0.1 (*)	<0.1 (*)			0.09 (J)			
2/23/2017								
2/24/2017				0.05 (J)				
3/1/2017								
3/2/2017								
3/3/2017						<0.1		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						0.06 (J)		
5/1/2017								
5/2/2017								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017		0.08 (J)	0.2 (J)					
5/8/2017	0.06 (J)			0.03 (J)	0.05 (J)			
5/26/2017						0.09 (J)		
6/27/2017								
6/28/2017						0.11 (J)		
6/29/2017								
6/30/2017								
7/5/2017	0.08 (J)	0.11 (J)						
7/7/2017			0.18 (J)					
7/10/2017								
7/11/2017				0.07 (J)				
7/17/2017					0.14 (J)			
10/3/2017						<0.1		
10/4/2017								
10/5/2017	<0.1 (*)	<0.1 (*)						
10/6/2017								
10/9/2017			<0.1 (*)					
10/10/2017				<0.1				
10/11/2017							<0.1	
10/12/2017								<0.1
10/16/2017					0.12 (J)			
11/20/2017							<0.1	<0.1
1/10/2018								<0.1
1/11/2018							<0.1	
2/19/2018					0.17			<0.1
2/20/2018							0.23	
3/27/2018								
3/28/2018						0.31		
3/29/2018	<0.1							
3/30/2018		<0.1	<0.1					
4/2/2018				<0.1				
4/3/2018							<0.1	<0.1
6/5/2018								
6/6/2018								
6/7/2018						0.11 (J)		
6/8/2018								
6/11/2018	<0.1							
6/12/2018		<0.1	0.13 (J)					
6/13/2018								
6/28/2018							<0.1	<0.1
8/6/2018					0.087 (J)			
8/7/2018							0.048 (J)	<0.1
9/19/2018				<0.1				
9/24/2018							<0.1	<0.1
9/25/2018								
9/26/2018								
10/1/2018						<0.1		
10/2/2018	<0.1							
10/3/2018		<0.1	0.31					
2/25/2019					0.14 (J)			
2/26/2019								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/27/2019	0.15 (J)	0.14 (J)	0.22 (J)			0.12 (J)		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								<0.1
3/27/2019				0.081 (J)			<0.1	
3/28/2019								
3/29/2019						0.13 (J)		
4/1/2019	0.059 (J)	0.078 (J)						
4/2/2019			0.14 (J)					
4/3/2019								
6/12/2019					0.12 (J)			
8/19/2019					<0.1			
8/20/2019				<0.1				
8/21/2019							<0.1	<0.1
9/24/2019						0.081 (J)		
9/25/2019	0.054 (J)							
9/26/2019		0.29 (J)	0.28 (J)					
10/8/2019				0.034 (J)	0.052 (J)			
10/9/2019							<0.1	<0.1
2/10/2020								
2/11/2020						0.075 (J)		
2/12/2020							<0.1	<0.1
2/13/2020	0.053 (J)	0.14 (J)	0.18 (J)					
3/17/2020				<0.1	0.053 (J)			
3/18/2020								
3/19/2020		0.07 (J)	0.16 (J)			0.093 (J)		
3/20/2020	0.057 (J)							
3/24/2020								<0.1
3/25/2020							<0.1	
8/26/2020					0.068 (J)			
8/27/2020				<0.1				
9/22/2020				<0.1	0.058 (J)			
9/23/2020						0.08 (J)		
9/24/2020	0.06 (J)	0.073 (J)	0.16				<0.1	<0.1
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021						0.094 (J)	<0.1	<0.1
2/11/2021		0.066 (J)						
2/12/2021	0.17		0.069 (J)					
3/1/2021				<0.1				
3/2/2021					0.073 (J)			
3/3/2021	0.056 (J)	0.072 (J)	0.13			0.085 (J)		
3/4/2021							<0.1	<0.1
8/19/2021				<0.1				
8/20/2021	0.069 (J)	0.11	0.2		0.06 (J)			
8/26/2021							0.063 (J)	
8/27/2021						0.12		
9/1/2021								
9/3/2021								<0.1
2/8/2022	0.053 (J)	0.063 (J)	0.14	<0.1	0.064 (J)		0.052 (J)	<0.1

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28I	YGWC-28S	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/9/2022						0.094 (J)		
2/10/2022								
2/11/2022								
8/30/2022					0.086 (J)	0.12		
8/31/2022				0.065 (J)			0.065 (J)	0.05 (J)
9/1/2022	0.091 (J)	0.11	0.16					
2/7/2023					0.095 (J)	0.12	0.076 (J)	
2/8/2023	0.092 (J)			0.077 (J)				<0.1
2/9/2023		0.14	0.18					
8/2/2023	0.054 (J)							
8/15/2023				<0.1	0.065 (J)	0.081 (J)	<0.1	<0.1
8/16/2023		0.078 (J)	0.18					
8/17/2023								
2/20/2024				0.073 (J)	0.094 (J)	0.1	0.063 (J)	<0.1
2/21/2024		0.096 (J)	0.15					
2/22/2024	0.075 (J)							
2/23/2024								
8/20/2024				<0.1		0.085 (J)		
8/21/2024							0.083 (J)	0.06 (J)
8/22/2024	0.071 (J)	0.08 (J)	0.14					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)
8/27/2008	6.53								
3/3/2009	6.35								
11/18/2009	6.47								
3/3/2010	6.53								
3/10/2011	5.83								
9/8/2011	5.69								
3/5/2012	6.27								
9/10/2012	6.23								
2/6/2013	7.56								
8/12/2013	6.68								
2/5/2014	6.32								
8/3/2015	6.13 (D)								
2/16/2016	5.64								
6/1/2016		7.72	7.46	6.33					
6/2/2016					5.46	7.67	5.75	7.84	6.36
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		7.74		6.21			5.82		
7/26/2016			7.43		5.45	7.66		7.88	6.22
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
9/13/2016			7.44	6.16					
9/14/2016		7.65				7.6			6.23
9/15/2016					5.45			7.74	
9/16/2016									
9/19/2016							5.78 (D)		
9/20/2016									
9/21/2016									
11/1/2016		7.7	7.24				5.62	7.75	
11/2/2016					5.41	7.35			6.08
11/3/2016									
11/4/2016				6.29					
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016	6.23								
12/15/2016									
1/10/2017					5.37				
1/11/2017		7.53	7.3					7.66	
1/12/2017						7.49			
1/13/2017									6.19
1/16/2017				6.29			5.72		
1/18/2017									
1/19/2017									
2/21/2017							5.67		
2/22/2017	6.21								
2/23/2017									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)
2/24/2017									
3/1/2017		7.42							
3/2/2017			7.23	6.28				7.68	
3/3/2017									
3/6/2017									6.2
3/7/2017						7.43			
3/8/2017					5.41				
4/26/2017		7.4			5.02		5.56	7.45	
4/27/2017			6.99	6.09					
4/28/2017									
5/1/2017						7.22			6.21
5/2/2017									
5/3/2017									
5/5/2017									
5/8/2017	6.12								
5/26/2017									
6/27/2017			6.87	6.21		7.32			
6/28/2017		7.5						7.65	
6/29/2017									6.21
6/30/2017					5.39		5.72		
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017	6.03								
10/3/2017			6.81	5.98		7.48			
10/4/2017		7.45					5.87	7.49	
10/5/2017					5.49				6.16
10/6/2017									
10/9/2017									
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		5.83		
3/28/2018		7.74						7.91	
3/29/2018			7.38			7.02			6.09
3/30/2018									
4/2/2018									
4/3/2018									
6/5/2018			7.16						
6/6/2018				6.17		7.43			
6/7/2018								7.69	6.12
6/8/2018		7.64			5.45				
6/11/2018							5.69		
6/12/2018									
6/13/2018									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)
6/28/2018									
8/6/2018	6.01								
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018						7.13			5.84
10/1/2018		7.47	6.8	5.9	5.39			7.39	
10/2/2018							5.39		
10/3/2018									
2/25/2019	6.51								
2/26/2019					5.46		5.77		
2/27/2019		7.54	6.84	5.8				7.55	
3/4/2019						7.46			6.18
3/5/2019									
3/6/2019									
3/26/2019									
3/27/2019									
3/28/2019			6.99	6.15					
3/29/2019					5.34				
4/1/2019		7.74					5.62	7.87	
4/2/2019									
4/3/2019						7.11			6.43
6/12/2019	6.3								
8/19/2019	6.23								
8/20/2019									
8/21/2019									
9/24/2019			7.07	6.23		6.93			
9/25/2019		7.47			5.19		5.69	7.64	6.2
9/26/2019									
10/8/2019	6.28								
10/9/2019									
2/10/2020			7.2	6.1					
2/11/2020		7.09							
2/12/2020					5.48	7.52	5.8	7.83	6.15
2/13/2020									
3/17/2020	6.14								
3/18/2020				6.19	5.38				
3/19/2020		7.31	7.03				6	7.65	
3/20/2020									
3/24/2020						7.34			
3/25/2020									6.26
5/6/2020	6.24								
8/26/2020	5.67								
8/27/2020									
9/22/2020	5.78					7.19			5.8
9/23/2020		7.37	7.15	6.01				7.57	
9/24/2020							5.67		
9/25/2020					5.44				
2/8/2021									
2/9/2021									6.06
2/10/2021		7.58			5.35			7.81	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	GWA-2 (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-4I (bg)
2/11/2021							5.73		
2/12/2021			7.14	6.21					
3/1/2021							5.78		
3/2/2021	5.42				5.49	7.15			
3/3/2021		8.23	7.2	5.38				8.39	6.21
3/4/2021									
8/19/2021			6.32	6.38	7.32			5.34	
8/20/2021	5.86								
8/26/2021						7.16			5.82
8/27/2021		7.39							
9/1/2021									
9/3/2021									
2/8/2022	5.83								
2/9/2022		7.66	7.12	6.24				7.97	
2/10/2022					4.5	6.99			
2/11/2022							5.59		5.95
8/30/2022	5.39		7.2			7.4			
8/31/2022		7.49		5.64	5.15		5.87	7.65	5.5
9/1/2022									
2/7/2023	5.94		7.86	6.53		6.64			
2/8/2023		7.73			5.39		6.43	7.88	
2/9/2023									6.23
8/2/2023									
8/15/2023	5.3		6.98	5.88	5.03	7.34		7.69	5.99
8/16/2023		7.39					5.55		
8/17/2023									
2/20/2024	6.07	7.59	7.06	6.42		7.56	5.81	7.81	6.21
2/21/2024									
2/22/2024									
2/23/2024					5.39				
8/20/2024		7.45	7.18	5.77	5.49	7.3	6.07	7.59	6.03
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27I
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	5.75								
6/6/2016		5.71	6.17						
6/7/2016				6.1	5.62	5.77			
6/8/2016							5.85	5.24	6.32
6/9/2016									
7/25/2016									
7/26/2016	5.72								
7/27/2016		5.46	6.14		5.59	5.79			
7/28/2016				6.12					
8/1/2016							5.83	5.17	6.34
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016	5.74								
9/15/2016									
9/16/2016					5.58				
9/19/2016		5.59	6.04	6.12		5.73			
9/20/2016							5.89	5.35	6.36
9/21/2016									
11/1/2016									
11/2/2016						5.67			
11/3/2016		5.39	5.97	6.07	5.59				
11/4/2016	5.61								
11/7/2016							5.91	5.35	6.3
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05		5.59				
1/12/2017	5.71								
1/13/2017				6.41		5.79			
1/16/2017									
1/18/2017							5.84	5.2	6.31
1/19/2017									
2/21/2017							5.79	5.14	
2/22/2017									
2/23/2017									6.18

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27I
2/24/2017									
3/1/2017		5.41	5.94						
3/2/2017					5.54				
3/3/2017									
3/6/2017				6.34		5.63			
3/7/2017	5.66								
3/8/2017									
4/26/2017		5.4	5.99	6.32		5.66			
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017	5.65				5.47				
5/3/2017								5.28	
5/5/2017									
5/8/2017							5.84		6.24
5/26/2017									
6/27/2017	5.7								
6/28/2017		5.36	6						
6/29/2017				6.47	5.56	5.85			
6/30/2017									6.21
7/5/2017									
7/7/2017									
7/10/2017							5.92	5.25	
7/11/2017									
7/17/2017									
10/3/2017	5.79			6.56					
10/4/2017		5.32			5.57	5.83			
10/5/2017			6.11						
10/6/2017									
10/9/2017									6.26
10/10/2017							5.84	5.17	
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
3/27/2018									
3/28/2018		5.34	6.1		5.59				
3/29/2018	5.63			6.75		5.93			6.36
3/30/2018							6.19	5.19	
4/2/2018									
4/3/2018									
6/5/2018				6.09					
6/6/2018						5.86			
6/7/2018	5.63		5.98						
6/8/2018									
6/11/2018		5.28			5.58				
6/12/2018									
6/13/2018							5.82	5.12	6.28

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27I
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018		4.86	5.81	6.67	5.59	5.84			
9/26/2018	5.63								
10/1/2018									
10/2/2018							5.81	4.95	5.9
10/3/2018									
2/25/2019									
2/26/2019									
2/27/2019							5.79	5	6.31
3/4/2019	5.75								
3/5/2019		5.26		7.22	5.48	6.07			
3/6/2019			5.99						
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019									6.43
4/2/2019				6.94	5.74		5.87	5.13	
4/3/2019	5.63	5.47	6.29			5.71			
6/12/2019									
8/19/2019									
8/20/2019									
8/21/2019									
9/24/2019	5.6			6.87					
9/25/2019					5.49	5.86	5.79	5.24	
9/26/2019		5.2	6.04						6.3
10/8/2019									
10/9/2019									
2/10/2020									
2/11/2020		5.3	6.07		5.58				
2/12/2020	5.83			7.13		6			
2/13/2020							5.93	5.29	6.4
3/17/2020									
3/18/2020									
3/19/2020								5.46	
3/20/2020							5.94		6.32
3/24/2020	5.81	5.33	5.98	6.35	5.57	5.86			
3/25/2020									
5/6/2020									
8/26/2020									
8/27/2020									
9/22/2020	5.99								
9/23/2020		5.29	6.01		5.58				
9/24/2020				6.7		5.8	5.86	5.46	6.36
9/25/2020									
2/8/2021	5.67								
2/9/2021		5.43	6.12	6.95		5.86			
2/10/2021							5.96	5.18	6.29

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5I (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27I
2/11/2021									
2/12/2021									
3/1/2021									
3/2/2021	5.63							5.38	
3/3/2021		5.31	5.89		5.52	5.89	5.93		6.43
3/4/2021				6.8					
8/19/2021								5.12	
8/20/2021							5.78		6.17
8/26/2021	5.51	4.4							
8/27/2021			5.4		5.27	5.57			
9/1/2021				6.65					
9/3/2021									
2/8/2022									
2/9/2022		5.28	5.98	6.84	5.53	5.91			
2/10/2022	5.14						5.84	5.31	6.23
2/11/2022									
8/30/2022	5	5.18	5.82	6.58	4.68				
8/31/2022						5.38	5.77	5.61	
9/1/2022									6.13
2/7/2023		5.03	6	6.82	5.47	5.63			
2/8/2023									
2/9/2023	5.9						5.76	5.64	6.48
8/2/2023									
8/15/2023	5.58	5.2	5.82	6.84	5.54	7			
8/16/2023									
8/17/2023							5.77	5.38	6.2
2/20/2024	5.78		6.11	6.78	5.64	5.99			
2/21/2024									6.43
2/22/2024							5.92	5.58	
2/23/2024		5.3							
8/20/2024	5.58		5.74	6.6	5.45	6			
8/21/2024		5.29					6.31	6.17	7.28
8/22/2024									

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
8/27/2008								
3/3/2009								
11/18/2009								
3/3/2010								
3/10/2011								
9/8/2011								
3/5/2012								
9/10/2012								
2/6/2013								
8/12/2013								
2/5/2014								
8/3/2015								
2/16/2016								
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016	6.24							
6/9/2016		6.42	6.19	6.39				
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016	6.12							
8/2/2016		6.43	6.17	6.35				
8/30/2016					5.75			
9/13/2016						7.41		
9/14/2016								
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016	6.3							
9/21/2016		6.45	6.2	6.39				
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						7.12		
11/7/2016	6.25		6.1	6.36				
11/8/2016		6.37						
11/14/2016					5.59			
11/28/2016								
12/15/2016						7.24		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						7.24		
1/18/2017		6.27		6.23				
1/19/2017	6.2		6.22					
2/21/2017				6.42				
2/22/2017	6.14	6.35	6.12					
2/23/2017								

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/24/2017					5.49			
3/1/2017								
3/2/2017								
3/3/2017						7.22		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						7.21		
5/1/2017								
5/2/2017								
5/3/2017								
5/5/2017		6.36		6.4				
5/8/2017	6.11		6.11		5.58			
5/26/2017						7.13		
6/27/2017								
6/28/2017						7.06		
6/29/2017								
6/30/2017	6.17							
7/5/2017		6.4	6.17					
7/7/2017				6.46				
7/10/2017								
7/11/2017					5.58			
7/17/2017								
10/3/2017						6.99		
10/4/2017								
10/5/2017		6.43	6.17					
10/6/2017	6.13							
10/9/2017				6.37				
10/10/2017					5.49			
10/11/2017							6.4	
10/12/2017								5.43
10/16/2017								
11/20/2017							6.33	5.1
1/10/2018								4.97
1/11/2018							6.29	
2/19/2018								5.6
2/20/2018							7.22	
3/27/2018								
3/28/2018						7.3		
3/29/2018	6.25		6.09					
3/30/2018		6.39		6.35				
4/2/2018					6.3			
4/3/2018							6.87	5.84
6/5/2018								
6/6/2018								
6/7/2018						7.29		
6/8/2018								
6/11/2018			6.17					
6/12/2018	6.22	6.42		6.47				
6/13/2018								

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/28/2018							6.18	5.24
8/6/2018								
8/7/2018							6.08	5.18
9/19/2018					5.48			
9/24/2018							5.81	5.14
9/25/2018								
9/26/2018								
10/1/2018						7.07		
10/2/2018	5.99		6.17					
10/3/2018		6.21		6.01				
2/25/2019								
2/26/2019								
2/27/2019	6.26	6.32	6.19	6.38		7.27		
3/4/2019								
3/5/2019								
3/6/2019								
3/26/2019								5.3
3/27/2019					5.83		5.84	
3/28/2019								
3/29/2019						7.06		
4/1/2019	6.4	6.3	6.03					
4/2/2019				6.7				
4/3/2019								
6/12/2019								
8/19/2019								
8/20/2019					5.58			
8/21/2019							5.96	5.26
9/24/2019						7.01		
9/25/2019			6.21					
9/26/2019	6.22	6.43		6.47				
10/8/2019					5.59			
10/9/2019							5.81	5.22
2/10/2020								
2/11/2020						7.38		
2/12/2020							5.97	5.3
2/13/2020	6.31	6.49	6.32	6.53				
3/17/2020					5.57			
3/18/2020								
3/19/2020		7.01		6.98		7.22		
3/20/2020	6.18		6.17					
3/24/2020								5.29
3/25/2020							5.78	
5/6/2020								
8/26/2020								
8/27/2020					4.88			
9/22/2020					5.46			
9/23/2020						7.22		
9/24/2020	6.27	6.41	6.2	6.53			5.7	5.43
9/25/2020								
2/8/2021								
2/9/2021								
2/10/2021	6.21					7.29	5.8	5.19

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-28I	YGWC-29IB	YGWC-28S	YGWA-47 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
2/11/2021		6.57						
2/12/2021			6.24	6.6				
3/1/2021					5.48			
3/2/2021								
3/3/2021	6.35	6.51	6.27	6.61		7.92		
3/4/2021							5.54	5.23
8/19/2021					5.5			
8/20/2021	6.18	6.23	6.07	6.38				
8/26/2021							6.91	
8/27/2021						7.14		
9/1/2021								
9/3/2021								4.75
2/8/2022	6.22	6.34	5.88	6.3	5.4		5.78	5.26
2/9/2022						5.89		
2/10/2022								
2/11/2022								
8/30/2022						7.04		
8/31/2022					5.32		5.3	4.53
9/1/2022	6.13	6.41	6.05	6.59				
2/7/2023						6.94	5.49	
2/8/2023			6.67		5.22			5.71
2/9/2023	6.64	6.7		6.87				
8/2/2023			6.04					
8/15/2023					5.69	6.96	5.78	5
8/16/2023		6.3		6.36				
8/17/2023	6.06							
2/20/2024					5.62	7.23	5.97	5.32
2/21/2024	6.26	6.43		6.49				
2/22/2024			6.01					
2/23/2024								
8/20/2024					5.48	6.91		
8/21/2024							6	5.38
8/22/2024	6.27	6.19	5.86	6.23				

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
6/1/2016	4.2	5	12						
6/2/2016				8	1.3	5.8	20	6.6	1.9
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016	3.7		8.4		1.2				
7/26/2016		5.4		7.7		6.7	20	6.1	1.8
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	5.2	2.9							
9/14/2016			8.6	7.5			19		1.8
9/15/2016						6		6.1	
9/16/2016									
9/19/2016					1.2				
9/20/2016									
9/21/2016									
11/1/2016		3.9	8.9		1.3	4.9			
11/2/2016				8.2			20	6.3	
11/3/2016									
11/4/2016	5								2
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017								5.9	
1/11/2017		3.7	8.6			4.5			
1/12/2017							19		1.9
1/13/2017				8.1					
1/16/2017	7.9				<1				
1/18/2017									
1/19/2017									
2/21/2017					1.4				
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017			9.3						
3/2/2017	7.4	4.6				4.4			
3/3/2017									
3/6/2017				8					
3/7/2017							20		2.1
3/8/2017								7	
4/26/2017			11		1.4	5.1		7	
4/27/2017	7.4	5.2							
4/28/2017									
5/1/2017				8.4			20		
5/2/2017									2

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	6.4	5.9					18		2.1
6/28/2017			12			5.4			
6/29/2017				9.2					
6/30/2017					<1			6.5	
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	5.9	6.6					16		2.3
10/4/2017			12		1.4	6.2			
10/5/2017				9.6				7.9	
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018		6.4							
6/6/2018	4.4						8.3		
6/7/2018				8.5		6.7			2
6/8/2018			9.6					6.4	
6/11/2018					1.1				
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018				10.2			7.9		2.3
10/1/2018	4	5.6	9.1			7.1		6.8	
10/2/2018					1				
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	4.3	8							
3/29/2019								7.3	
4/1/2019			8.5		0.96 (J)	7.2			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-4I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-5D (bg)	YGWA-14S (bg)	YGWA-5I (bg)
4/2/2019									
4/3/2019				8.5			7		2.1
6/12/2019									
9/24/2019	4.3	5.3					5.5		2.4
9/25/2019			13.8	8.5	0.81 (J)	7		6.6	
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020	5.3							8.1	
3/19/2020		10	12.9		1.6	9			
3/20/2020									
3/24/2020							5.9		2.1
3/25/2020				8.8					
9/22/2020				8.2			5.5		2.1
9/23/2020	3.4	8.1	16.8			6.9			
9/24/2020					0.69 (J)				
9/25/2020								6.1	
3/1/2021					0.88 (J)				
3/2/2021							2.6	6	2.3
3/3/2021	4.4	9	9.6	7.8		7			
3/4/2021									
8/19/2021	4.9	8.9			1	7.5		6.7	
8/20/2021									
8/26/2021				8.5			6		2.4
8/27/2021			18.2						
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	5.1	9.3	16			7.2			
2/10/2022							4.9	6.2	2.4
2/11/2022				7.7	2.8				
8/30/2022		10.2					5.7		2.4
8/31/2022	4.8		13.9	8	1.1	6.9		5.8	
9/1/2022									
2/7/2023	6.6	10.6					5.2		
2/8/2023			14.7		0.96 (J)	7.5		6.1	
2/9/2023				8.9					2.9
8/2/2023									
8/15/2023	4.6	9.6		7.5		6.8	4.8	6	2.2
8/16/2023			20.3		0.9 (J)				
8/17/2023									
2/20/2024	4.3	9.7	13.8	8.5	0.69 (J)	7	5.1		2.5
2/21/2024									
2/22/2024									
2/23/2024								7.1	
8/20/2024	4.9	12.2	13.7	8.7	0.74 (J)	7.7	4.3	7.6	2.6
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-27I	YGWC-26S	YGWC-26I
6/1/2016									
6/2/2016									
6/6/2016	1.2	1.8							
6/7/2016			5.2	4.4	<1				
6/8/2016						26	3.2	110	81
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.7	1.9		4.7	0.08 (J)				
7/28/2016			5.1						
8/1/2016						27	3.6	96	75
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016		1.7		4.8					
9/19/2016	1.8		4.8		0.08 (J)				
9/20/2016						21	5.6	100	78
9/21/2016									
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	0.69 (J)	1.9	5	5.3					
11/4/2016									
11/7/2016						24	5.4	100	81
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	<1	1.7		5.2					
1/12/2017									
1/13/2017			4.3		<1				
1/16/2017									
1/18/2017							3.5	100	95
1/19/2017						25			
2/21/2017								96	80
2/22/2017						24			
2/23/2017							4.9		
2/24/2017									
3/1/2017	1.8	<1							
3/2/2017				5					
3/3/2017									
3/6/2017			4.5		<1				
3/7/2017									
3/8/2017									
4/26/2017	1.6	1.9	4.9		<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				5					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-27I	YGWC-26S	YGWC-26I
5/3/2017								100	
5/5/2017									
5/8/2017						23	3.9		84
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.5	5.2	<1				
6/30/2017						23	5		
7/5/2017									
7/7/2017									
7/10/2017								100	84
7/11/2017									
7/17/2017									
10/3/2017			5.8						
10/4/2017		1.7		5.3	<1				
10/5/2017	1.6								
10/6/2017						23			
10/9/2017							5.1		
10/10/2017								97	82
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018			6.1						
6/6/2018					0.049 (J)				
6/7/2018	0.68 (J)								
6/8/2018									
6/11/2018		0.95 (J)		5.2					
6/12/2018						18.1			
6/13/2018							6.1	93.3	76.5
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1	1.5	7	6.1	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018						20.2	6.1	99	83.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019						18.3	4.1		

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-21I (bg)	YGWA-17S (bg)	YGWA-20S (bg)	YGWC-27S	YGWC-27I	YGWC-26S	YGWC-26I
4/2/2019			3.8	5.1				94.5	77.6
4/3/2019	0.82 (J)	1.3			0.12 (J)				
6/12/2019									
9/24/2019			1						
9/25/2019				5.5	<1			97	80.1
9/26/2019	0.64 (J)	1				18.2	4.2		
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020								99.4	
3/20/2020						21.1	5.2		84.7
3/24/2020	<1	0.99 (J)	3	5.4	<1				
3/25/2020									
9/22/2020									
9/23/2020	0.53 (J)	1.1		5.1					
9/24/2020			3.6		<1	16.6	3	92.3	85.6
9/25/2020									
3/1/2021									
3/2/2021								92.7	
3/3/2021	<1	1		5.2	<1	451 (o)	2.6		89.3
3/4/2021			4.5						
8/19/2021								86.5	
8/20/2021						18	2.9		84
8/26/2021		1.2							
8/27/2021	0.59 (J)			5.3	<1				
9/1/2021			5						
9/3/2021									
2/8/2022						16.3			
2/9/2022	0.51 (J)	1.1	3.9	4.8	<1				
2/10/2022							2.4	86.5	81.8
2/11/2022									
8/30/2022	0.78 (J)	1.3	3.2	4.7					
8/31/2022					<1			90.2	85.9
9/1/2022						13.5	2.5		
2/7/2023	0.78 (J)	1.2	3.8	4.9	<1				
2/8/2023									
2/9/2023						13.7	3.2	89.7	84.2
8/2/2023									
8/15/2023	0.51 (J)	0.88 (J)	4.1	4.6	<1				
8/16/2023									
8/17/2023						14.2	3.3	85.7	81.1
2/20/2024	<1		3.8	4.6	<1				
2/21/2024						13	3.8		
2/22/2024								89.3	80.7
2/23/2024		0.79 (J)							
8/20/2024	0.74 (J)		4	4.6	<1				
8/21/2024		1.1					4.2	90.9	83.5
8/22/2024						15.7			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28S	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	33	5.2	8.7					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	32	4.5	7.5					
8/30/2016				160				
8/31/2016					29			
9/13/2016								
9/14/2016						9.4		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	32	<1 (*)	8					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						13		
11/7/2016	33	4.3						
11/8/2016			8.3					
11/14/2016				150				
11/28/2016					36			
12/15/2016						1.8		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						11		
1/18/2017		2.7	8					
1/19/2017	32							
2/21/2017		3						
2/22/2017	31		8.2		43			
2/23/2017								
2/24/2017				120				
3/1/2017								
3/2/2017								
3/3/2017						8.8		
3/6/2017								
3/7/2017								
3/8/2017								
4/26/2017								
4/27/2017								
4/28/2017						10		
5/1/2017								
5/2/2017								

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28S	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017		<1 (*)	<1 (*)					
5/8/2017	32			120	60			
5/26/2017						12		
6/27/2017								
6/28/2017						11		
6/29/2017								
6/30/2017								
7/5/2017	31		8.1					
7/7/2017		2.7						
7/10/2017								
7/11/2017				110				
7/17/2017					63			
10/3/2017						7.9		
10/4/2017								
10/5/2017	31		8.6					
10/6/2017								
10/9/2017		2.9						
10/10/2017				93				
10/11/2017							20	
10/12/2017								17
10/16/2017					62			
11/20/2017							24	71
1/10/2018								66
1/11/2018							23	
2/19/2018					64.6			57.2
2/20/2018							20.6	
4/2/2018				88.8				
4/3/2018							24.5	49.4
6/5/2018								
6/6/2018								
6/7/2018						8.8		
6/8/2018								
6/11/2018	30.6							
6/12/2018		2.9	8.2					
6/13/2018								
6/28/2018							22	43.8
8/6/2018					42.1			
8/7/2018							20.7	40.5
9/19/2018				75				
9/24/2018							21.2	39.7
9/25/2018								
9/26/2018								
10/1/2018						9.1		
10/2/2018	30.8							
10/3/2018		2.1	8					
2/25/2019					42.1			
3/26/2019								34.3
3/27/2019				65.9			17.7	
3/28/2019								
3/29/2019						9		
4/1/2019	30.4		8.2					

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29IB	YGWC-28S	YGWC-28I	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019		2.4						
4/3/2019								
6/12/2019					83.4			
9/24/2019						9.1		
9/25/2019	30							
9/26/2019		1.6	7.9					
10/8/2019				52.3	128			
10/9/2019							15	27.9
3/17/2020				71.6	98.6			
3/18/2020								
3/19/2020		1.7	9.1			12.4		
3/20/2020	33							
3/24/2020								25.2
3/25/2020							14.3	
9/22/2020				51.5	145			
9/23/2020						11.8		
9/24/2020	26.2	0.99 (J)	7.2				11.7	22.9
9/25/2020								
3/1/2021				51.6				
3/2/2021					156			
3/3/2021	26.6	4.9	8.6			10.6		
3/4/2021							12	21.5
8/19/2021				52.6				
8/20/2021	24.7	5.4	8.9		121			
8/26/2021							19.2	
8/27/2021						16.7		
9/1/2021								
9/3/2021								21.3
2/8/2022	22.9	10.5	8.1	50.9	107		14.6	17.9
2/9/2022						18		
2/10/2022								
2/11/2022								
8/30/2022					101	20.1		
8/31/2022				48			10.9	17.9
9/1/2022	21.2	13.4	7.6					
2/7/2023					82.4	17.8	9.7	
2/8/2023	23.7			50.5				17.5
2/9/2023		16	7.4					
8/2/2023	22.9							
8/15/2023				47.7	74.2	17.2	7.6	16.4
8/16/2023		16.2	7.8					
8/17/2023								
2/20/2024				51	75	23.1	8.6	17.2
2/21/2024		3.9	8.5					
2/22/2024	26.9							
2/23/2024								
8/20/2024				53.9		21.3		
8/21/2024							6.6	18.2
8/22/2024	39.7	5.5	9					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
6/1/2016	120	150	54						
6/2/2016				46	160	66	130	36	96
6/6/2016									
6/7/2016									
6/8/2016									
6/9/2016									
7/25/2016		135	48					50	
7/26/2016	94			54	177	78	141		92
7/27/2016									
7/28/2016									
8/1/2016									
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016	105		67						
9/14/2016		127			187	73			102
9/15/2016				54			153		
9/16/2016									
9/19/2016								35	
9/20/2016									
9/21/2016									
11/1/2016	44	75					92	<25	
11/2/2016				71	181				115
11/3/2016									
11/4/2016			60			75			
11/7/2016									
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017				45					
1/11/2017	107	148					159		
1/12/2017					202	86			
1/13/2017									67
1/16/2017			65					47	
1/18/2017									
1/19/2017									
2/21/2017								<25	
2/22/2017									
2/23/2017									
2/24/2017									
3/1/2017		182							
3/2/2017	98		61				117		
3/3/2017									
3/6/2017									159
3/7/2017					257	108			
3/8/2017				178					
4/26/2017		92		52			181	55	
4/27/2017	116		31						
4/28/2017									
5/1/2017					165				107
5/2/2017						103			

ND substitution: RL or RL/2 if <15% NDs.

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017	89		42		189	73			
6/28/2017		126					169		
6/29/2017									79
6/30/2017				45				42	
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017	119		58		170	89			
10/4/2017		147					141	31	
10/5/2017				40					95
10/6/2017									
10/9/2017									
10/10/2017									
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018	127								
6/6/2018			96		151				
6/7/2018						142	95		90
6/8/2018		158		114					
6/11/2018								59	
6/12/2018									
6/13/2018									
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018									
9/26/2018					144	86			116
10/1/2018	117	138	60	50			165		
10/2/2018								57	
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019	87		87						
3/29/2019				63					
4/1/2019		19 (J)					149	54	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1D (bg)	YGWA-3I (bg)	YGWA-1I (bg)	YGWA-14S (bg)	YGWA-5D (bg)	YGWA-5I (bg)	YGWA-3D (bg)	YGWA-30I (bg)	YGWA-4I (bg)
4/2/2019									
4/3/2019					142	83			111
6/12/2019									
9/24/2019	124		54		129	79			
9/25/2019		159		64			157	51	117
9/26/2019									
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020			35	57					
3/19/2020	116	148					146	47	
3/20/2020									
3/24/2020					139	68			
3/25/2020									146
9/22/2020					104	75			83
9/23/2020	108	155	15				157		
9/24/2020								51	
9/25/2020				54					
3/1/2021								23	
3/2/2021				67	52	67			
3/3/2021	99	111	39				137		80
3/4/2021									
8/19/2021	105		44	54			144	50	
8/20/2021									
8/26/2021					123	86			93
8/27/2021		155							
9/1/2021									
9/3/2021									
2/8/2022									
2/9/2022	105	145	57				154		
2/10/2022				56	127	77			
2/11/2022								66	102
8/30/2022	116				148	86			
8/31/2022		137	46	51			141	33	92
9/1/2022									
2/7/2023	131		121		180				
2/8/2023		145		56			144	43	
2/9/2023						59			124
8/2/2023									
8/15/2023	121		65	69	219	76	231		99
8/16/2023		148						48	
8/17/2023									
2/20/2024	130 (D6)	220	59		639 (o)	137	294	55	140
2/21/2024									
2/22/2024									
2/23/2024				64					
8/20/2024	140	179	67	81	212	108	164	69	128
8/21/2024									
8/22/2024									

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			38	28	60				
6/8/2016						220	200	190	210
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	35	94	74	74					
7/28/2016					81				
8/1/2016						211	191	191	209
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35			67					
9/19/2016		92	45		68				
9/20/2016						217	213	205	224
9/21/2016									
11/1/2016									
11/2/2016			53						
11/3/2016	48	104		41	61				
11/4/2016									
11/7/2016						301	284	264	291
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133		104					
1/12/2017									
1/13/2017			46		76				
1/16/2017									
1/18/2017						265 (D)	158 (D)	167 (D)	
1/19/2017									215 (D)
2/21/2017						158	137		
2/22/2017									262
2/23/2017								253	
2/24/2017									
3/1/2017	79	119							
3/2/2017				77					
3/3/2017									
3/6/2017			164		167				
3/7/2017									
3/8/2017									
4/26/2017	36	162	34		50				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017				142					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
5/3/2017							269		
5/5/2017									
5/8/2017						207		174	187
5/26/2017									
6/27/2017									
6/28/2017	45	98							
6/29/2017			68	53	94				
6/30/2017								193	209
7/5/2017									
7/7/2017									
7/10/2017						219	183		
7/11/2017									
7/17/2017									
10/3/2017					149				
10/4/2017	45		54	61					
10/5/2017		104							
10/6/2017									183
10/9/2017								185	
10/10/2017						194	179		
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018					109				
6/6/2018			79						
6/7/2018		68							
6/8/2018									
6/11/2018	74			70					
6/12/2018									208
6/13/2018						228	196	219	
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	63	109	73	86	122				
9/26/2018									
10/1/2018									
10/2/2018						227	191	227	206
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								198	221

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-20S (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S
4/2/2019				72	134	223	224		
4/3/2019	63	89	57						
6/12/2019									
9/24/2019					157				
9/25/2019			75	81		225	190		
9/26/2019	72	126						198	225
10/8/2019									
10/9/2019									
3/17/2020									
3/18/2020									
3/19/2020							194		
3/20/2020						211		195	182
3/24/2020	59	91	76	71	117				
3/25/2020									
9/22/2020									
9/23/2020	81	103		99					
9/24/2020			69		113	212	171	186	185
9/25/2020									
3/1/2021									
3/2/2021							154		
3/3/2021	37	95	53	57		205		173	178
3/4/2021					110				
8/19/2021							176		
8/20/2021						224		196	169
8/26/2021	31								
8/27/2021		112	67	93					
9/1/2021					137				
9/3/2021									
2/8/2022									159
2/9/2022	60	103	72	81	131				
2/10/2022						207	168	190	
2/11/2022									
8/30/2022	52	100		81	122				
8/31/2022			62			228	206		
9/1/2022								193	124
2/7/2023	55	96	89	78	163				
2/8/2023									
2/9/2023						366	196	189	116
8/2/2023									
8/15/2023	81	96	62	74	126				
8/16/2023									
8/17/2023						248	207	186	137
2/20/2024		129	164	77	156				
2/21/2024								194	149
2/22/2024						215	188		
2/23/2024	52								
8/20/2024		128	75	86	143				
8/21/2024	79					237	215	184	
8/22/2024									130

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
6/1/2016								
6/2/2016								
6/6/2016								
6/7/2016								
6/8/2016								
6/9/2016	210	240	150					
7/25/2016								
7/26/2016								
7/27/2016								
7/28/2016								
8/1/2016								
8/2/2016	202	226	155					
8/30/2016				319				
8/31/2016					209			
9/13/2016								
9/14/2016						152		
9/15/2016								
9/16/2016								
9/19/2016								
9/20/2016								
9/21/2016	216	214	138					
11/1/2016								
11/2/2016								
11/3/2016								
11/4/2016						148		
11/7/2016	399		291					
11/8/2016		229						
11/14/2016				280				
11/28/2016					102			
12/15/2016						191		
1/10/2017								
1/11/2017								
1/12/2017								
1/13/2017								
1/16/2017						180		
1/18/2017	215 (D)	243 (D)						
1/19/2017			145 (D)					
2/21/2017	198							
2/22/2017		310	185		164			
2/23/2017								
2/24/2017				162				
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								

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
5/3/2017								
5/5/2017	347	289						
5/8/2017			114	194	145			
5/26/2017						223		
6/27/2017								
6/28/2017						166		
6/29/2017								
6/30/2017								
7/5/2017		217	136					
7/7/2017	236							
7/10/2017								
7/11/2017				193				
7/17/2017					185			
10/3/2017						153		
10/4/2017								
10/5/2017		221	139					
10/6/2017								
10/9/2017	204							
10/10/2017				175				
10/11/2017							68	
10/12/2017								74
10/16/2017					218			
11/20/2017							139	179
1/10/2018								140
1/11/2018							153	
2/19/2018					173			119
2/20/2018							87	
4/2/2018				192				
4/3/2018							85	106
6/5/2018								
6/6/2018								
6/7/2018						146		
6/8/2018								
6/11/2018			156					
6/12/2018	243	234						
6/13/2018								
6/28/2018							88	112
8/6/2018					158			
8/7/2018							89	103
9/19/2018				186				
9/24/2018							82	107
9/25/2018								
9/26/2018								
10/1/2018						155		
10/2/2018			154					
10/3/2018	237	232						
2/25/2019					92			
3/26/2019								90
3/27/2019				170			75	
3/28/2019								
3/29/2019						150		
4/1/2019		238	147					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/7/2024 3:37 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29IB	YGWA-47 (bg)	GWA-2 (bg)	YGWA-2I (bg)	YGWA-39 (bg)	YGWA-40 (bg)
4/2/2019	<25							
4/3/2019								
6/12/2019					226			
9/24/2019						146		
9/25/2019			162					
9/26/2019	239	241						
10/8/2019				172	276			
10/9/2019							119	98
3/17/2020				165	185			
3/18/2020								
3/19/2020	202	212				148		
3/20/2020			137					
3/24/2020								84
3/25/2020							158	
9/22/2020				141	281			
9/23/2020						161		
9/24/2020	226	209	133				170	77
9/25/2020								
3/1/2021				145				
3/2/2021					296			
3/3/2021	217	184	110			138		
3/4/2021							168	57
8/19/2021				134				
8/20/2021	192	194	110		254			
8/26/2021							249	
8/27/2021						150		
9/1/2021								
9/3/2021								88
2/8/2022	216	206	120	151	283		248	93
2/9/2022						156		
2/10/2022								
2/11/2022								
8/30/2022					244	153		
8/31/2022				116			242	92
9/1/2022	225	186	128					
2/7/2023					207	159	224	
2/8/2023			158	141				115
2/9/2023	226	184						
8/2/2023			152					
8/15/2023				186	230	157	225	83
8/16/2023	233	171						
8/17/2023								
2/20/2024				159	214	159	233	109
2/21/2024	235	213						
2/22/2024			146					
2/23/2024								
8/20/2024				155		184		
8/21/2024							235	94
8/22/2024	226	193	154					

ND substitution: RL or RL/2 if <15% NDs.

FIGURE F.

Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	**YGWC-26I**	**-0.03859**	**-145**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01447**	**108**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-27S**	**-0.06033**	**-131**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-39 (bg)**	**0.01793**	**115**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01202**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-5D (bg)**	**0.0007069**	**99**	**98**	**Yes**	**23**	**26.09**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.0326**	**-128**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.0226**	**-105**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26I**	**-0.3595**	**-137**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.2958**	**-102**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-27S**	**-1.383**	**-189**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3342**	**-132**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.914**	**205**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.1003**	**131**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-20S (bg)**	**0.09204**	**163**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2393**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5475**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**

Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:39 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.0003528	-52	-98	No	23	8.696	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	0.001231	72	98	No	23	43.48	n/a	0.01	NP
Boron (mg/L)	YGWA-1I (bg)	0	-15	-98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	YGWA-2I (bg)	0	10	98	No	23	82.61	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-7	-98	No	23	86.96	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	32	98	No	23	65.22	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-9	-98	No	23	91.3	n/a	0.01	NP
Boron (mg/L)	**YGWC-26I**	**-0.03859**	**-145**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWC-26S**	**0.01447**	**108**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-27I	0.02326	37	98	No	23	0	n/a	0.01	NP
Boron (mg/L)	**YGWC-27S**	**-0.06033**	**-131**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWC-28I	-0.08449	-91	-98	No	23	0	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	-0.04398	-59	-98	No	23	0	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.0002753	-20	-81	No	20	10	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	0.0006852	91	98	No	23	21.74	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-6	-98	No	23	82.61	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	0.001019	79	98	No	23	30.43	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-1	-98	No	23	91.3	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	0	-14	-98	No	23	60.87	n/a	0.01	NP
Boron (mg/L)	**YGWA-39 (bg)**	**0.01793**	**115**	**81**	**Yes**	**20**	**5**	**n/a**	**0.01**	**NP**
Boron (mg/L)	**YGWA-40 (bg)**	**-0.01202**	**-131**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-4I (bg)	0	25	98	No	23	73.91	n/a	0.01	NP
Boron (mg/L)	**YGWA-5D (bg)**	**0.0007069**	**99**	**98**	**Yes**	**23**	**26.09**	**n/a**	**0.01**	**NP**
Boron (mg/L)	YGWA-5I (bg)	0	3	98	No	23	69.57	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	26	81	No	20	65	n/a	0.01	NP
Boron (mg/L)	YGWC-29IB	-0.009648	-63	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.08864	65	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-52	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-1I (bg)	-0.01344	-54	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.01855	-67	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	-0.02934	-82	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-3D (bg)**	**-0.0326**	**-128**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-3I (bg)**	**-0.0226**	**-105**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26I**	**-0.3595**	**-137**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-26S**	**-0.2958**	**-102**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWC-27S**	**-1.383**	**-189**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWC-28S	-0.2493	-97	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-47 (bg)**	**-0.3342**	**-132**	**-81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-17S (bg)**	**0.914**	**205**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	**YGWA-18I (bg)**	**0.1003**	**131**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-18S (bg)	0.09349	79	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-20S (bg)**	**0.09204**	**163**	**98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-21I (bg)	-0.05993	-61	-98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.4784	81	81	No	20	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-40 (bg)**	**0.2393**	**106**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-4I (bg)	0.08971	97	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**YGWA-5D (bg)**	**-0.5475**	**-187**	**-98**	**Yes**	**23**	**0**	**n/a**	**0.01**	**NP**
Chloride (mg/L)	YGWA-5I (bg)	0.02938	38	98	No	23	0	n/a	0.01	NP
Chloride (mg/L)	**GWA-2 (bg)**	**0.2946**	**117**	**81**	**Yes**	**20**	**0**	**n/a**	**0.01**	**NP**

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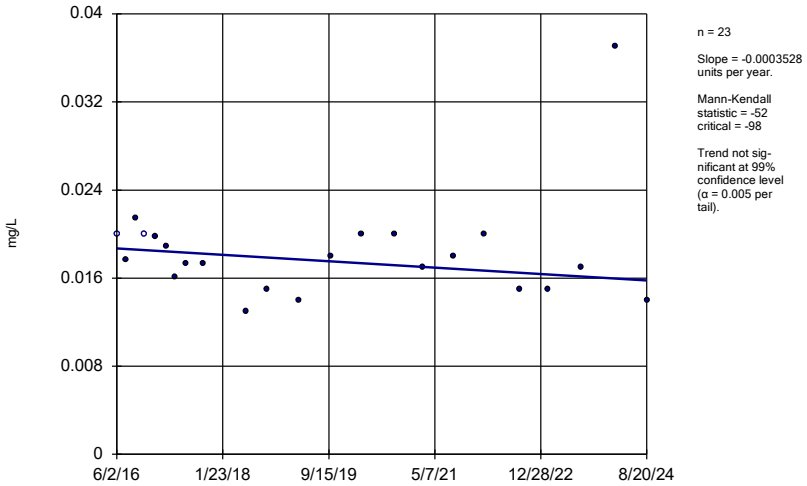
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = -0.0003528 units per year.

Mann-Kendall statistic = -52
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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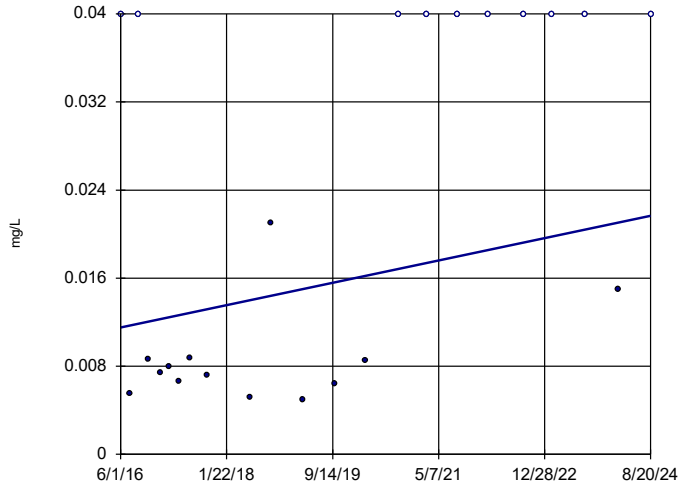
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0.001231 units per year.

Mann-Kendall statistic = 72
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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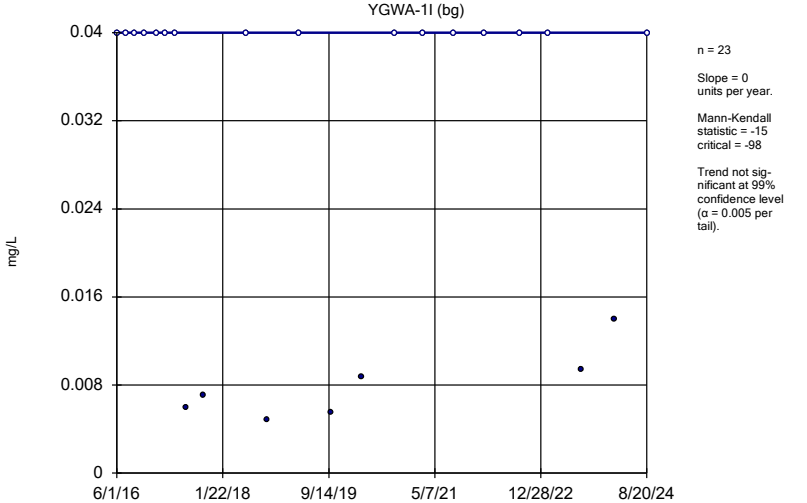
Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -15
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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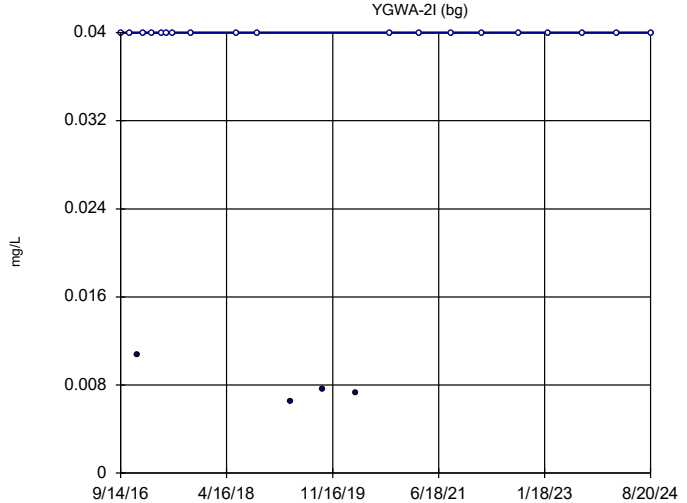
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 10
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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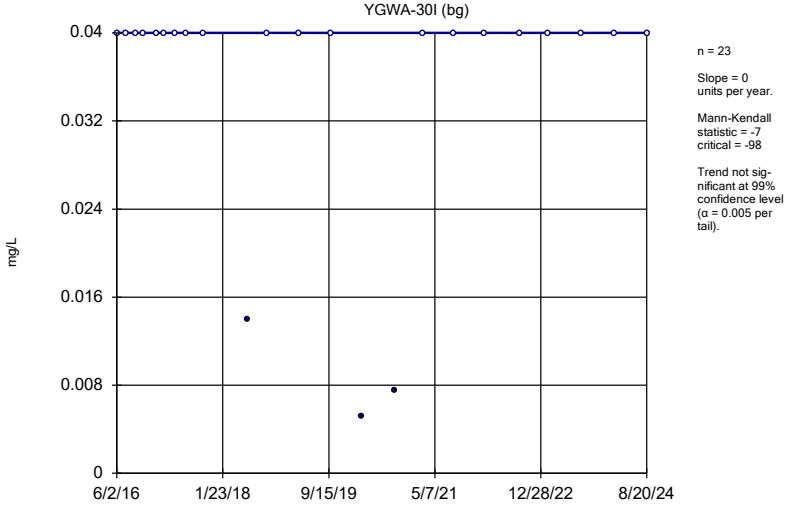
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -7
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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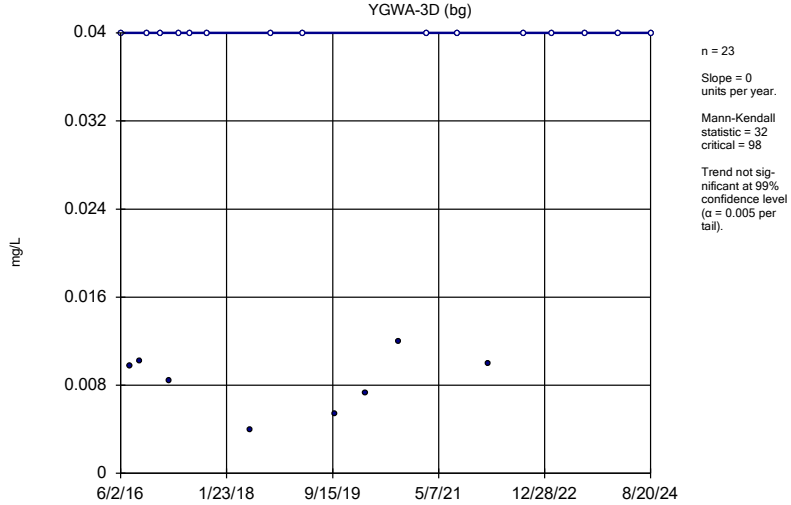
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 32
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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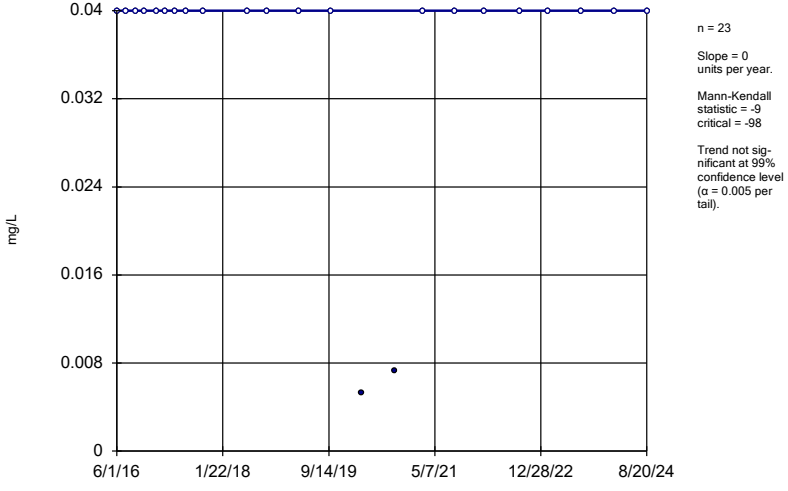
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -9
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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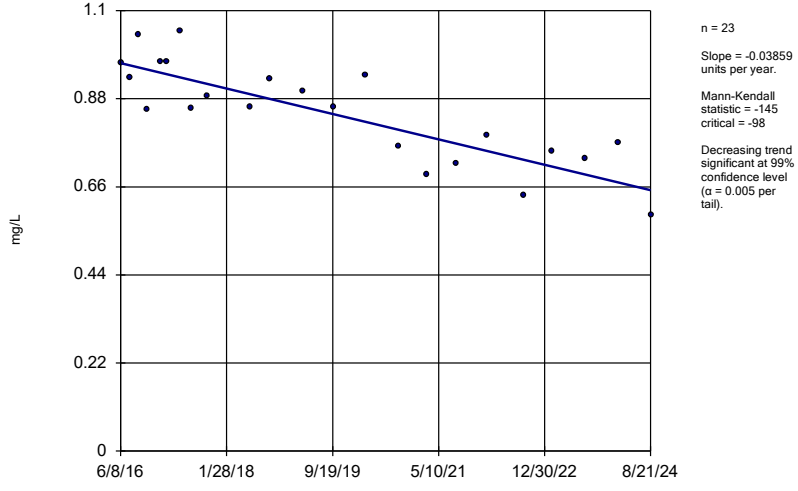
Sen's Slope Estimator

YGWC-26I



n = 23

Slope = -0.03859 units per year.

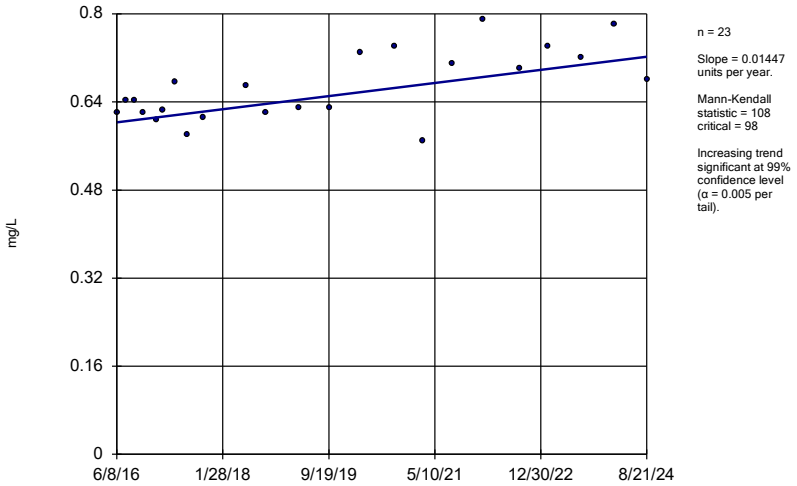
Mann-Kendall statistic = -145
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S



n = 23

Slope = 0.01447 units per year.

Mann-Kendall statistic = 108
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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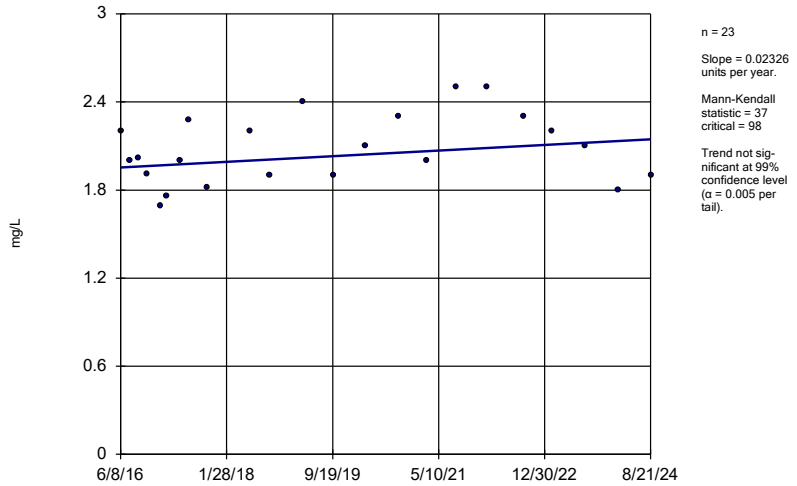
Sen's Slope Estimator

YGWC-27I



n = 23

Slope = 0.02326 units per year.

Mann-Kendall statistic = 37
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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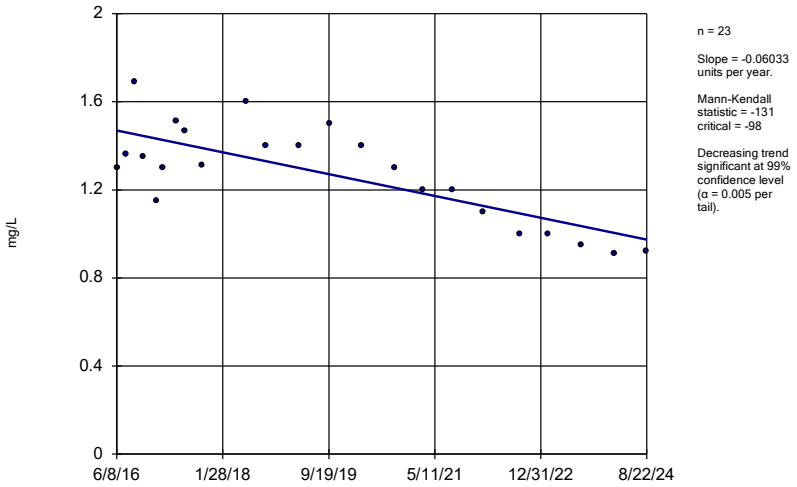
Sen's Slope Estimator

YGWC-27S



n = 23

Slope = -0.06033 units per year.

Mann-Kendall statistic = -131
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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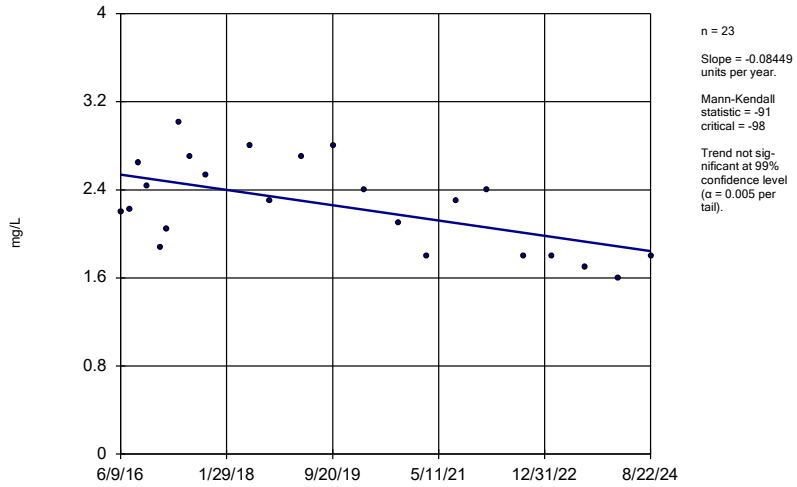
Sen's Slope Estimator

YGWC-28I



n = 23

Slope = -0.08449 units per year.

Mann-Kendall statistic = -91
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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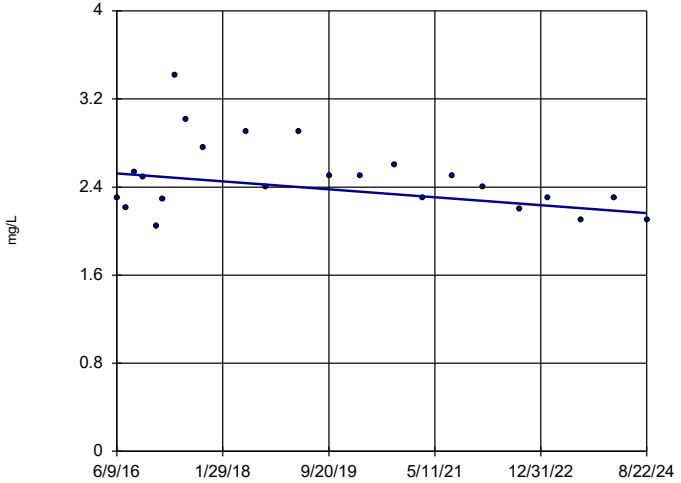
Sen's Slope Estimator

YGWC-28S



n = 23

Slope = -0.04398 units per year.

Mann-Kendall statistic = -59
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:37 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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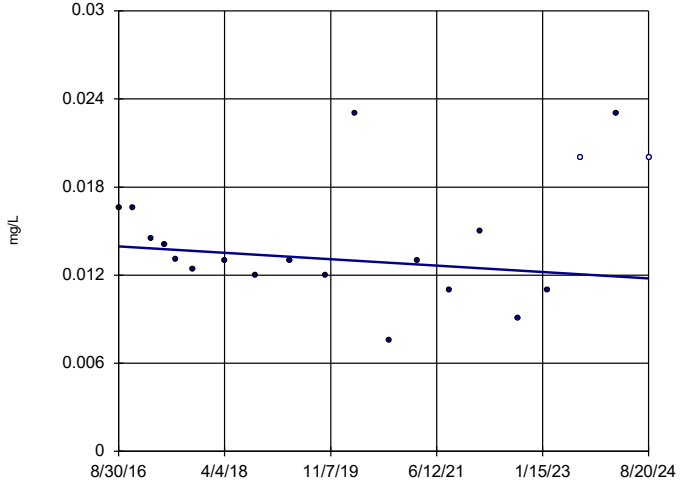
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.0002753 units per year.

Mann-Kendall statistic = -20
critical = -81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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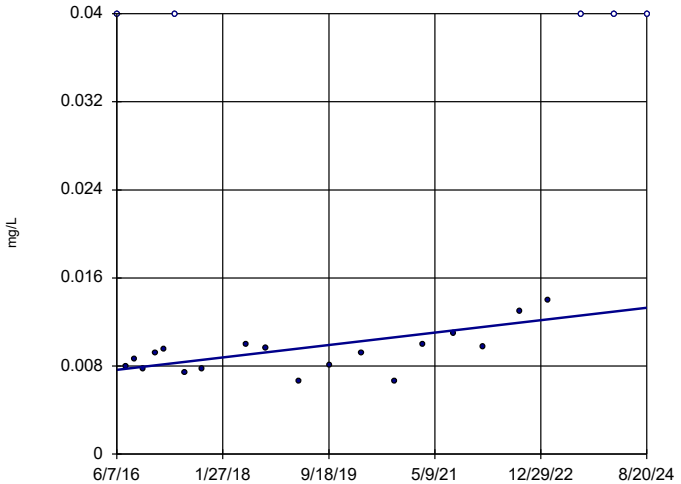
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.0006852 units per year.

Mann-Kendall statistic = 91
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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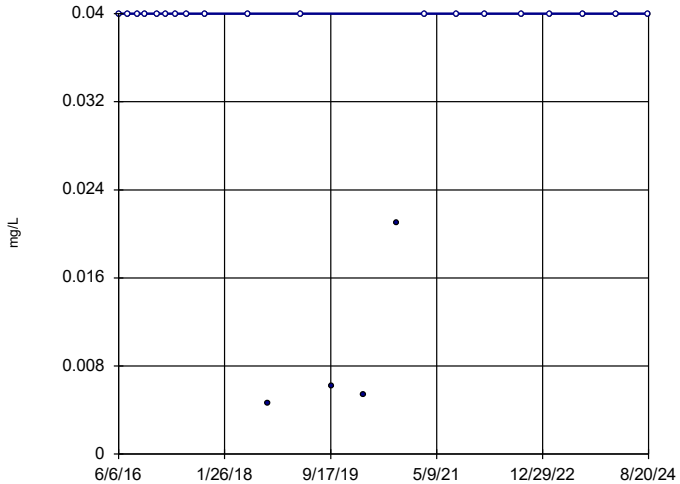
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -6
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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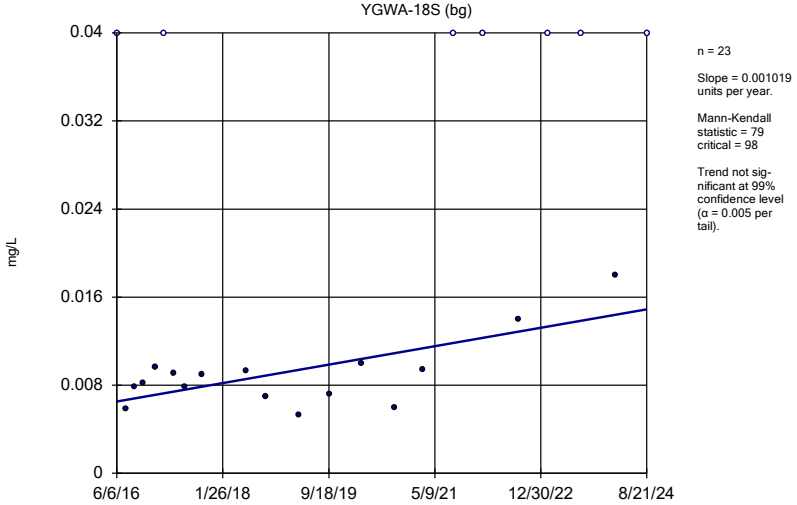
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 0.001019 units per year.

Mann-Kendall statistic = 79
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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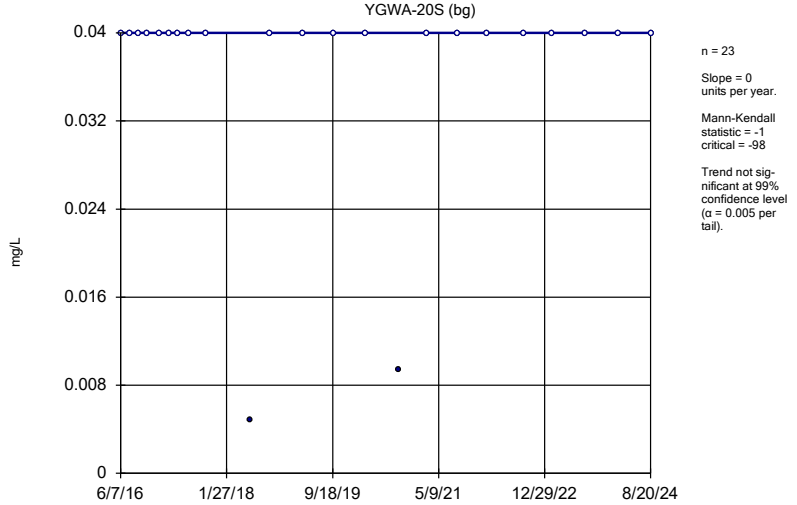
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -1
critical = -98

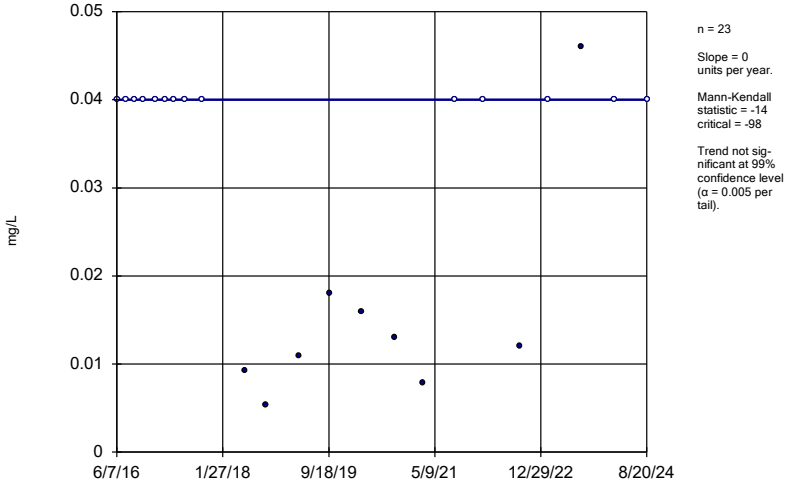
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -14
critical = -98

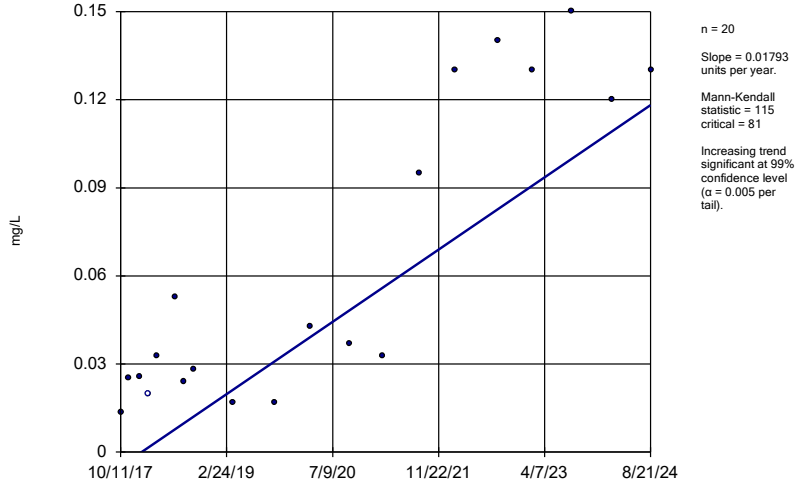
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 0.01793 units per year.

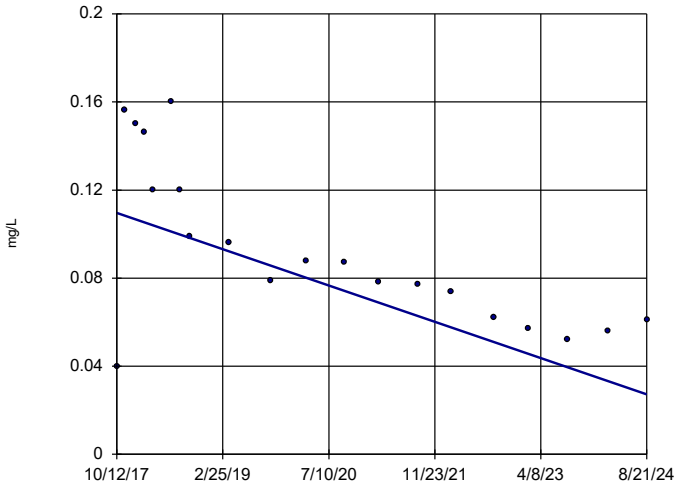
Mann-Kendall statistic = 115
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = -0.01202 units per year.

Mann-Kendall statistic = -131
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

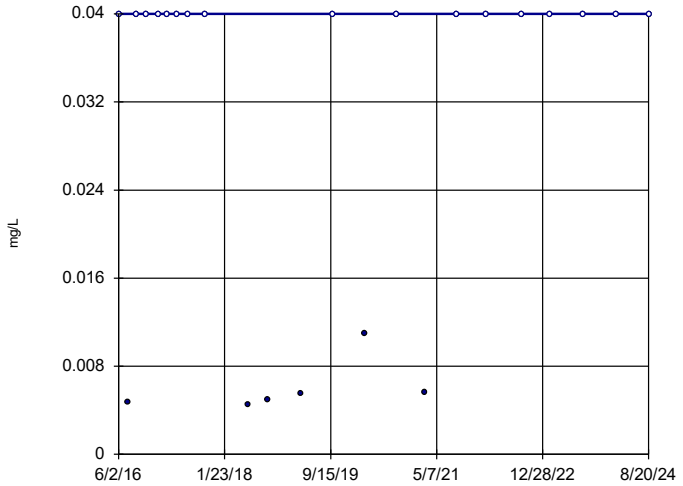
Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 25
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

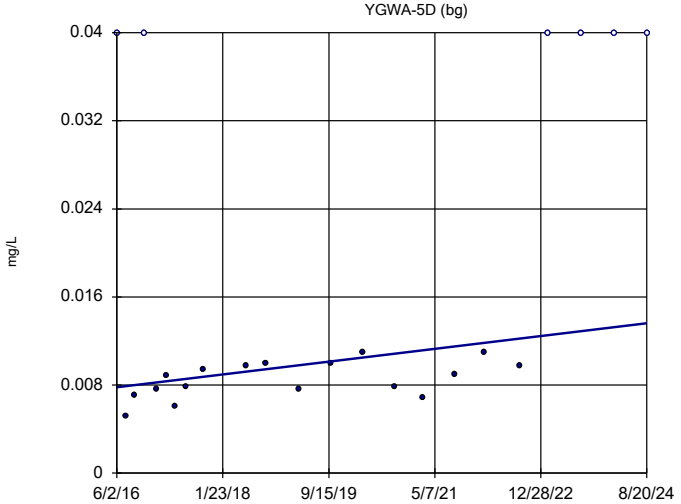
Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = 0.0007069 units per year.

Mann-Kendall statistic = 99
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

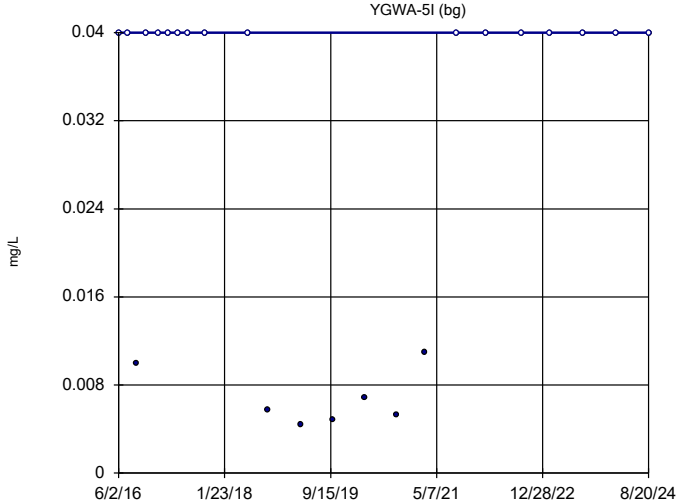
Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = 3
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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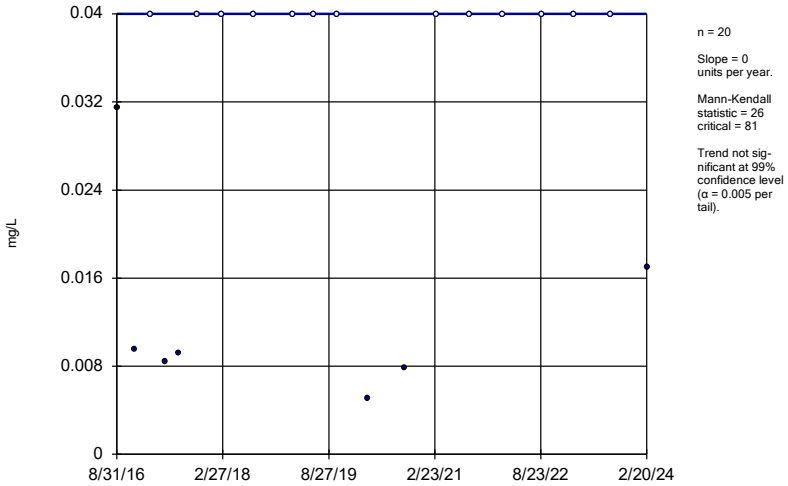
Hollow symbols indicate censored values.

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0 units per year.

Mann-Kendall statistic = 26 critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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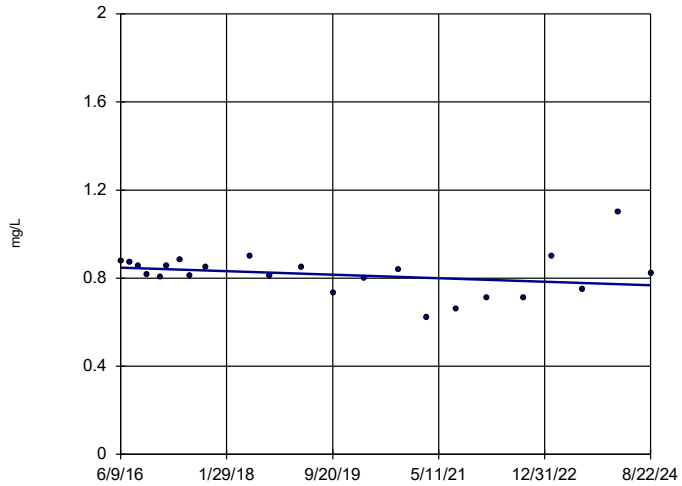
Sen's Slope Estimator

YGWC-29IB



n = 23

Slope = -0.009648 units per year.

Mann-Kendall statistic = -63 critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Boron Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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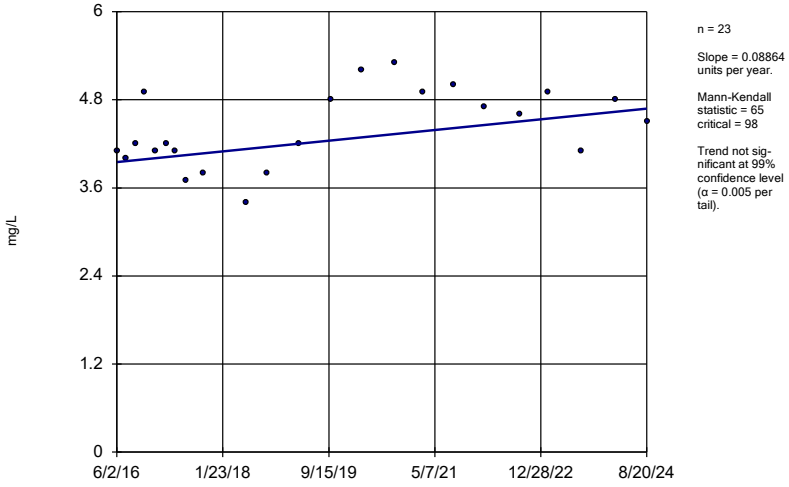
Sen's Slope Estimator

YGWA-14S (bg)



n = 23

Slope = 0.08864 units per year.

Mann-Kendall statistic = 65 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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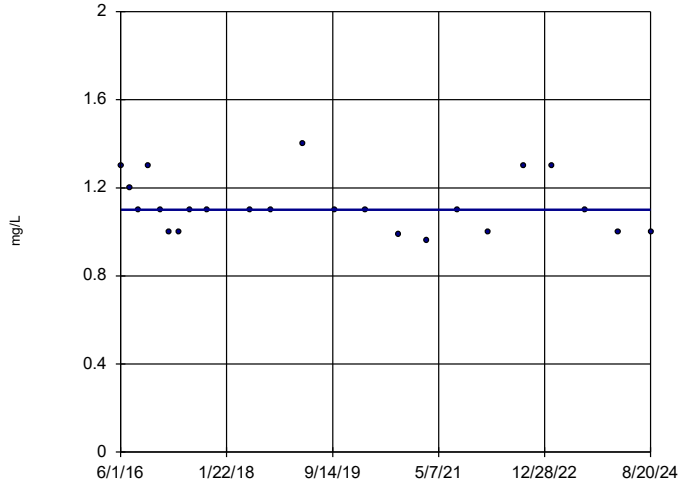
Sen's Slope Estimator

YGWA-1D (bg)



n = 23

Slope = 0 units per year.

Mann-Kendall statistic = -52 critical = -98

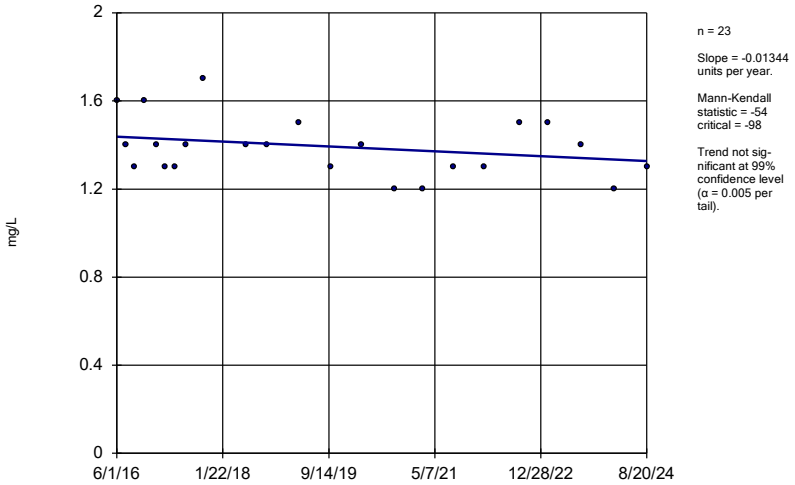
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1I (bg)



n = 23

Slope = -0.01344 units per year.

Mann-Kendall statistic = -54 critical = -98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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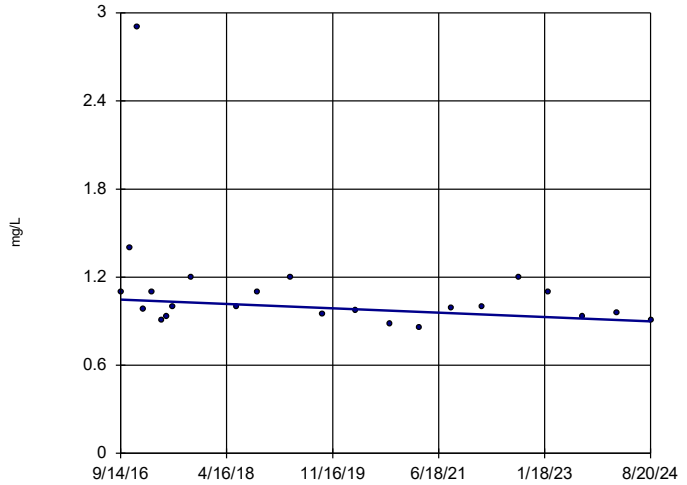
Sen's Slope Estimator

YGWA-2I (bg)



n = 23

Slope = -0.01855 units per year.

Mann-Kendall statistic = -67 critical = -98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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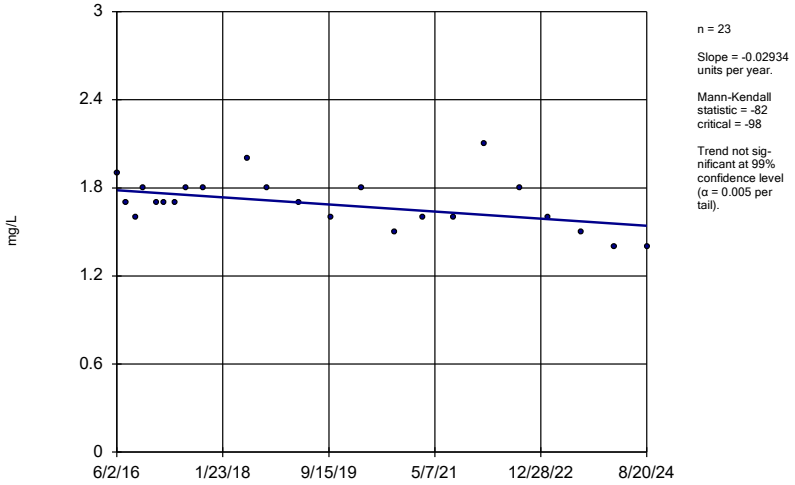
Sen's Slope Estimator

YGWA-30I (bg)



n = 23

Slope = -0.02934 units per year.

Mann-Kendall statistic = -82 critical = -98

Trend not sig-nificant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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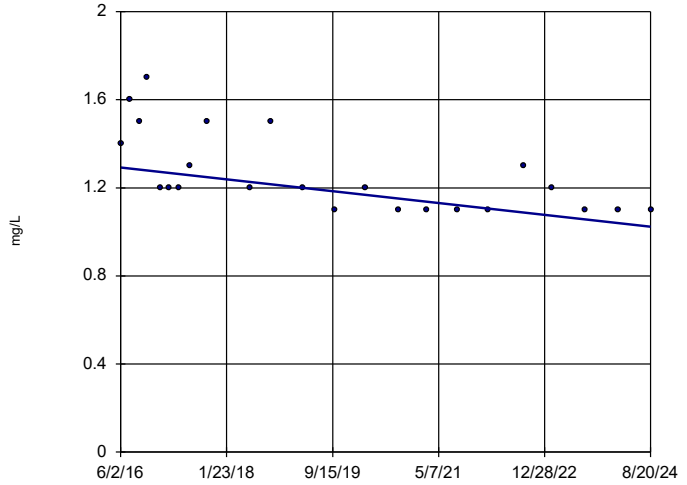
Sen's Slope Estimator

YGWA-3D (bg)



n = 23

Slope = -0.0326 units per year.

Mann-Kendall statistic = -128 critical = -98

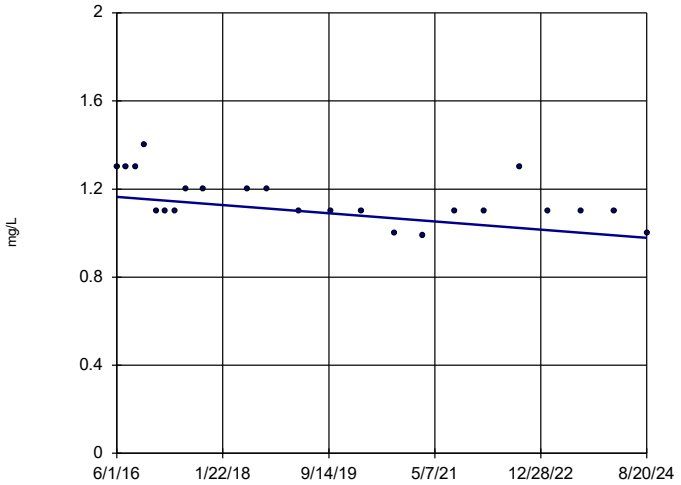
Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)



n = 23

Slope = -0.0226 units per year.

Mann-Kendall statistic = -105
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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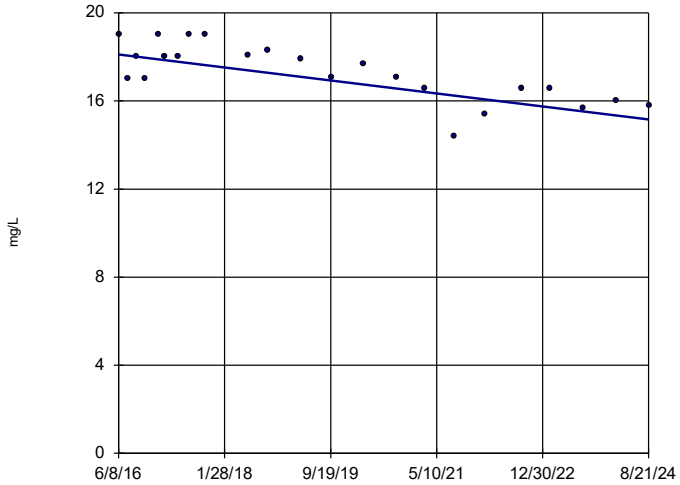
Sen's Slope Estimator

YGWC-26I



n = 23

Slope = -0.3595 units per year.

Mann-Kendall statistic = -137
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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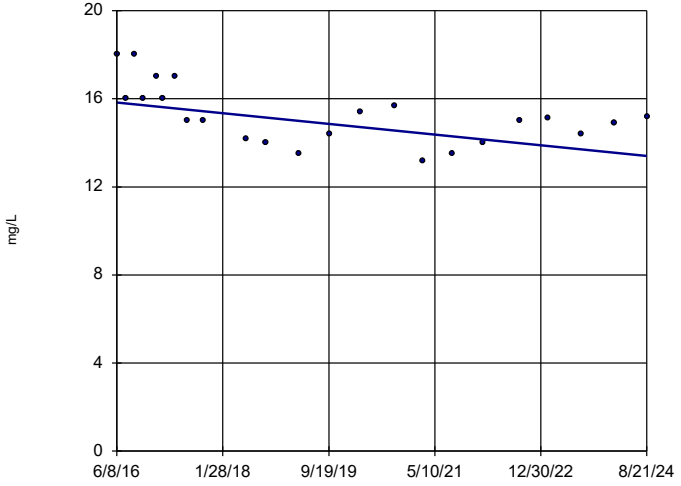
Sen's Slope Estimator

YGWC-26S



n = 23

Slope = -0.2958 units per year.

Mann-Kendall statistic = -102
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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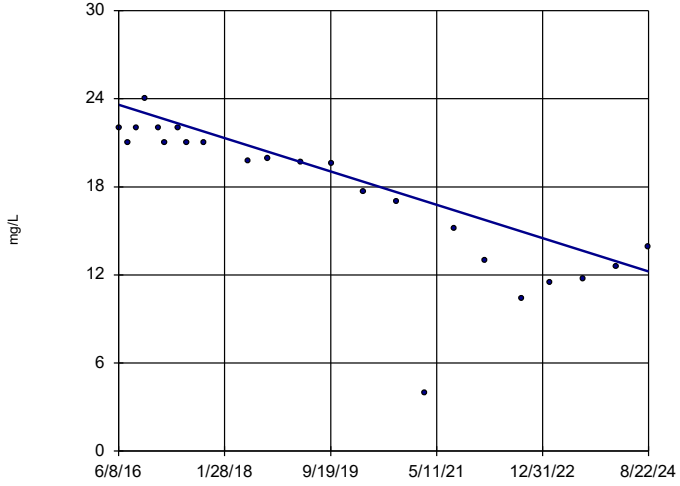
Sen's Slope Estimator

YGWC-27S



n = 23

Slope = -1.383 units per year.

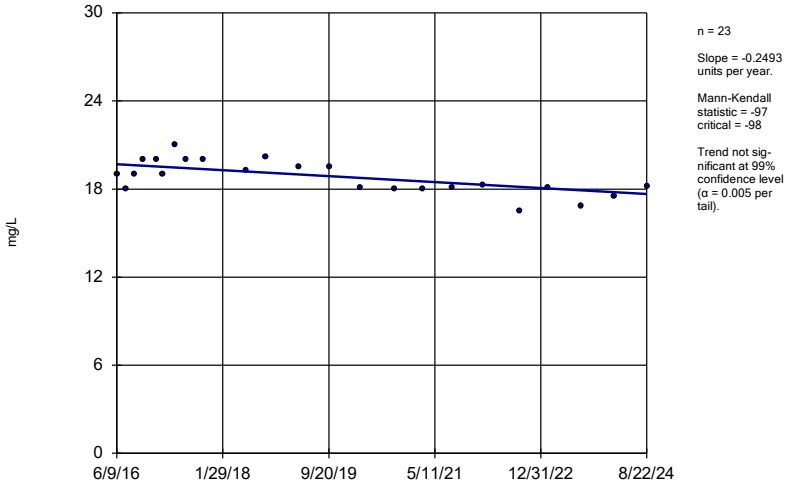
Mann-Kendall statistic = -189
critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28S



n = 23

Slope = -0.2493 units per year.

Mann-Kendall statistic = -97
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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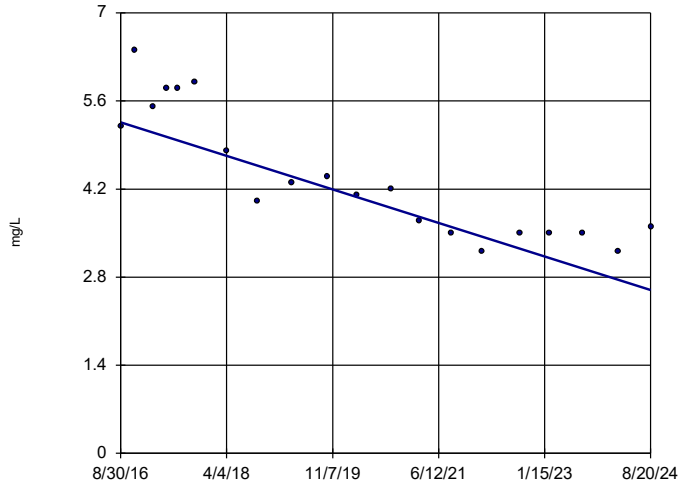
Sen's Slope Estimator

YGWA-47 (bg)



n = 20

Slope = -0.3342 units per year.

Mann-Kendall statistic = -132
critical = -81

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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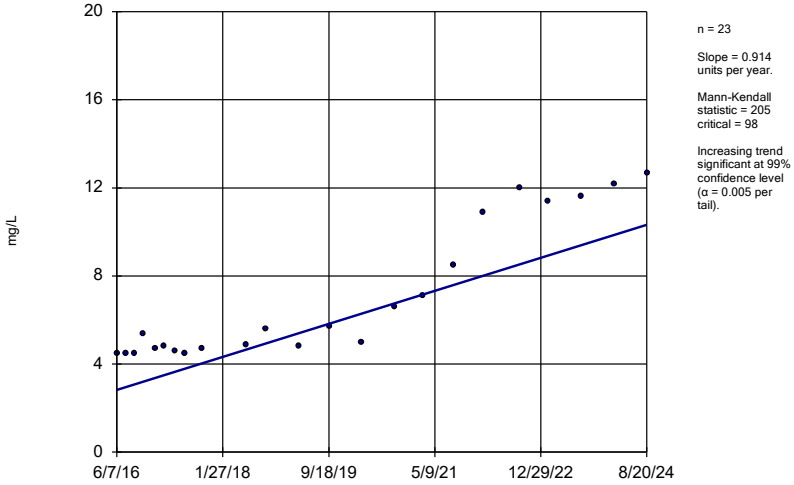
Sen's Slope Estimator

YGWA-17S (bg)



n = 23

Slope = 0.914 units per year.

Mann-Kendall statistic = 205
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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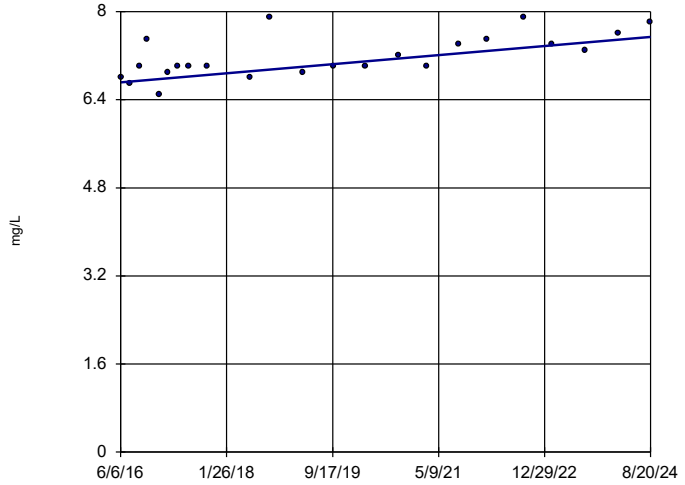
Sen's Slope Estimator

YGWA-18I (bg)



n = 23

Slope = 0.1003 units per year.

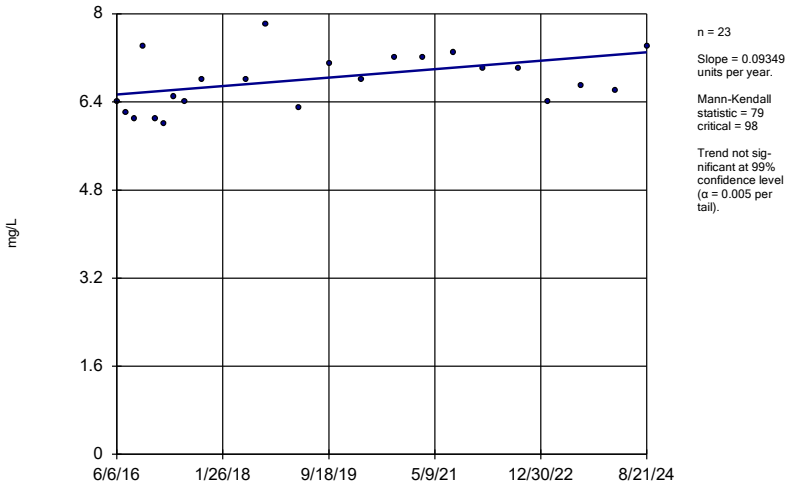
Mann-Kendall statistic = 131
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-18S (bg)



n = 23

Slope = 0.09349 units per year.

Mann-Kendall statistic = 79
critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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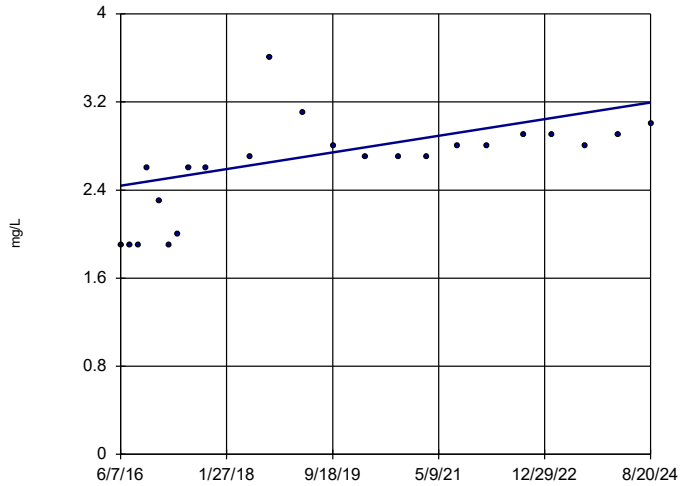
Sen's Slope Estimator

YGWA-20S (bg)



n = 23

Slope = 0.09204 units per year.

Mann-Kendall statistic = 163
critical = 98

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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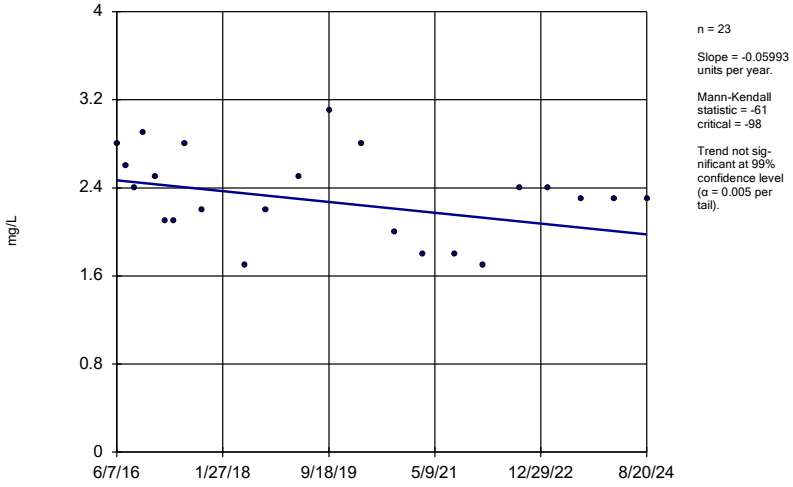
Sen's Slope Estimator

YGWA-21I (bg)



n = 23

Slope = -0.05993 units per year.

Mann-Kendall statistic = -61
critical = -98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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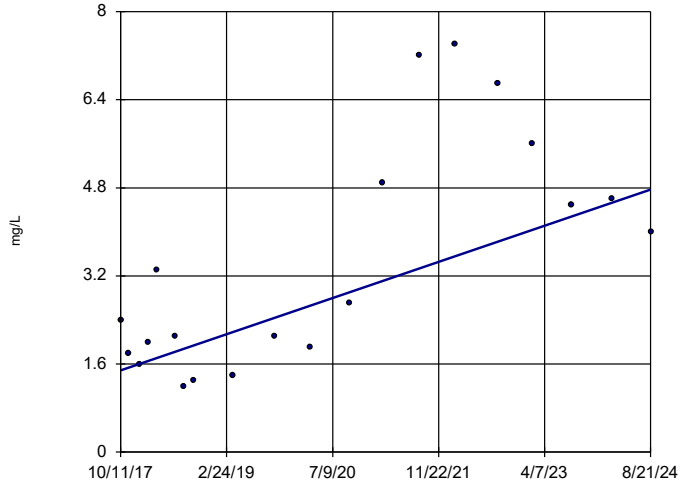
Sen's Slope Estimator

YGWA-39 (bg)



n = 20

Slope = 0.4784 units per year.

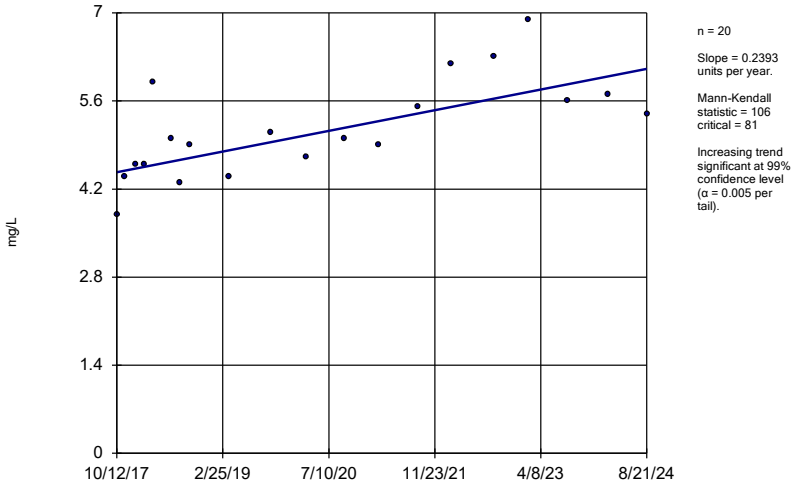
Mann-Kendall statistic = 81
critical = 81

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-40 (bg)



n = 20

Slope = 0.2393 units per year.

Mann-Kendall statistic = 106 critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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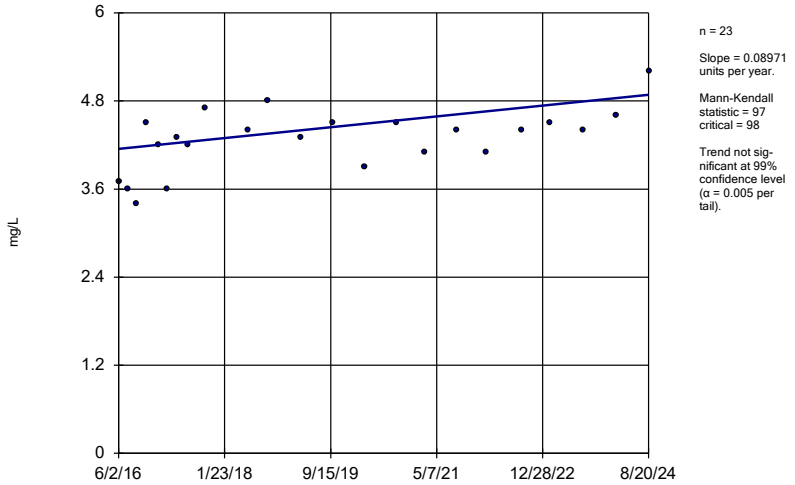
Sen's Slope Estimator

YGWA-4I (bg)



n = 23

Slope = 0.08971 units per year.

Mann-Kendall statistic = 97 critical = 98

Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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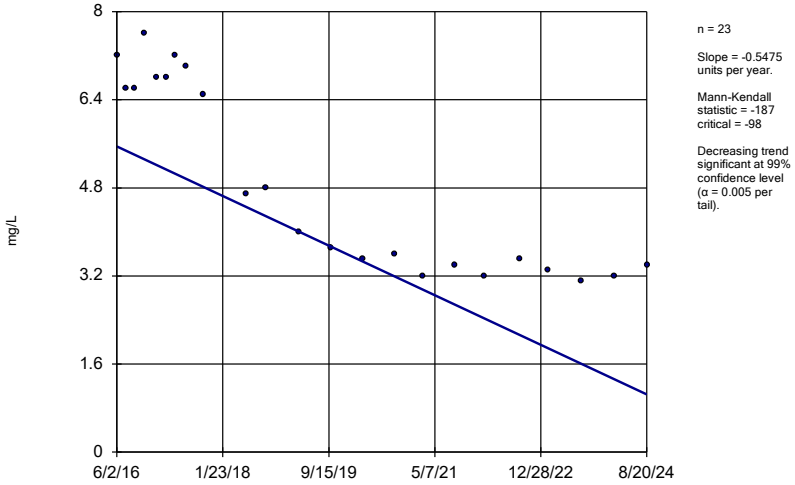
Sen's Slope Estimator

YGWA-5D (bg)



n = 23

Slope = -0.5475 units per year.

Mann-Kendall statistic = -187 critical = -98

Decreasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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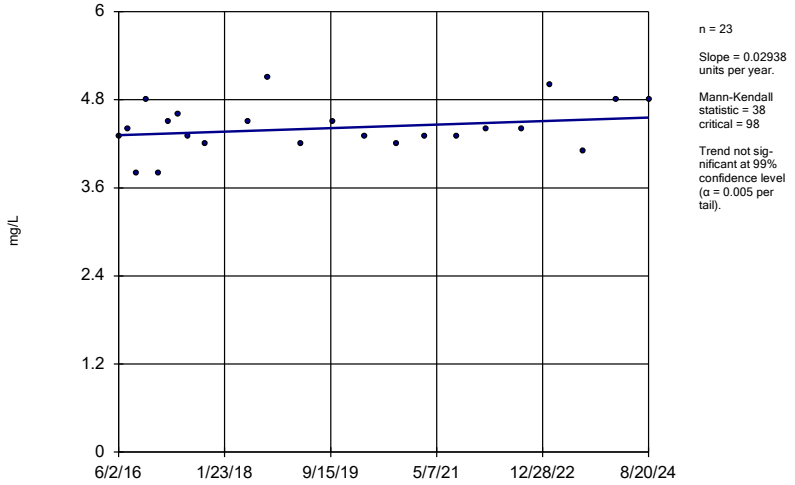
Sen's Slope Estimator

YGWA-5I (bg)



n = 23

Slope = 0.02938 units per year.

Mann-Kendall statistic = 38 critical = 98

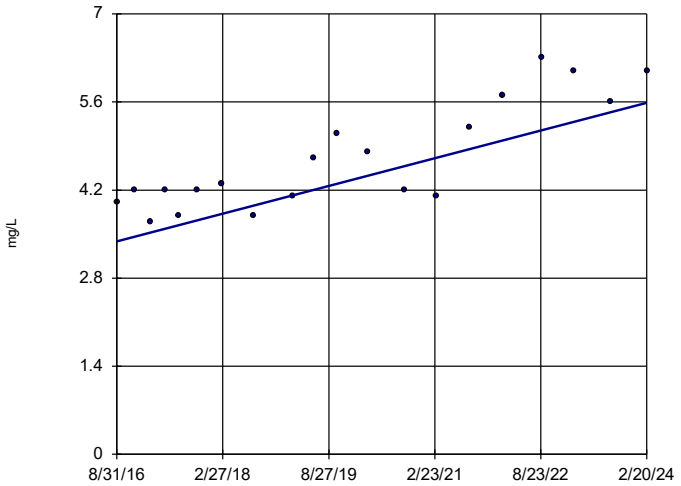
Trend not significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

GWA-2 (bg)



n = 20

Slope = 0.2946 units per year.

Mann-Kendall statistic = 117
critical = 81

Increasing trend significant at 99% confidence level (α = 0.005 per tail).

Constituent: Chloride Analysis Run 11/7/2024 3:38 PM View: Appendix III - Trend Tests

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE G.

Upper Tolerance Limits

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/7/2024, 3:44 PM

Constituent	Upper Lim.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	447	n/a	n/a	88.14	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	495	n/a	n/a	75.35	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.21	495	n/a	n/a	2.222	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.0011	479	n/a	n/a	80.17	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.00063	479	n/a	n/a	94.99	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.0093	447	n/a	n/a	82.33	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	489	n/a	n/a	68.92	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	474	n/a	n/a	0	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	494	n/a	n/a	62.96	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.0013	449	n/a	n/a	87.75	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	474	n/a	n/a	27.43	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.00064	403	n/a	n/a	89.58	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.03	438	n/a	n/a	61.19	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.005	477	n/a	n/a	92.87	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	413	n/a	n/a	97.58	n/a	n/a	NaN	NP Inter(NDs)

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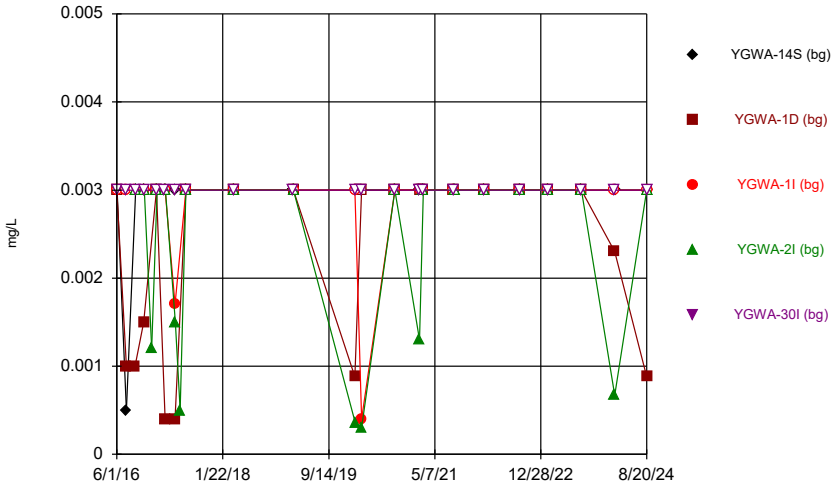
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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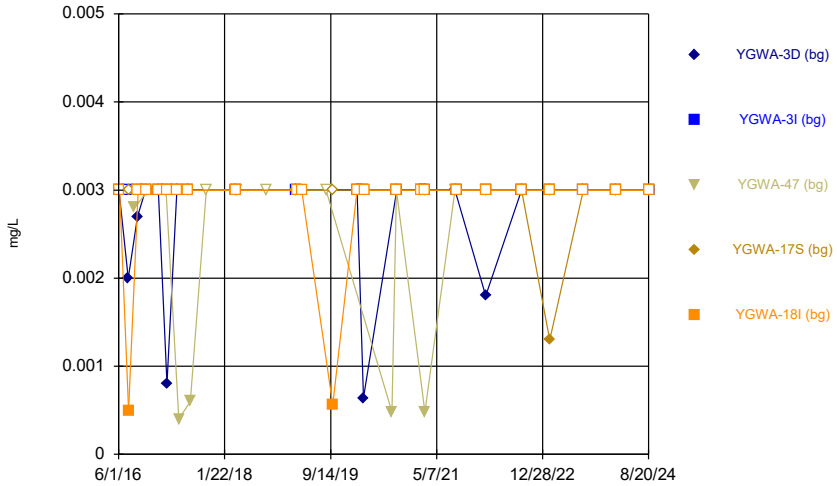
Hollow symbols indicate censored values.

Time Series



Constituent: Antimony Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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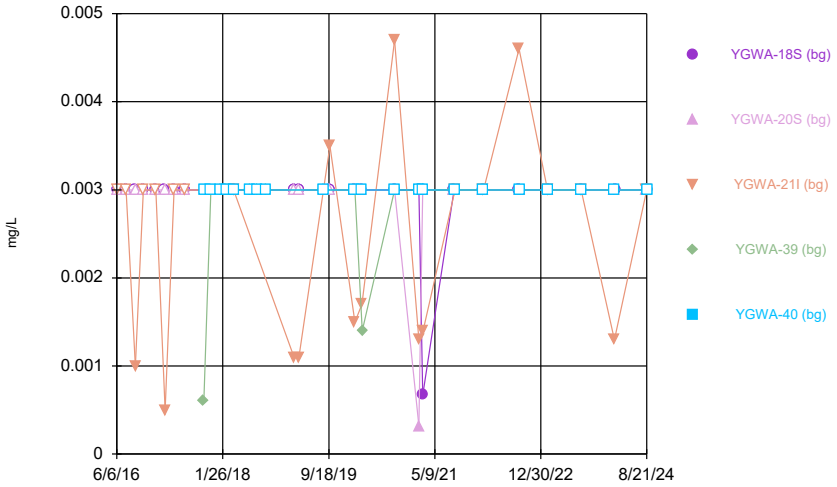
Hollow symbols indicate censored values.

Time Series



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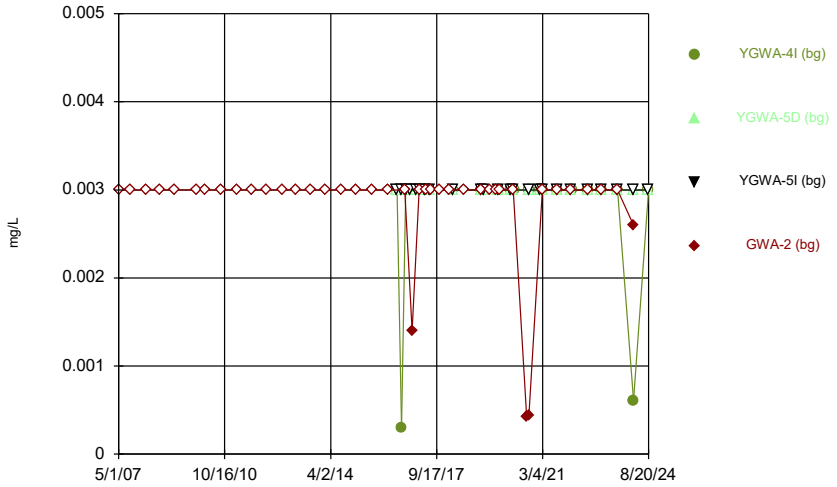
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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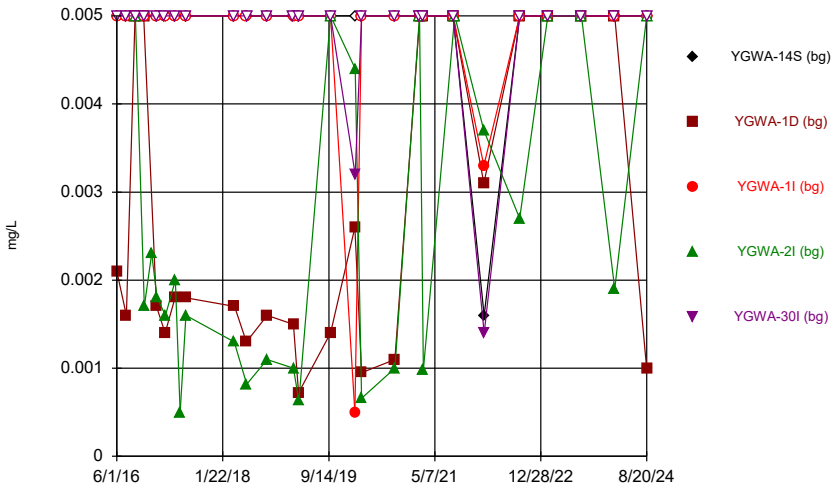
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Arsenic Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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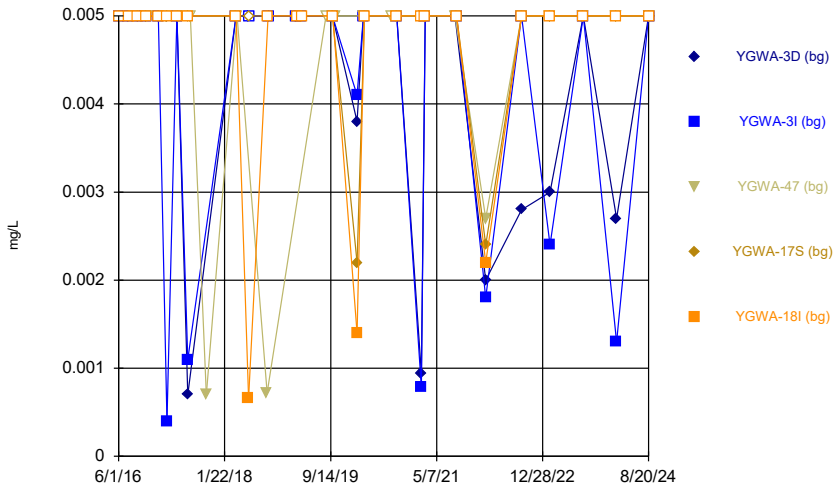

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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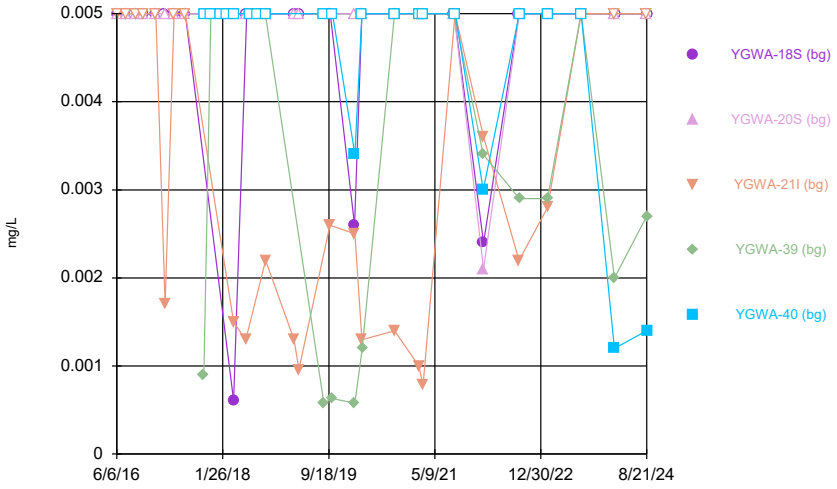

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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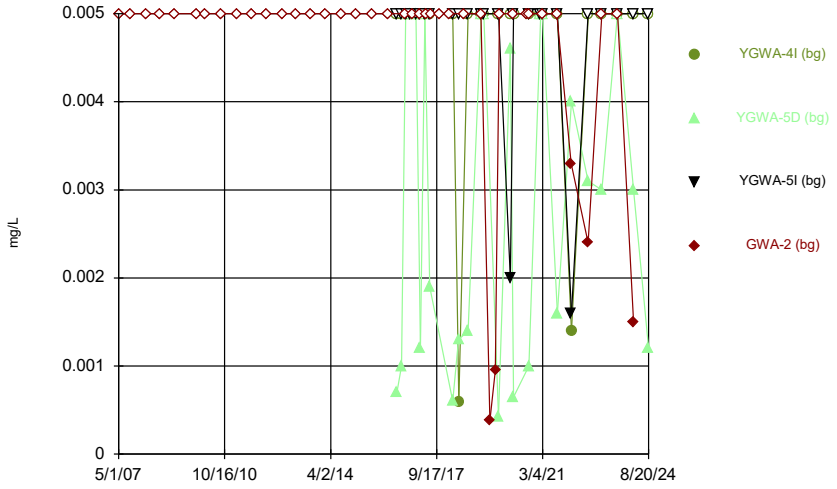

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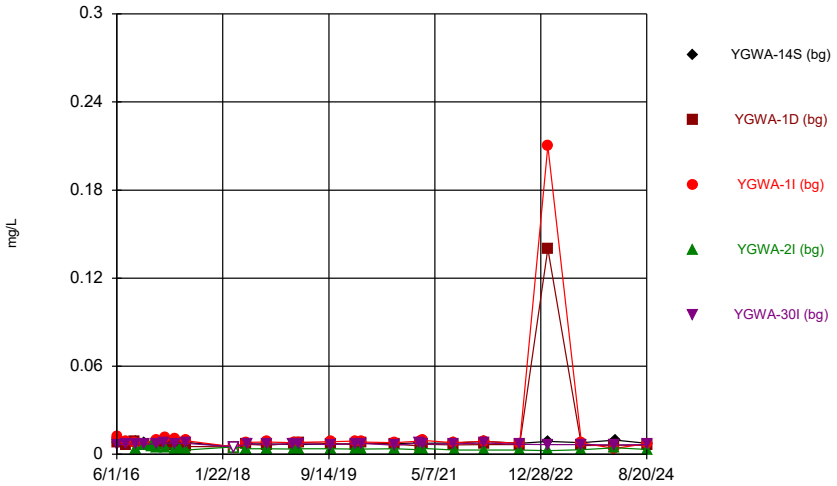
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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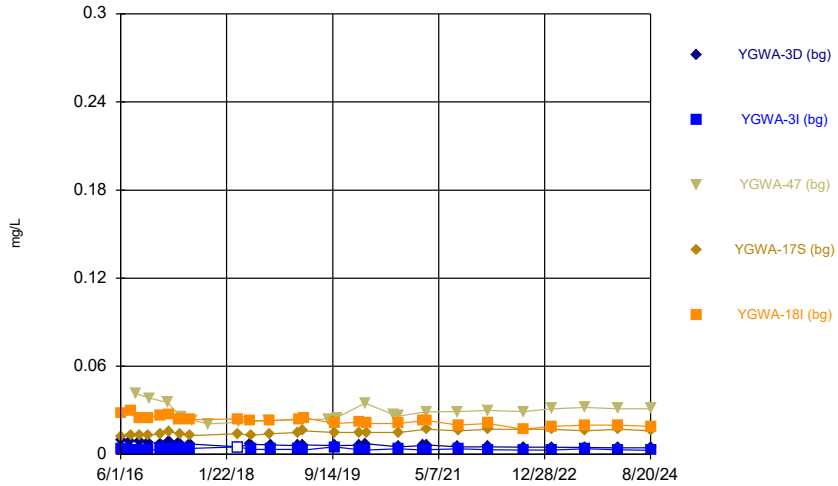
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
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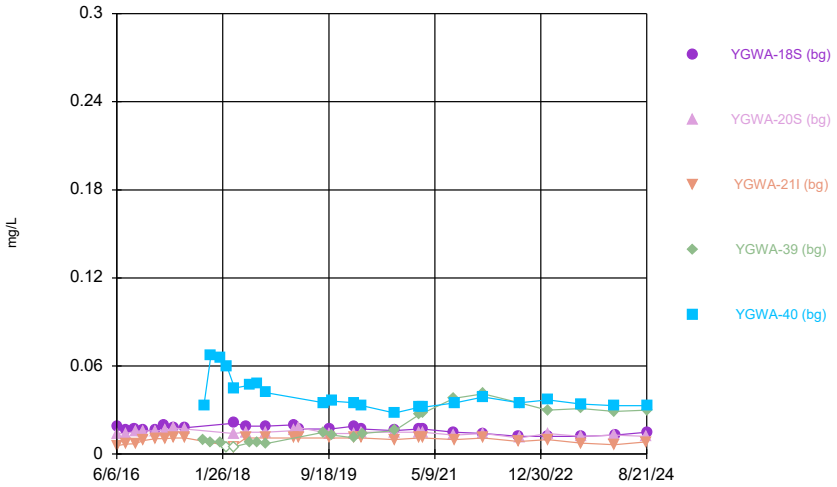

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Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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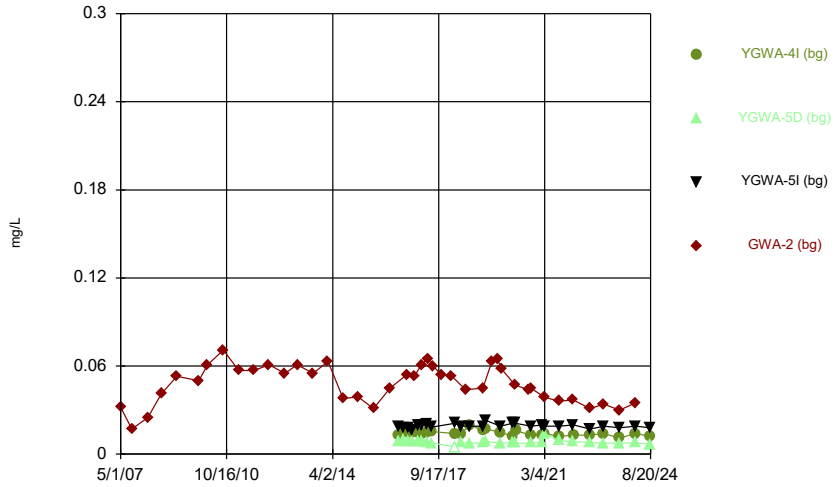

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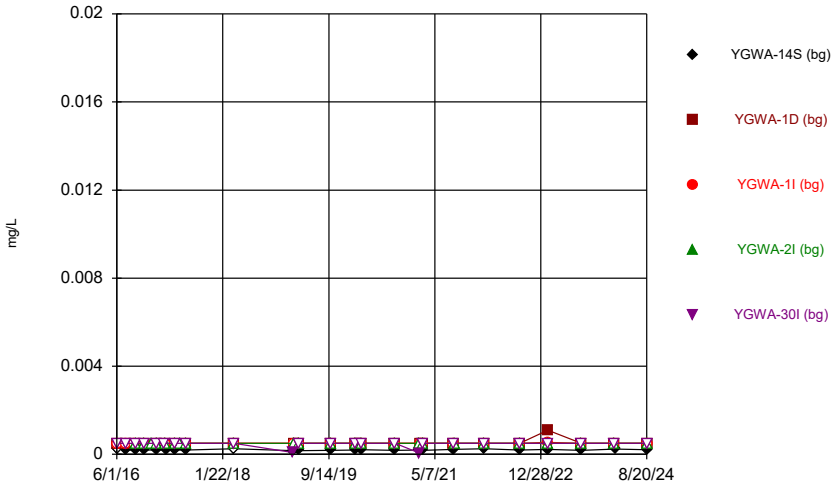
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Beryllium Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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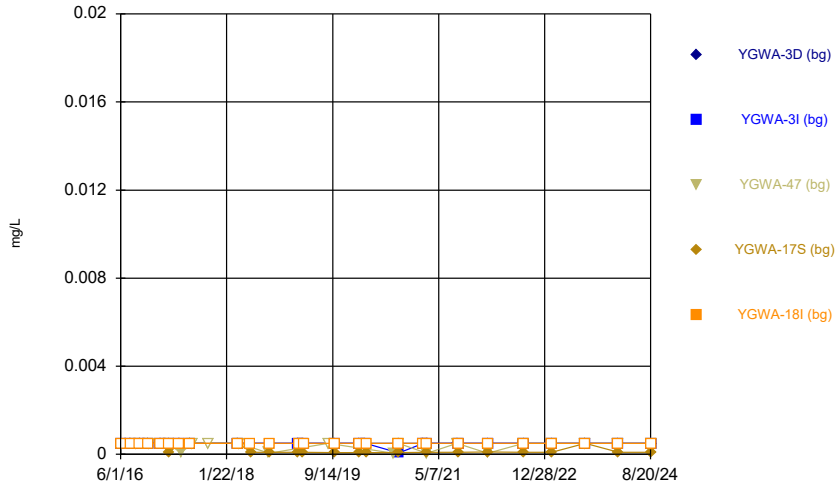

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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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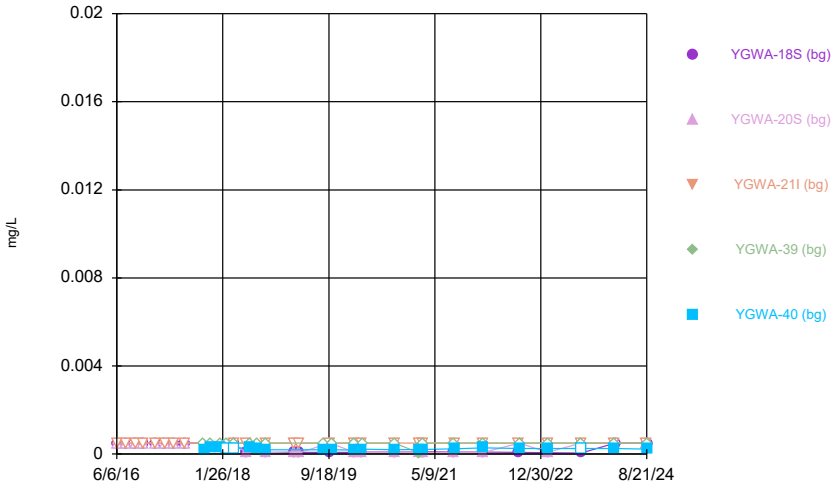

Constituent: Beryllium Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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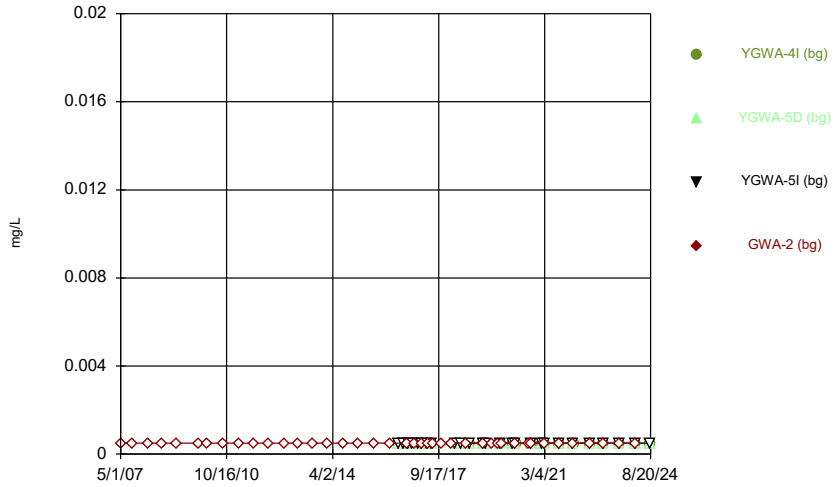

Constituent: Beryllium Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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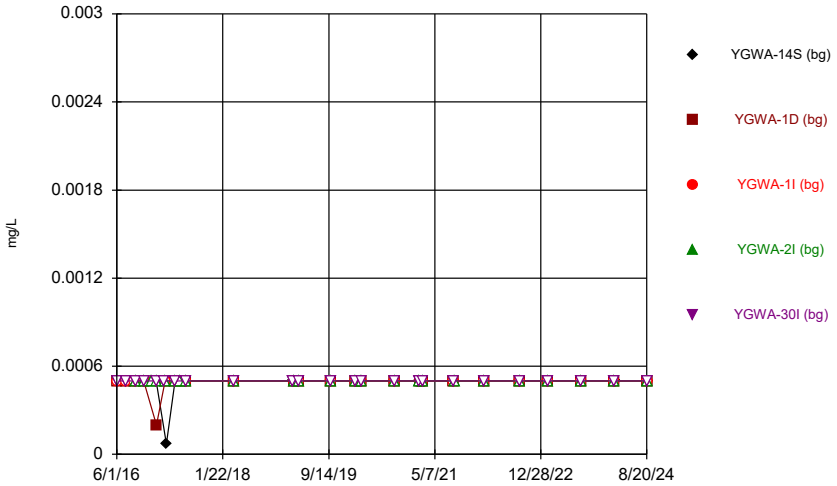
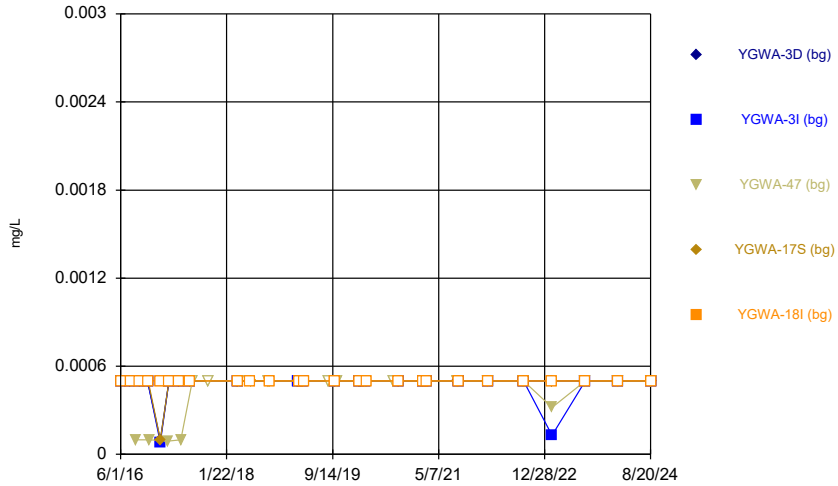


Constituent: Cadmium Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
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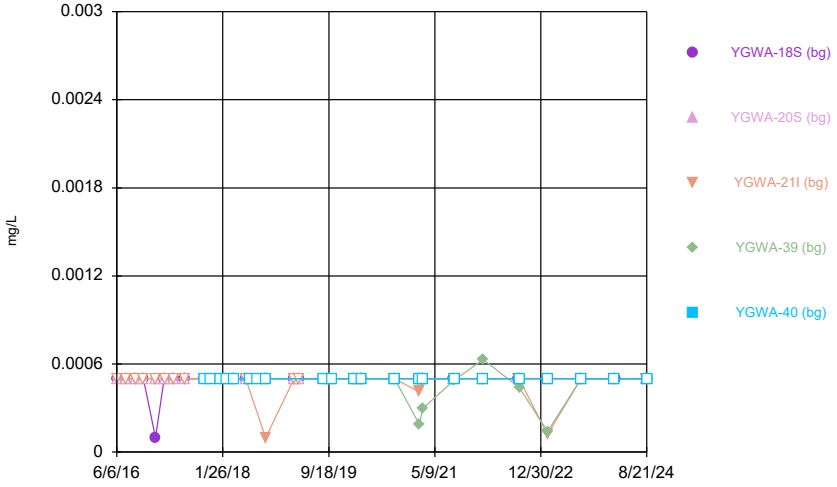

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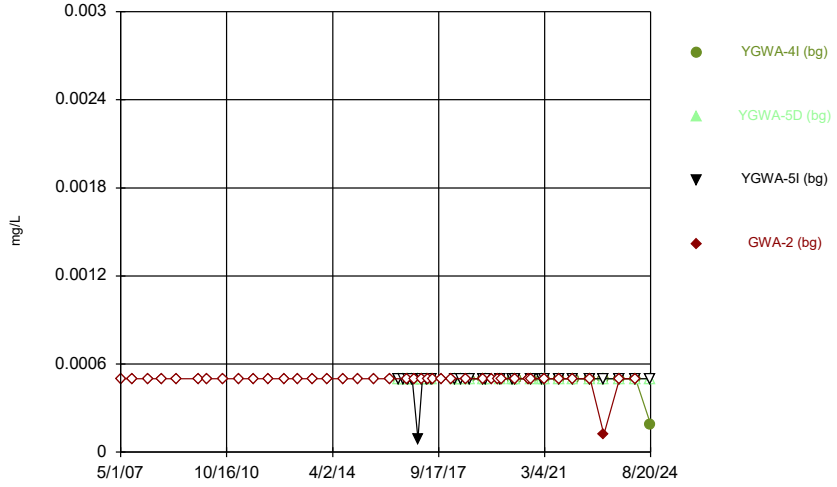
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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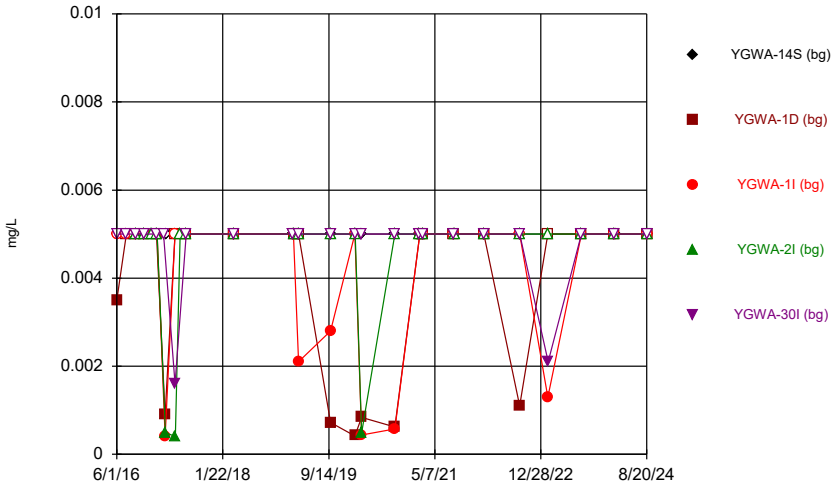

Constituent: Chromium Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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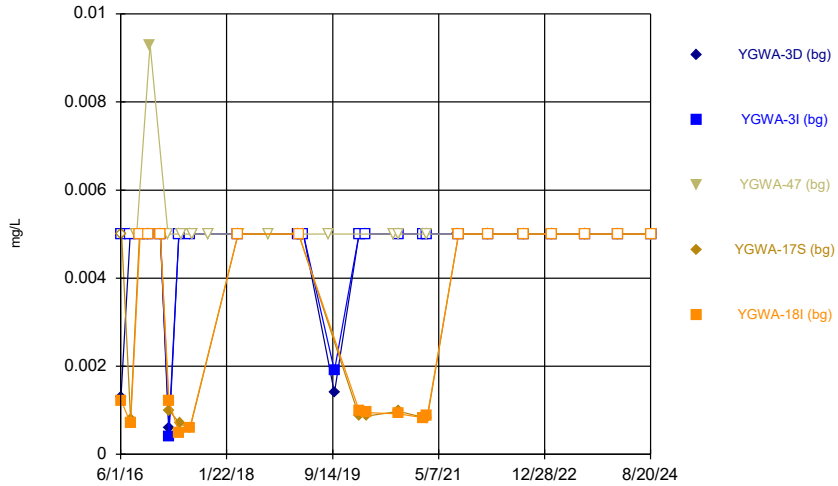

Constituent: Chromium Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
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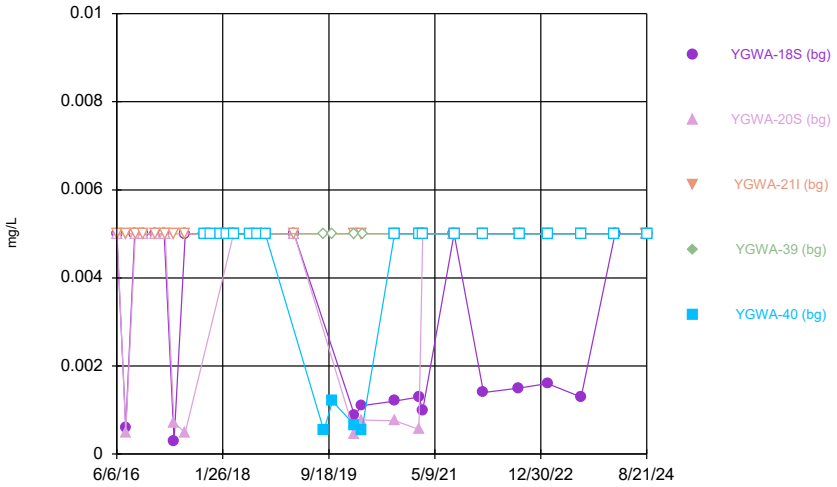

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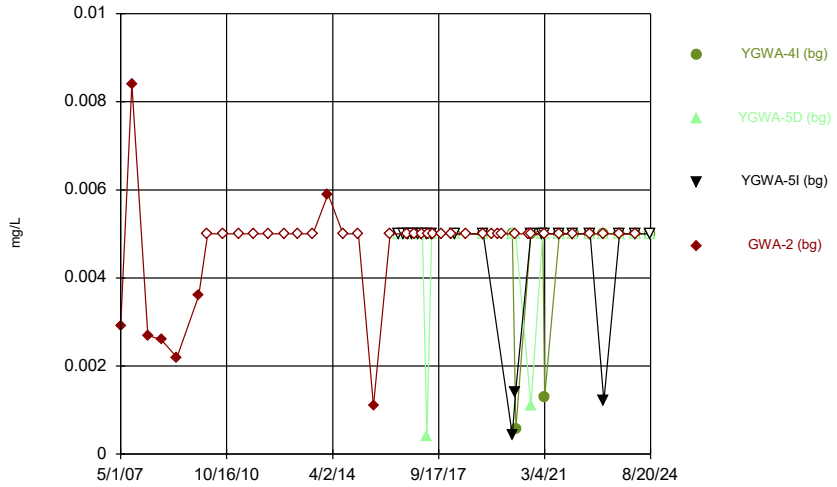
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
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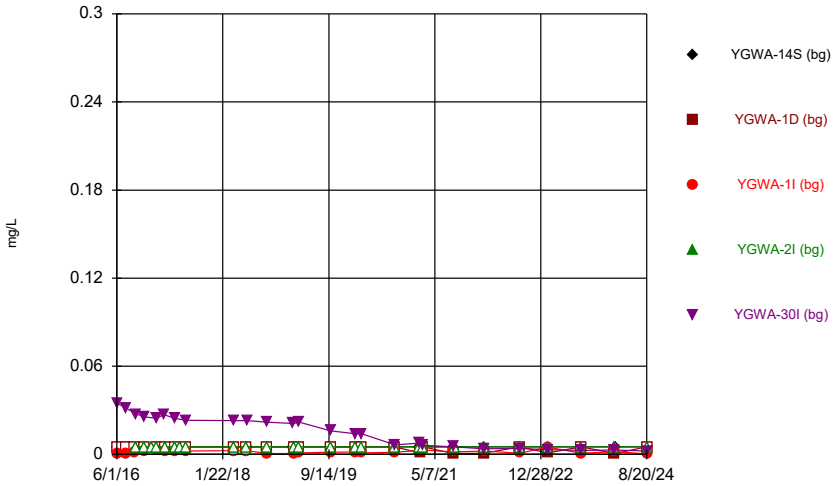

Constituent: Cobalt Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
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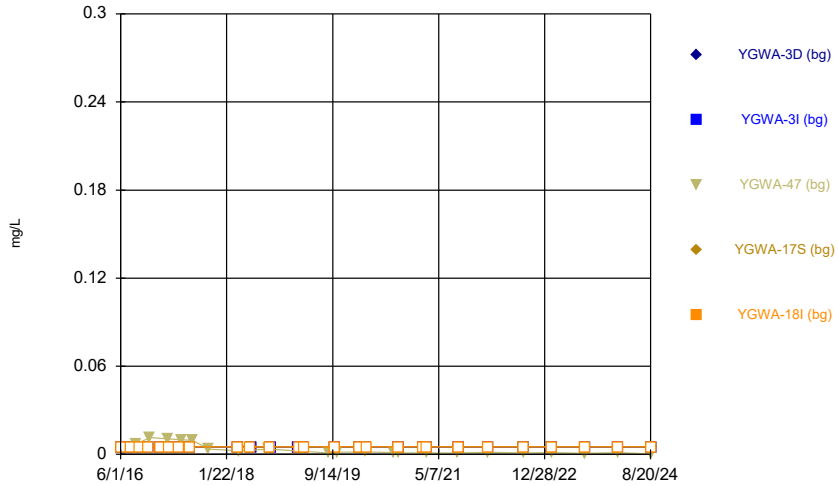

Constituent: Cobalt Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
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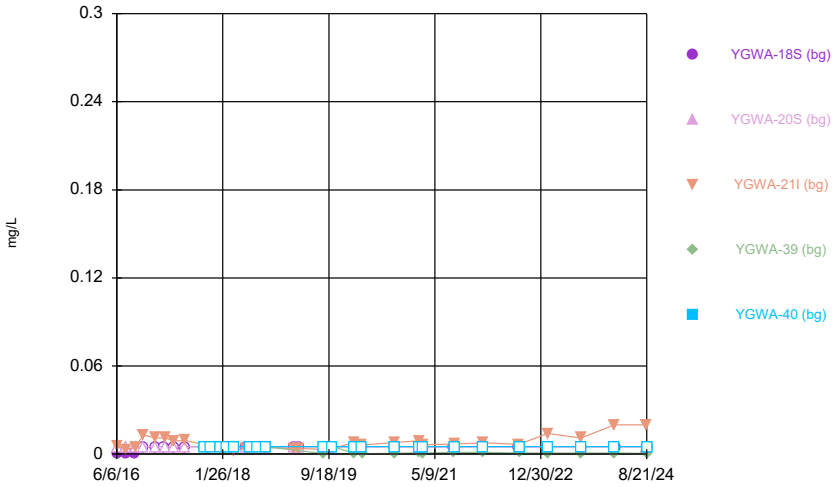
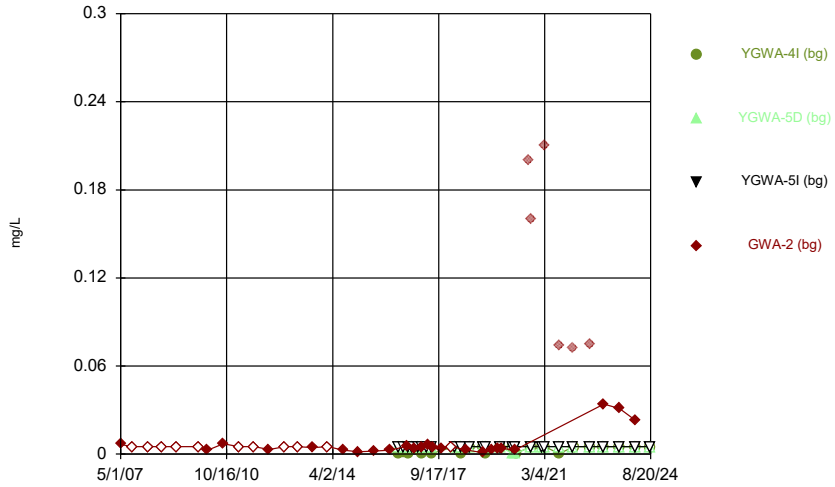


Constituent: Cobalt Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



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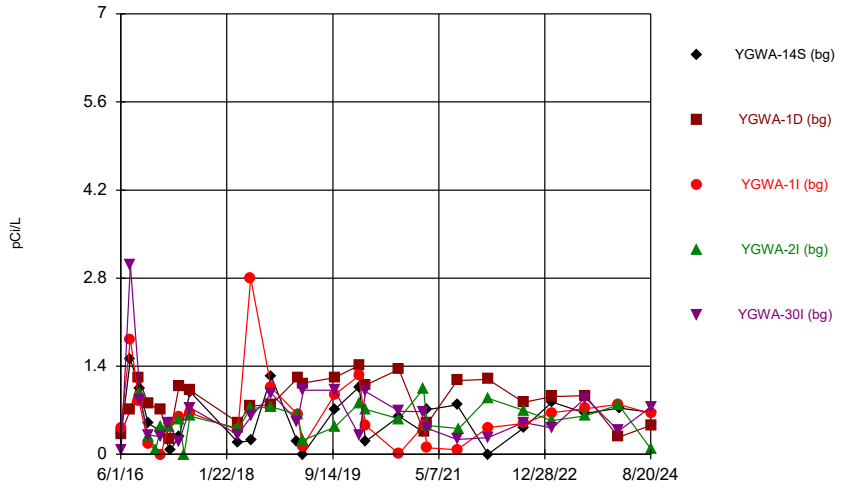
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

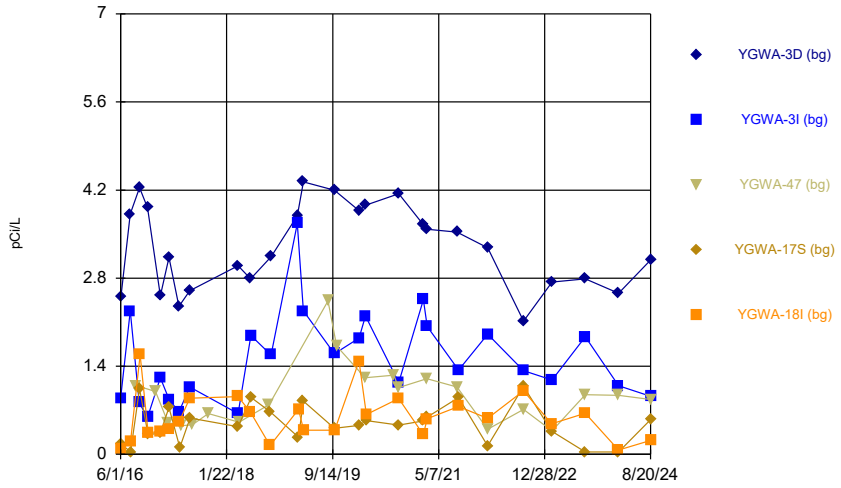
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

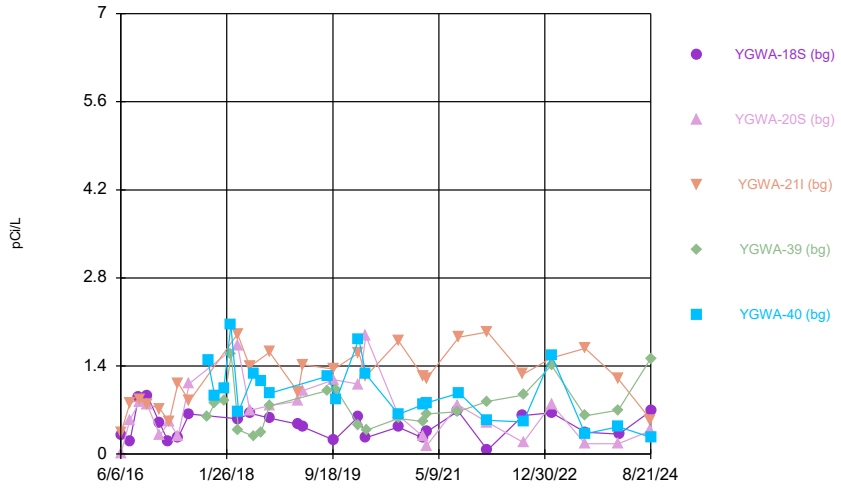
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

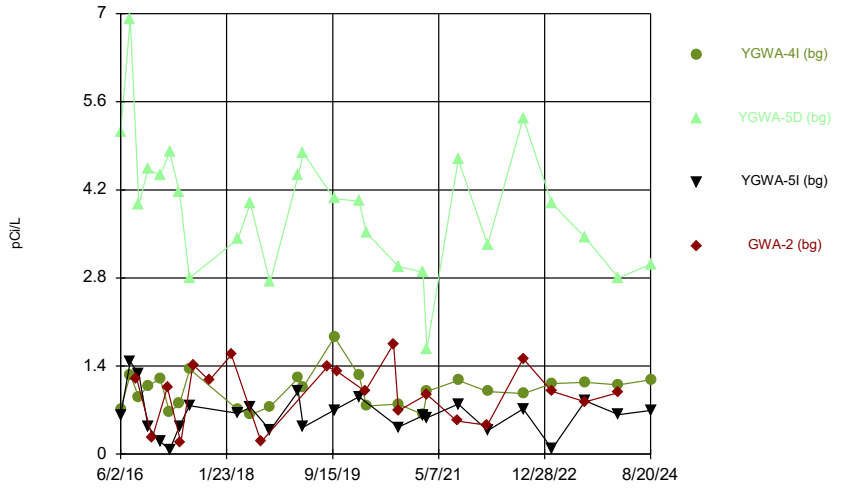
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

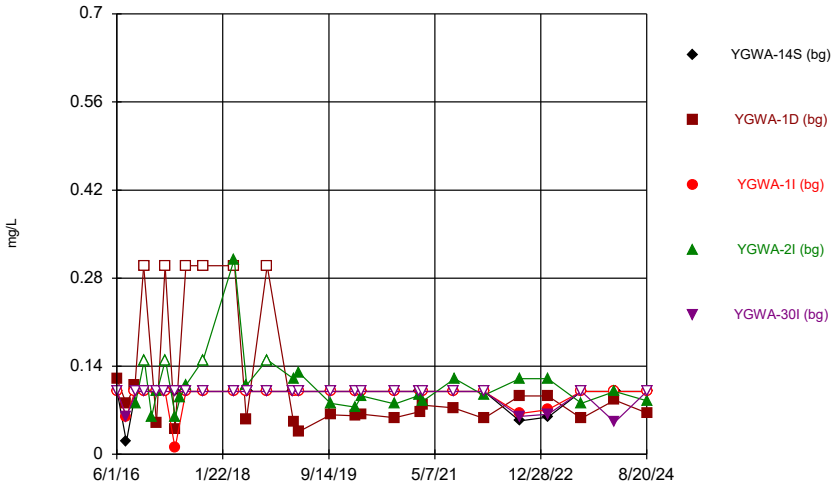
Time Series



Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

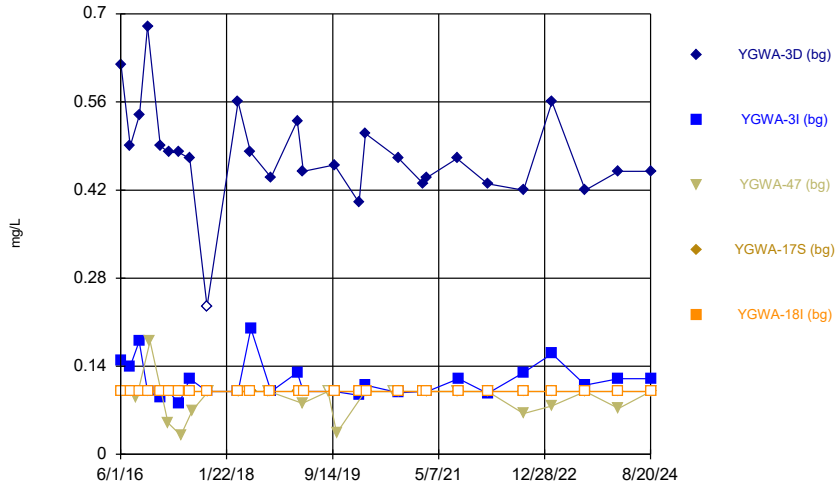
Time Series



Constituent: Fluoride Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Fluoride Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

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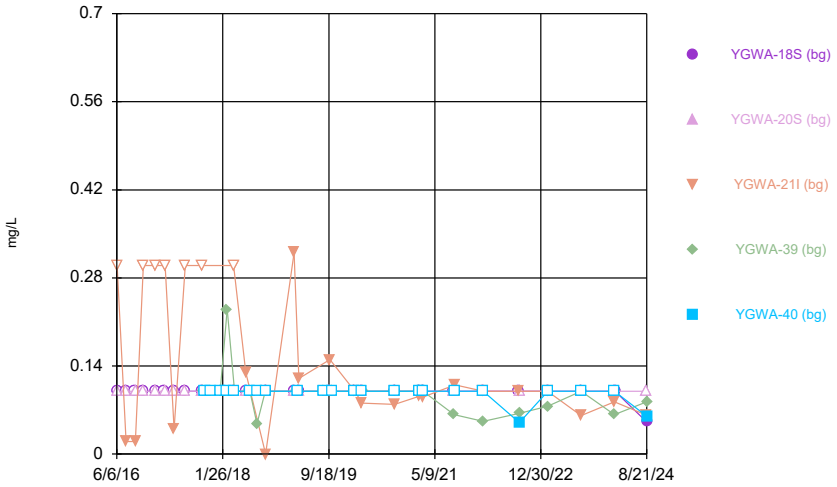
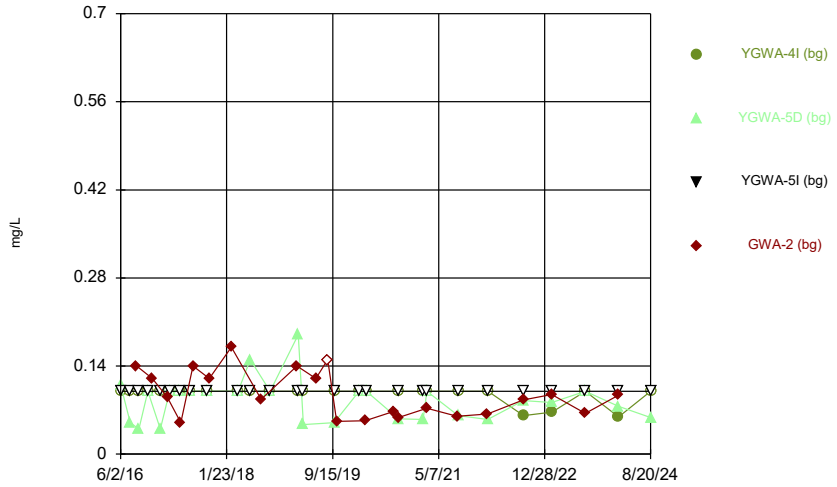


Constituent: Fluoride Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

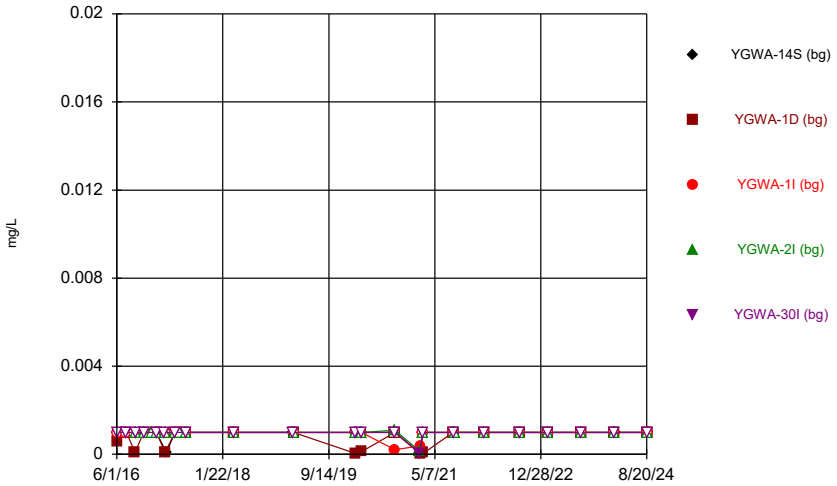
Time Series



Constituent: Fluoride Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

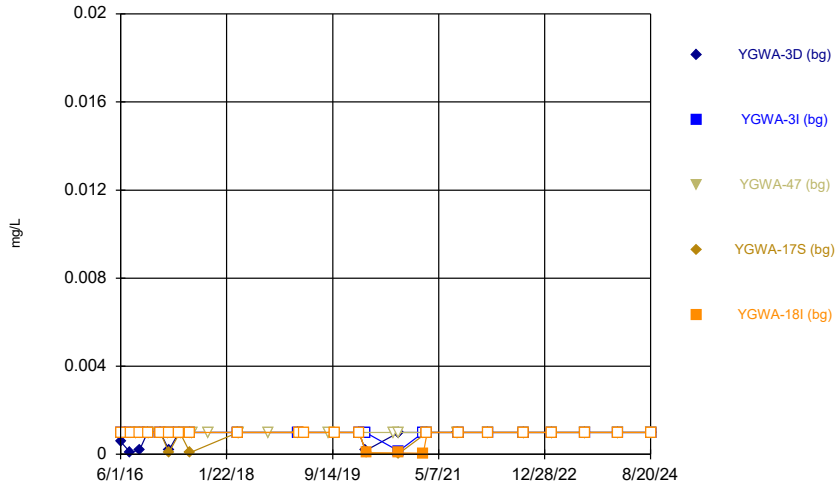
Time Series



Constituent: Lead Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

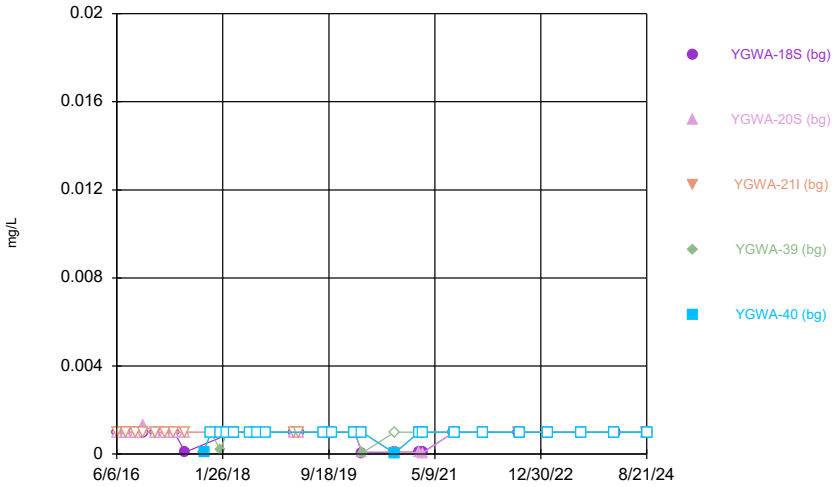
Time Series



Constituent: Lead Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

Time Series



Constituent: Lead Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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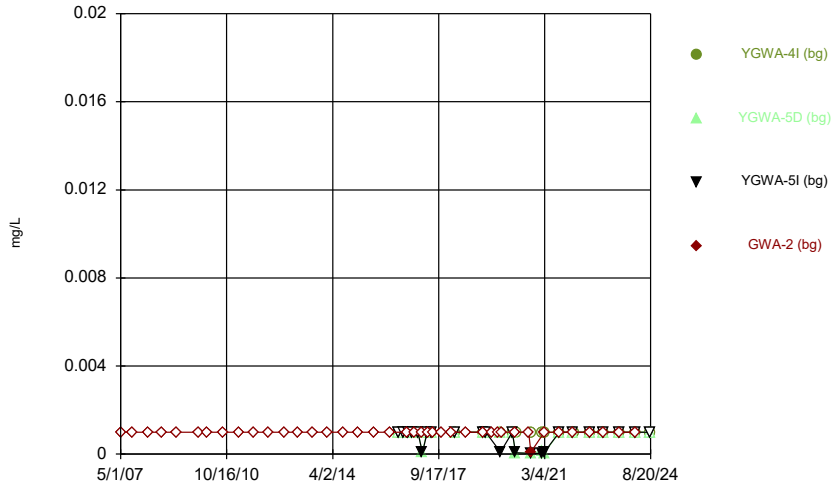
Hollow symbols indicate censored values.

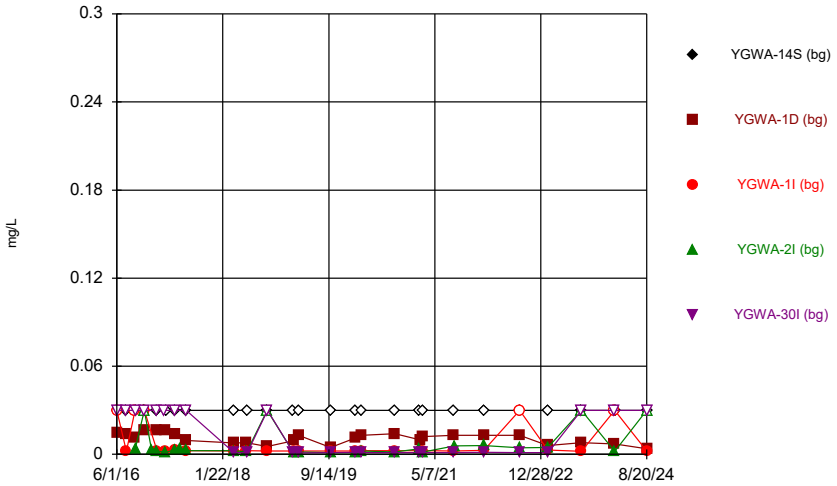
Time Series



Constituent: Lead Analysis Run 11/7/2024 3:43 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

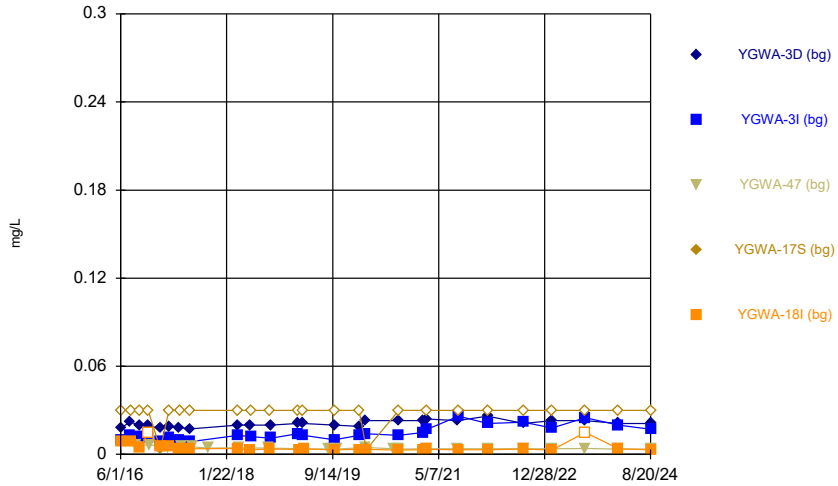
Time Series



Constituent: Lithium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

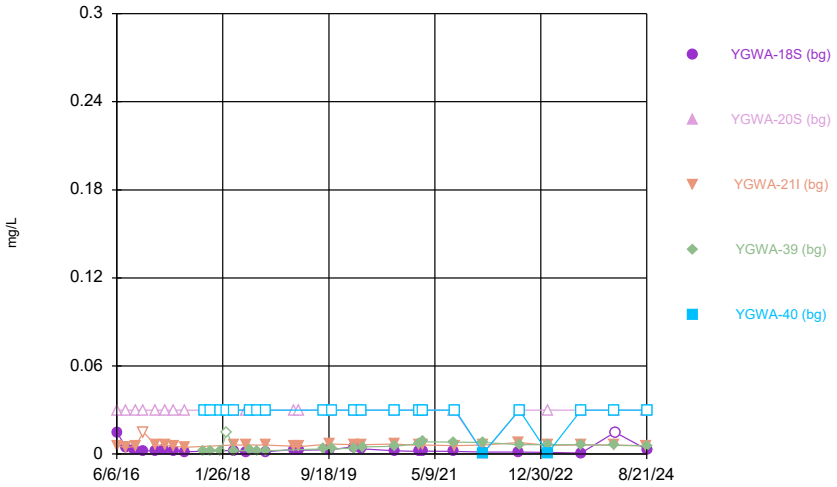
Time Series



Constituent: Lithium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

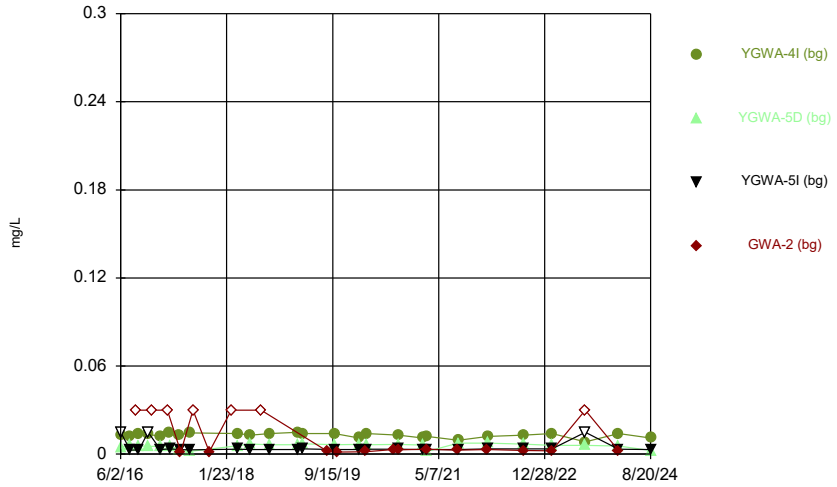
Time Series



Constituent: Lithium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

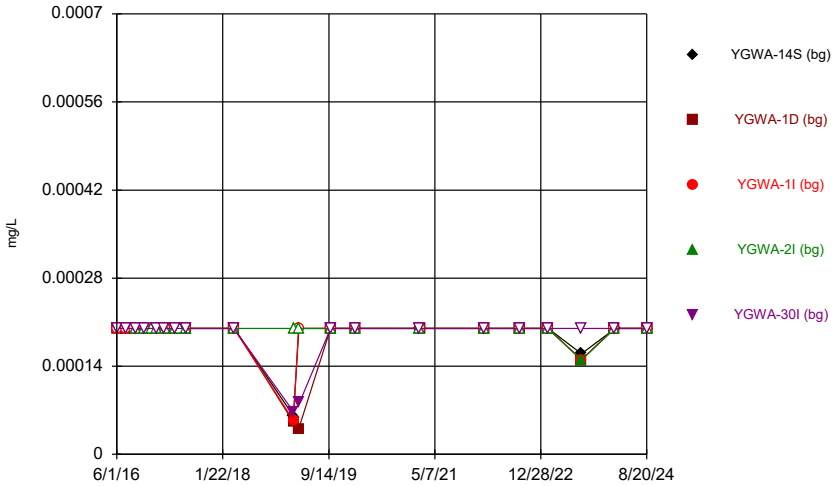
Time Series



Constituent: Lithium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

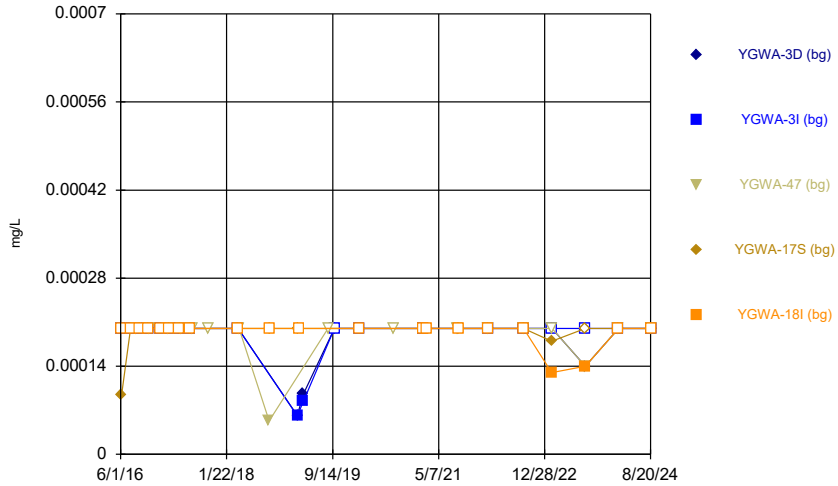
Time Series



Constituent: Mercury Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

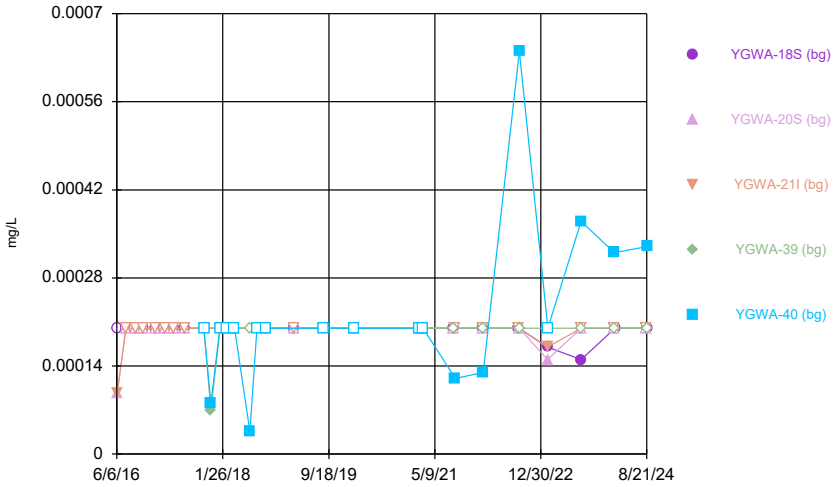
Time Series



Constituent: Mercury Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

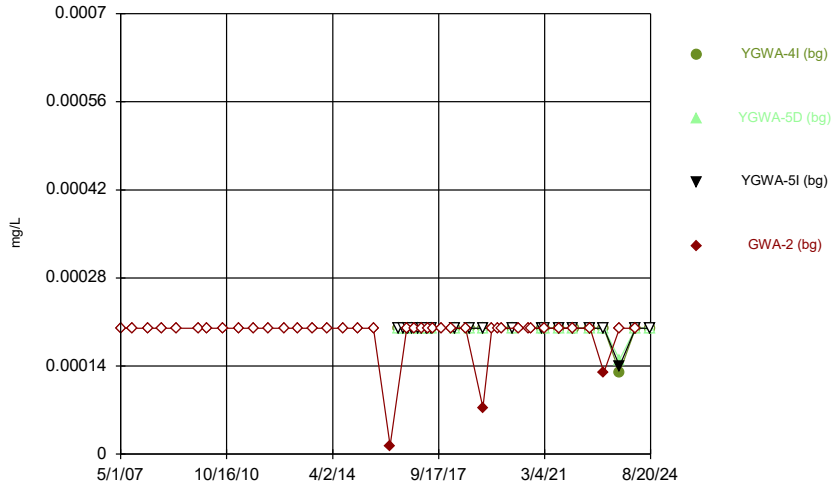
Time Series



Constituent: Mercury Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

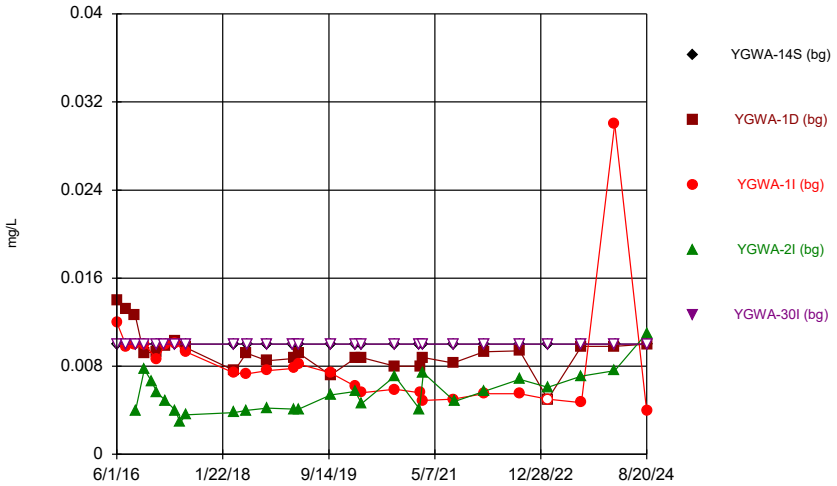
Time Series



Constituent: Mercury Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

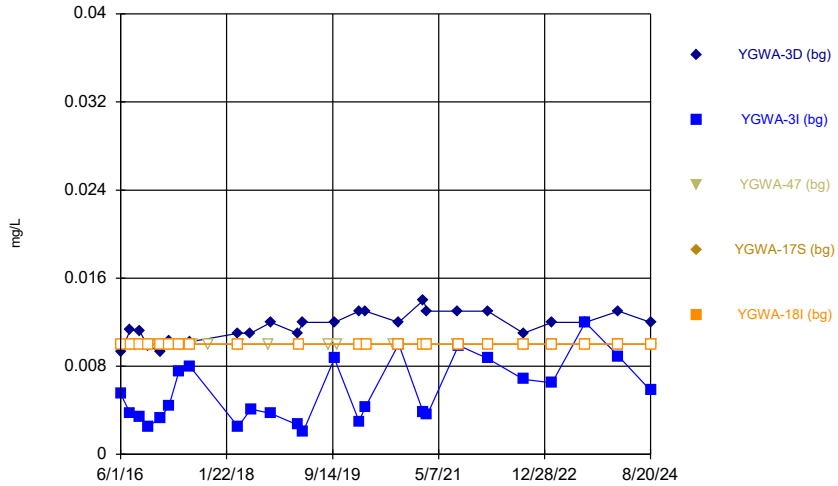
Time Series



Constituent: Molybdenum Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

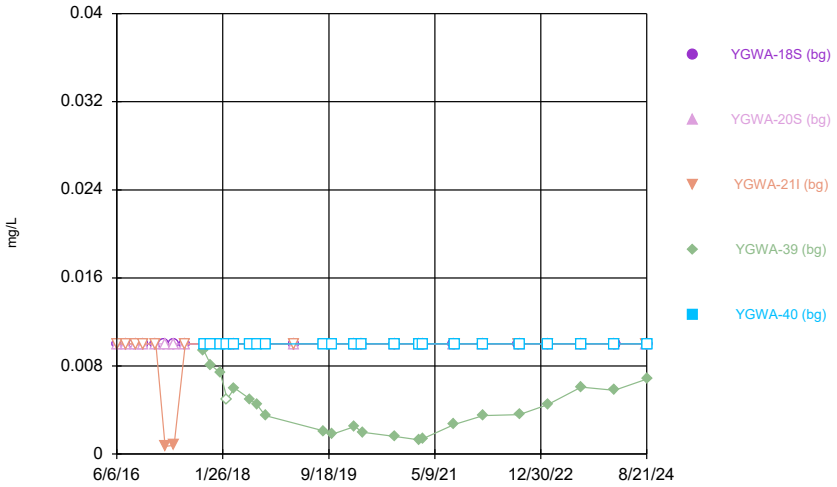
Time Series



Constituent: Molybdenum Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

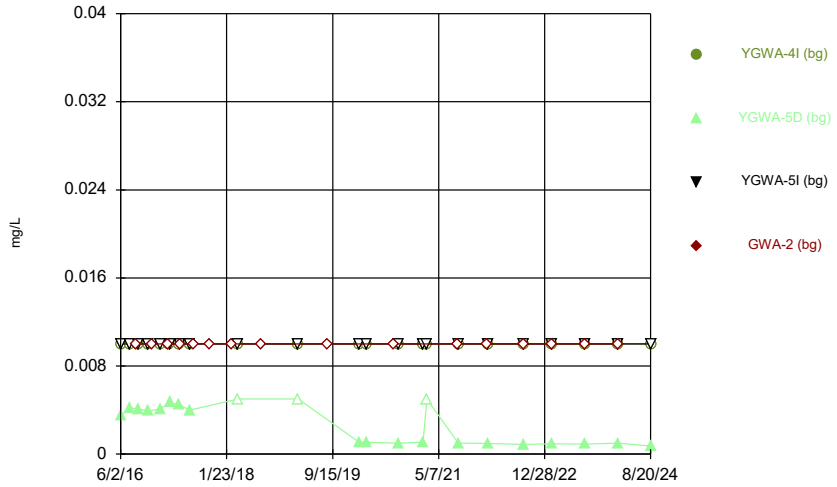
Time Series



Constituent: Molybdenum Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

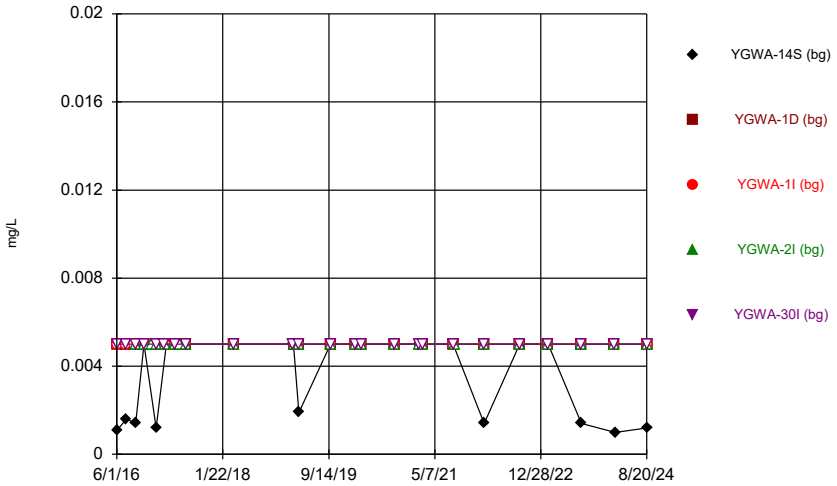
Time Series



Constituent: Molybdenum Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

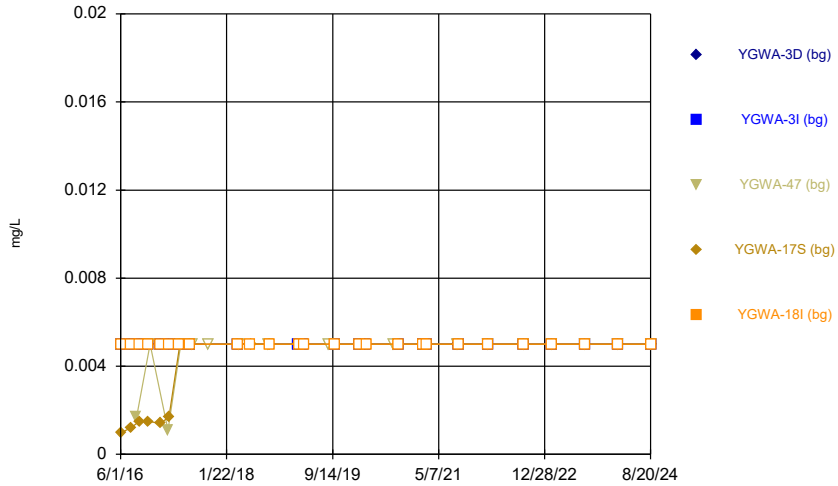
Time Series



Constituent: Selenium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

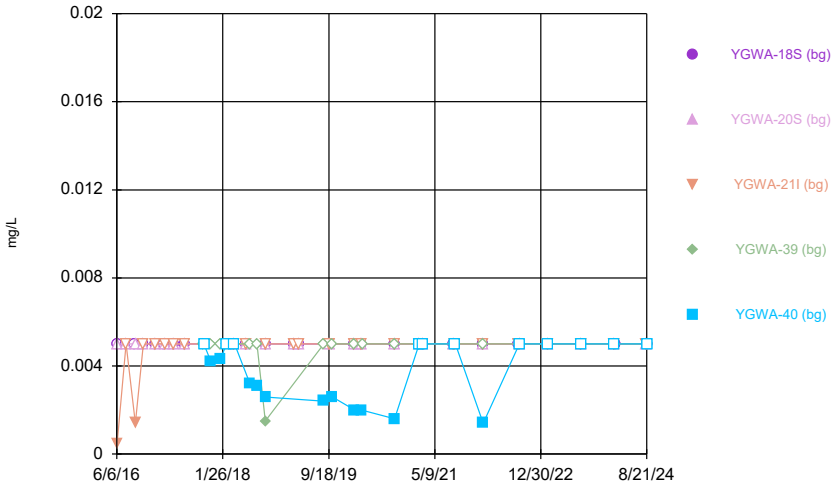
Time Series



Constituent: Selenium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

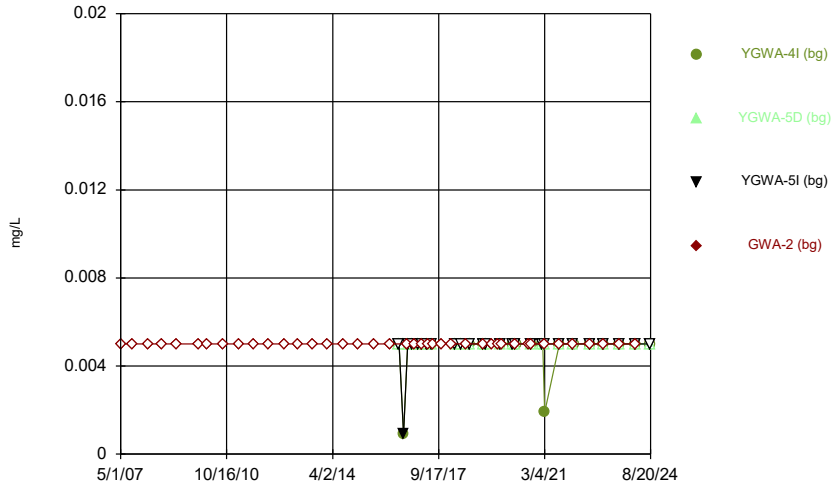
Time Series



Constituent: Selenium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

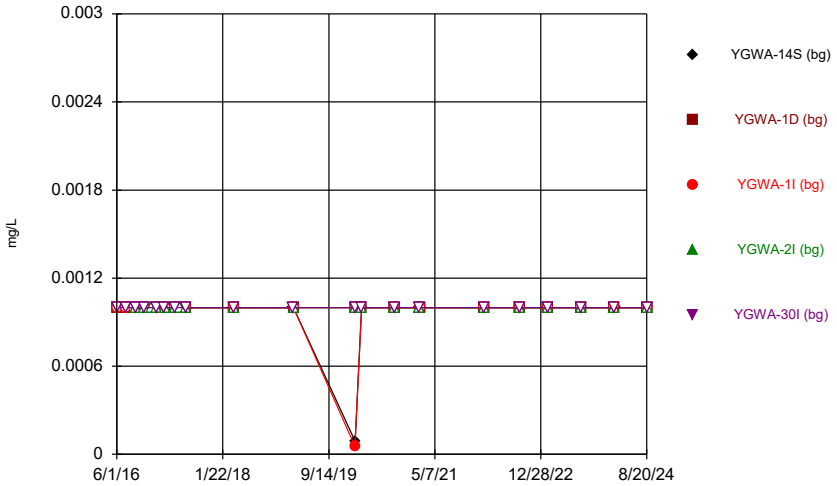
Time Series



Constituent: Selenium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

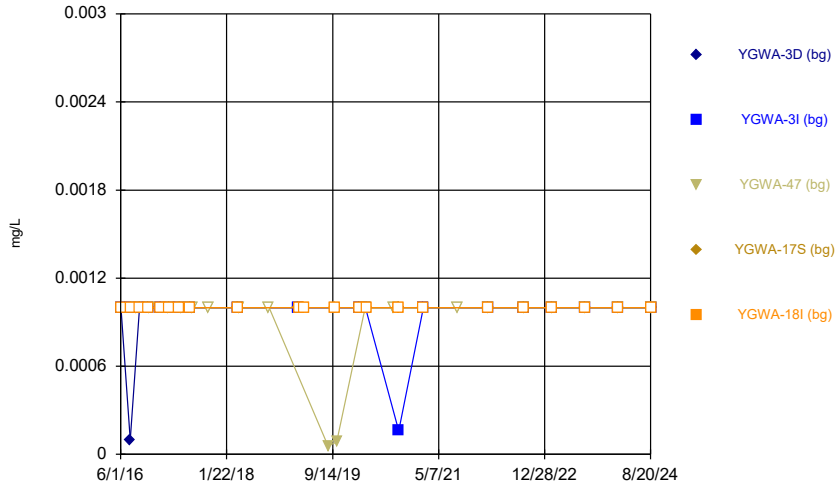
Time Series



Constituent: Thallium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

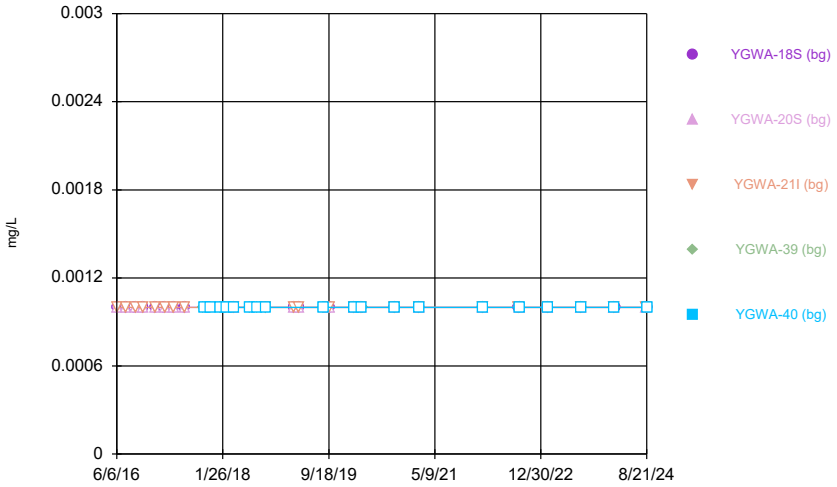
Time Series



Constituent: Thallium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

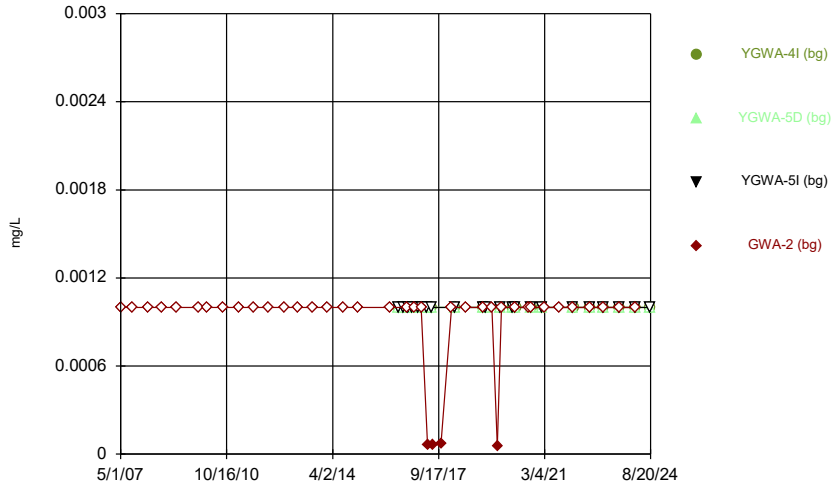
Time Series



Constituent: Thallium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG
Hollow symbols indicate censored values.

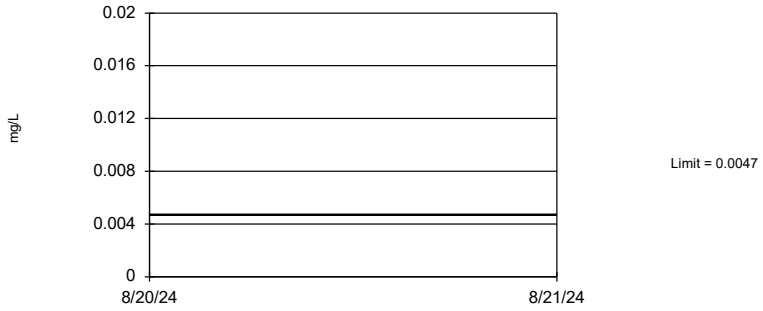
Time Series



Constituent: Thallium Analysis Run 11/7/2024 3:44 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 447 background values. 88.14% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Antimony Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

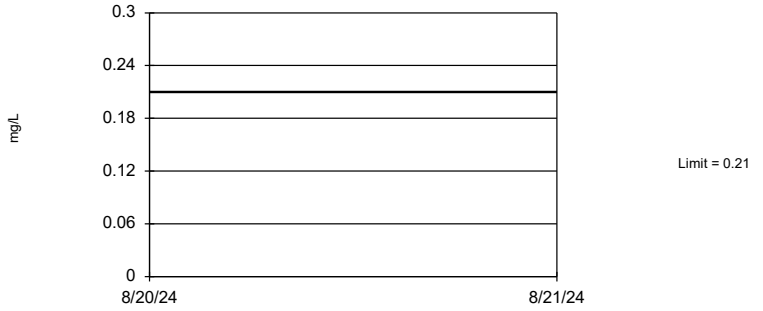
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 495 background values. 75.35% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Arsenic Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



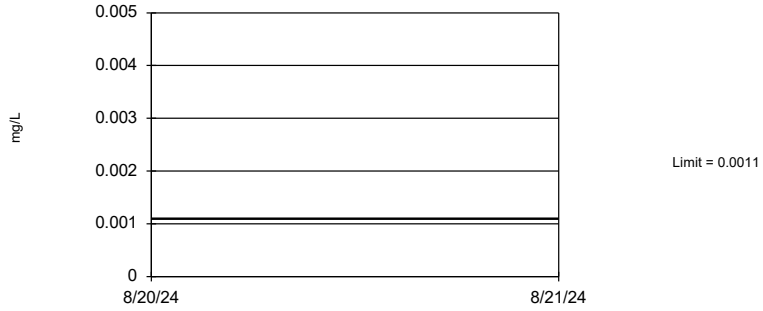
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 495 background values. 2.222% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Barium Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

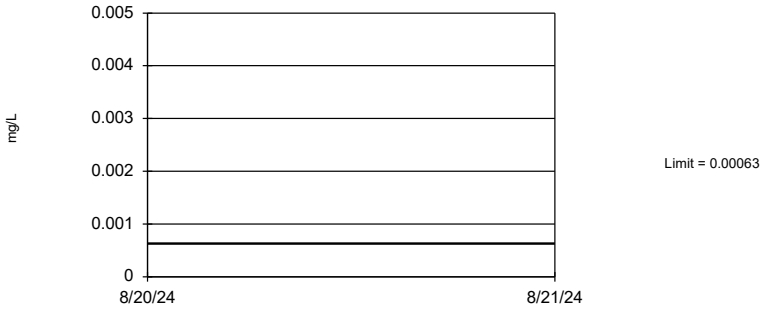


Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 479 background values. 80.17% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Beryllium Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric



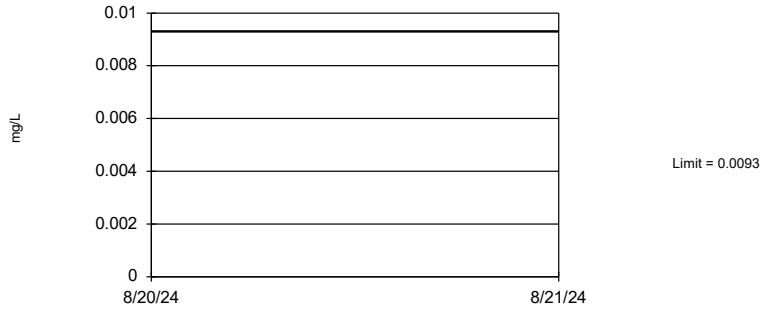
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 479 background values. 94.99% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cadmium Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



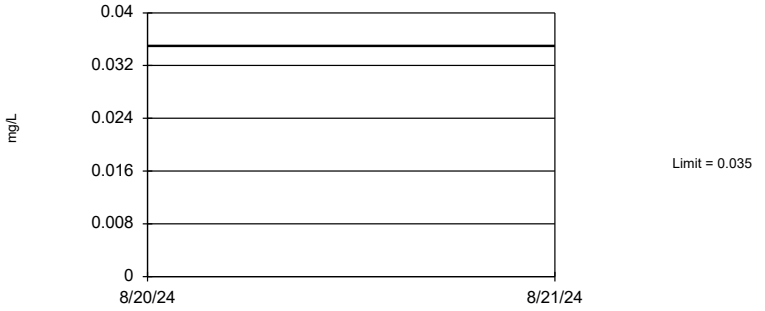
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 447 background values. 82.33% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Chromium Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



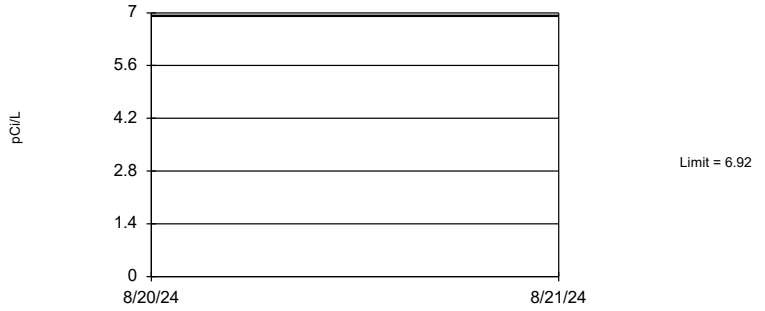
Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 489 background values. 68.92% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Cobalt Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

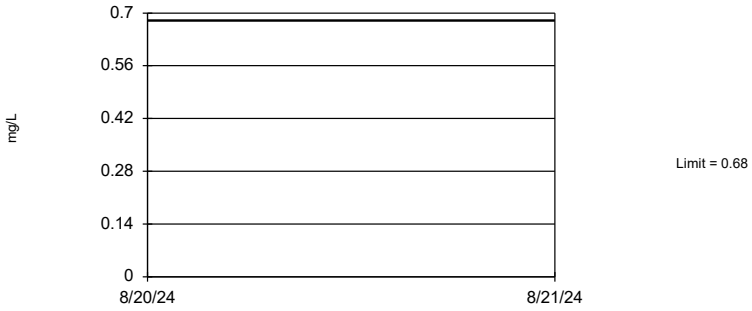


Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 474 background values. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 494 background values. 62.96% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Fluoride Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 449 background values. 87.75% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lead Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric

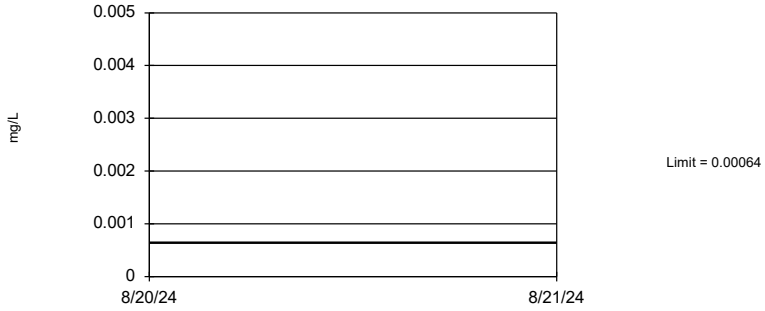
Non-parametric test used in lieu of parametric tolerance limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 474 background values. 27.43% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Lithium Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 403 background values. 89.58% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Mercury Analysis Run 11/7/2024 3:41 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 438 background values. 61.19% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Molybdenum Analysis Run 11/7/2024 3:42 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tolerance Limit

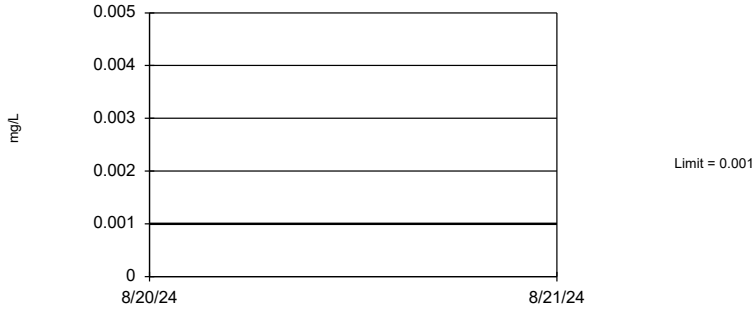
Interwell Non-parametric

Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 477 background values. 92.87% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Selenium Analysis Run 11/7/2024 3:42 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tolerance Limit

Interwell Non-parametric



Non-parametric test used in lieu of parametric tolerance limit because censored data exceeded 50%. Limit is highest of 413 background values. 97.58% NDs. 99.8% coverage at alpha=0.01; 99.8% coverage at alpha=0.05; 99.8% coverage at alpha=0.5. Report alpha < 0.0001.

Constituent: Thallium Analysis Run 11/7/2024 3:42 PM View: Appendix IV - UTLs
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE H.

YATES ASH POND 2 GWPS				
Constituent Name	**MCL**	**CCR-Rule Specified**	**Background Limit**	**GWPS**
Antimony, Total (mg/L)	0.006		0.0047	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.21	2
Beryllium, Total (mg/L)	0.004		0.0011	0.004
Cadmium, Total (mg/L)	0.005		0.00063	0.005
Chromium, Total (mg/L)	0.1		0.0093	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.92	6.92
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)		0.015	0.0013	0.015
Lithium, Total (mg/L)		0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.00064	0.002
Molybdenum, Total (mg/L)		0.1	0.03	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 Interval Summary Table - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/8/2024, 1:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.001	0.006	No	22	0.002687	0.0008107	86.36	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	22	0.002877	0.0003975	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.0014	0.006	No	22	0.002806	0.0006495	90.91	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	22	0.002877	0.0005756	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-28I	0.003	0.0023	0.006	No	22	0.002968	0.0001492	95.45	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29IB	0.003	0.0013	0.006	No	22	0.002923	0.0003624	95.45	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26I	0.005	0.0028	0.01	No	26	0.004815	0.0006546	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.0032	0.01	No	26	0.004823	0.0006408	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0009	0.01	No	26	0.003632	0.00202	65.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27S	0.005	0.0019	0.01	No	26	0.004881	0.000608	96.15	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.0021	0.01	No	26	0.004888	0.0005687	96.15	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00075	0.01	No	26	0.003643	0.002015	65.38	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-29IB	0.005	0.0033	0.01	No	26	0.004935	0.0003334	96.15	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06502	0.06137	2	No	26	0.0632	0.003752	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02821	0.02609	2	No	26	0.02715	0.002179	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.07354	0.0661	2	No	26	0.06982	0.00763	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27S	0.09908	0.08018	2	No	26	0.08755	0.02182	0	None	x^2	0.01	Param.
Barium (mg/L)	YGWC-28I	0.08722	0.07794	2	No	26	0.08258	0.00952	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2194	0.2003	2	No	26	0.205	0.0338	0	None	x^4	0.01	Param.
Barium (mg/L)	YGWC-29IB	0.0781	0.059	2	No	26	0.07441	0.03027	0	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-26S	0.0001273	0.00009142	0.004	No	24	0.0002126	0.0001567	20.83	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27I	0.0001505	0.0001065	0.004	No	24	0.0002155	0.0001383	16.67	Kaplan-Meier	ln(x)	0.01	Param.
Beryllium (mg/L)	YGWC-27S	0.0005	0.00011	0.004	No	24	0.0004657	0.0001165	91.67	Kaplan-Meier	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.00013	0.005	No	24	0.0002725	0.0001758	20.83	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.00048	0.005	No	24	0.0004992	0.000004082	95.83	None	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29IB	0.00028	0.00016	0.005	No	24	0.0003312	0.0003599	12.5	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.005	0.0008	0.1	No	24	0.003727	0.002019	66.67	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.005	0.0012	0.1	No	24	0.003083	0.001827	37.5	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-27I	0.012	0.005	0.1	No	24	0.005292	0.001429	95.83	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.0041	0.1	No	24	0.004727	0.002668	75	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	24	0.004434	0.00153	87.5	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0034	0.1	No	24	0.004375	0.00152	83.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29IB	0.005	0.0005	0.1	No	24	0.004812	0.0009186	95.83	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002395	0.00176	0.035	No	26	0.002078	0.0006518	3.846	None	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01368	0.004193	0.035	No	26	0.016	0.02327	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.002383	0.002008	0.035	No	26	0.002165	0.0004176	3.846	None	x^2	0.01	Param.
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	26	0.004824	0.0008982	96.15	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0011	0.00085	0.035	No	26	0.001068	0.0004477	7.692	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29IB	0.0053	0.0027	0.035	No	26	0.004202	0.001907	65.38	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	0.9014	0.4691	6.92	No	25	0.7354	0.4774	4	None	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.8022	0.5373	6.92	No	26	0.6698	0.2718	3.846	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	3.715	2.64	6.92	No	26	3.177	1.103	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.944	0.5914	6.92	No	26	0.7677	0.3618	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.798	0.471	6.92	No	26	0.6345	0.3354	3.846	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.8875	0.5445	6.92	No	26	0.716	0.3518	3.846	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29IB	1.045	0.6696	6.92	No	26	0.8572	0.3849	3.846	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No	27	0.08326	0.01962	37.04	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.076	4	No	27	0.1211	0.08779	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.081	4	No	27	0.1806	0.1112	44.44	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.1701	0.09027	4	No	27	0.1403	0.09932	14.81	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.29	0.078	4	No	27	0.1561	0.1004	18.52	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2312	0.1572	4	No	27	0.2	0.08639	7.407	None	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-29IB	0.17	0.059	4	No	27	0.1359	0.1025	25.93	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.001	0.000059	0.015	No	22	0.0009141	0.0002781	90.91	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.001	0.0001	0.015	No	22	0.0007886	0.000399	77.27	None	No	0.01	NP (NDs)

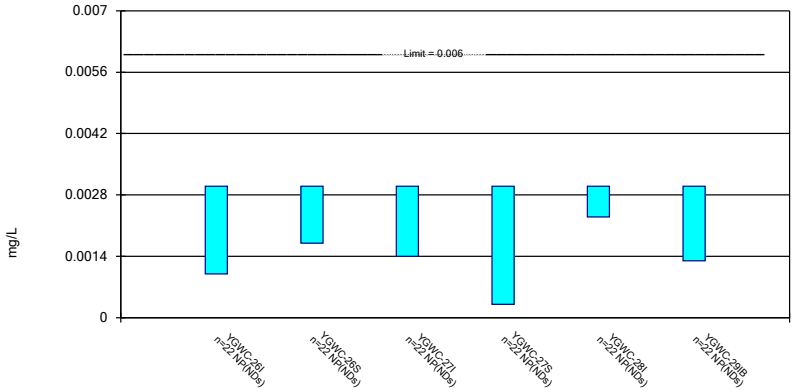
Confidence Interval Summary Table - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/8/2024, 1:59 PM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Lead (mg/L)	YGWC-27S	0.001	0.00096	0.015	No	22	0.0008362	0.0003269	72.73	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.001	0.000075	0.015	No	22	0.000787	0.000402	77.27	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29IB	0.001	0.00016	0.015	No	22	0.0008782	0.000314	86.36	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007367	0.006764	0.04	No	26	0.007065	0.0006183	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.00939	0.007557	0.04	No	26	0.008577	0.001995	0	None	x^(1/3)	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.03	0.0013	0.04	No	26	0.02777	0.007866	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.006984	0.006501	0.04	No	26	0.006742	0.0004957	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.03	0.0053	0.04	No	26	0.02905	0.004844	96.15	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29IB	0.0066	0.0052	0.04	No	26	0.006688	0.002618	3.846	None	No	0.01	NP (normality)
Mercury (mg/L)	YGWC-26I	0.0002	0.000051	0.002	No	20	0.0001851	0.00004586	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0002	0.000066	0.002	No	20	0.0001857	0.00004395	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0002	0.000054	0.002	No	20	0.0001849	0.00004635	90	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0002	0.00019	0.002	No	20	0.000184	0.00004761	85	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0002	0.000048	0.002	No	20	0.0001924	0.00003399	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0002	0.000052	0.002	No	20	0.0001926	0.00003309	95	None	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29IB	0.0002	0.000047	0.002	No	20	0.0001843	0.00004834	90	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0015	0.1	No	26	0.004888	0.004157	38.46	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0012	0.1	No	26	0.004296	0.004235	34.62	None	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00082	0.1	No	26	0.006793	0.004496	65.38	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29IB	0.01	0.00099	0.1	No	26	0.009301	0.00247	92.31	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0041	0.0019	0.05	No	24	0.002921	0.001194	8.333	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0014	0.05	No	24	0.004346	0.001506	83.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	24	0.004842	0.0007757	95.83	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	24	0.004833	0.0008165	95.83	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	20	0.0009056	0.0002906	90	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.00011	0.002	No	20	0.0007315	0.0004208	70	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-29IB	0.001	0.00021	0.002	No	20	0.0009605	0.0001766	95	None	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Antimony Analysis Run 11/7/2024 3:49 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

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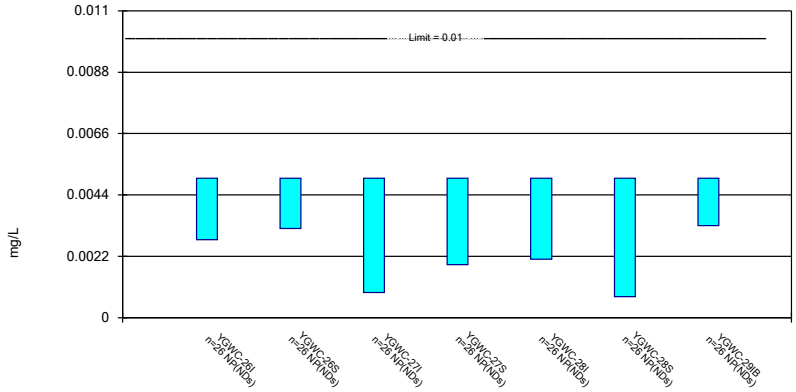
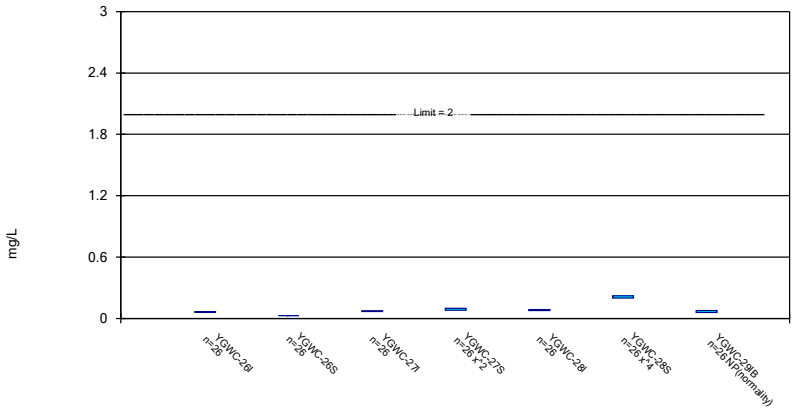


Constituent: Arsenic Analysis Run 11/7/2024 3:49 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

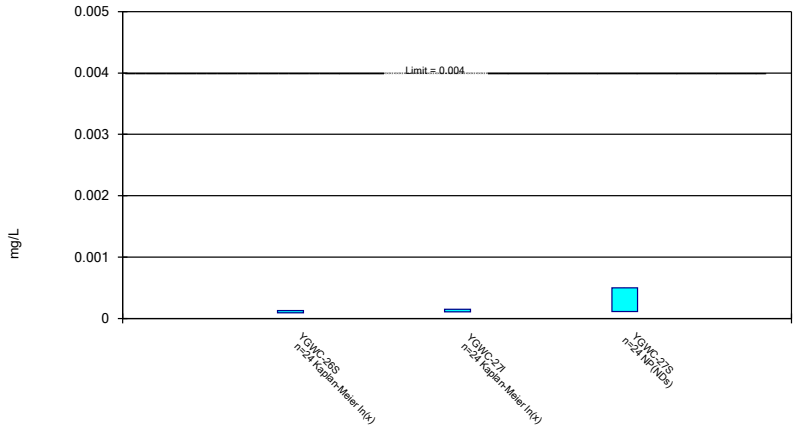
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/7/2024 3:49 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

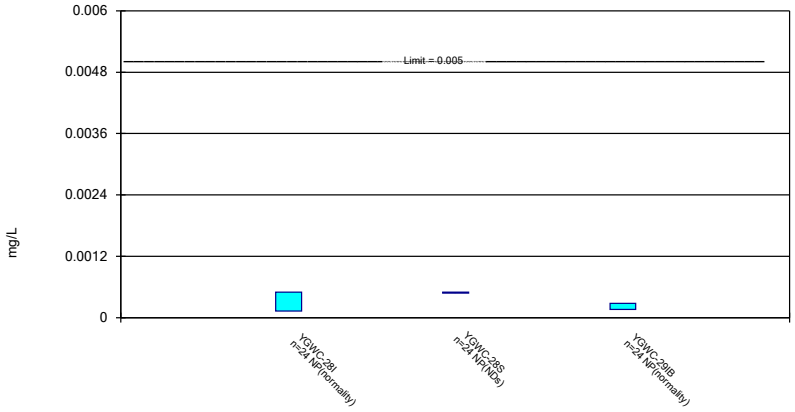
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Beryllium Analysis Run 11/7/2024 3:49 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 11/7/2024 3:49 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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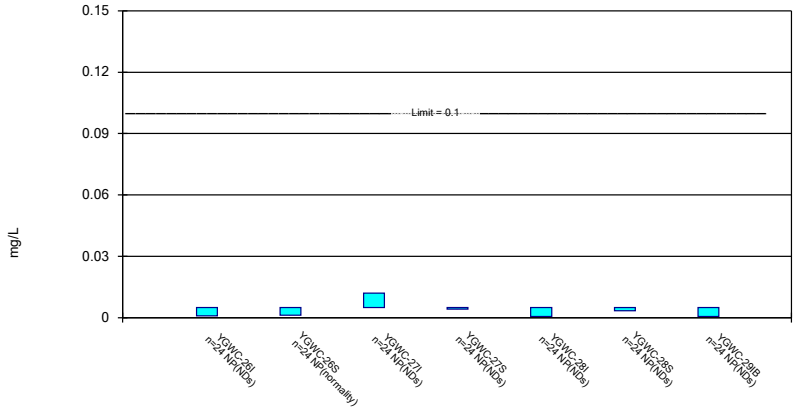
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/7/2024 3:49 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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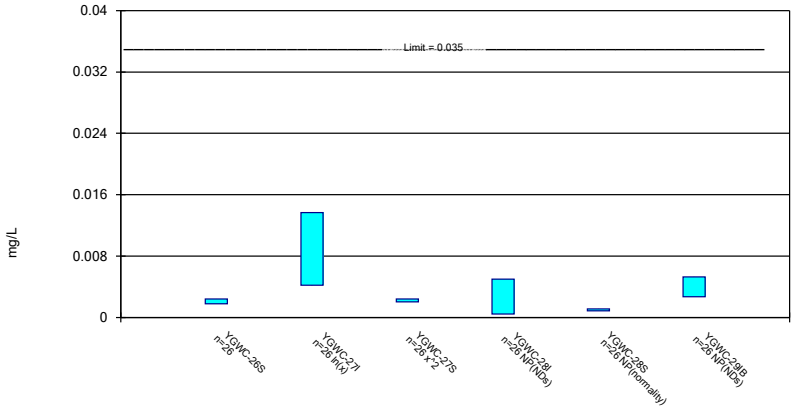
Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/7/2024 3:49 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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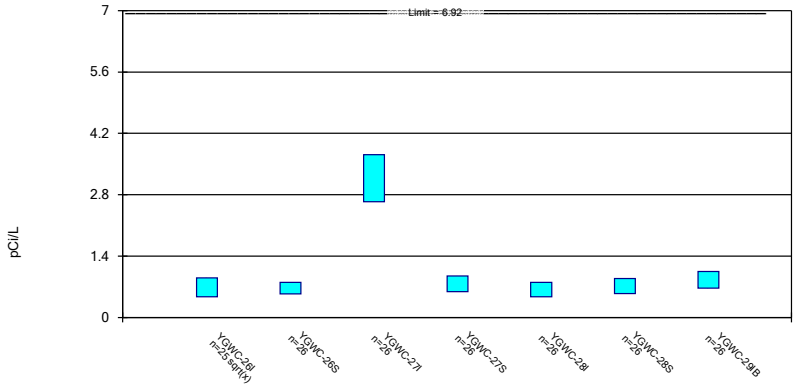
Parametric Confidence Interval

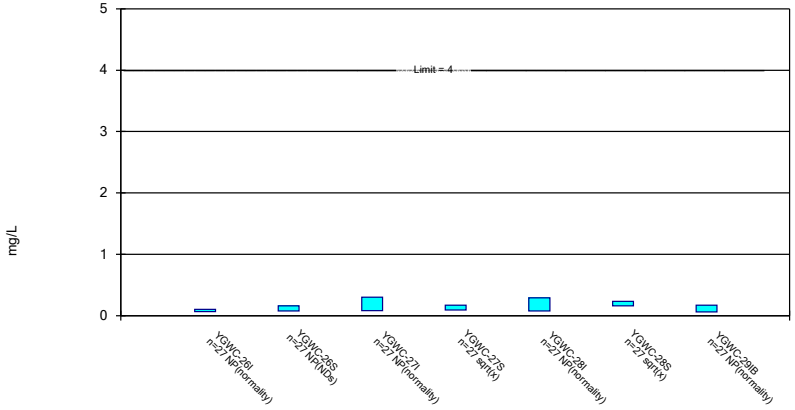
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/7/2024 3:50 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

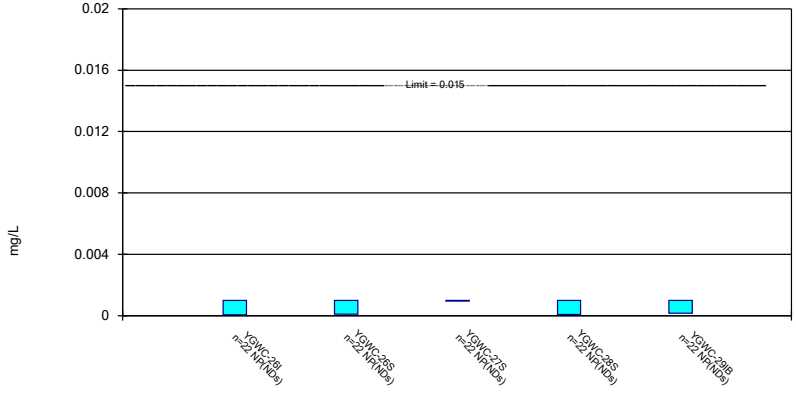


Constituent: Fluoride Analysis Run 11/7/2024 3:50 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

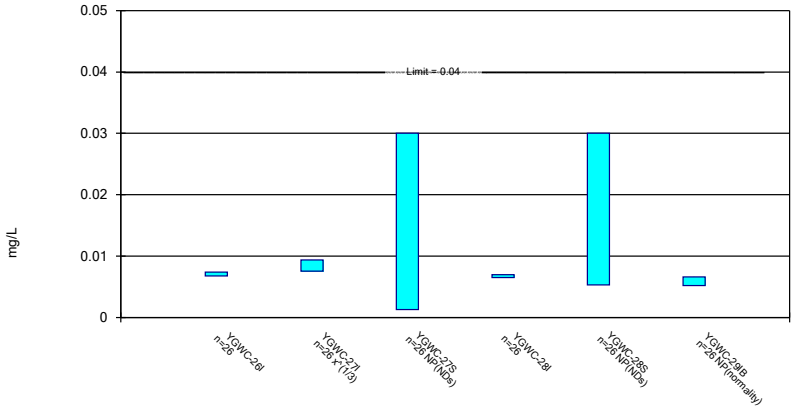


Constituent: Lead Analysis Run 11/7/2024 3:50 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.

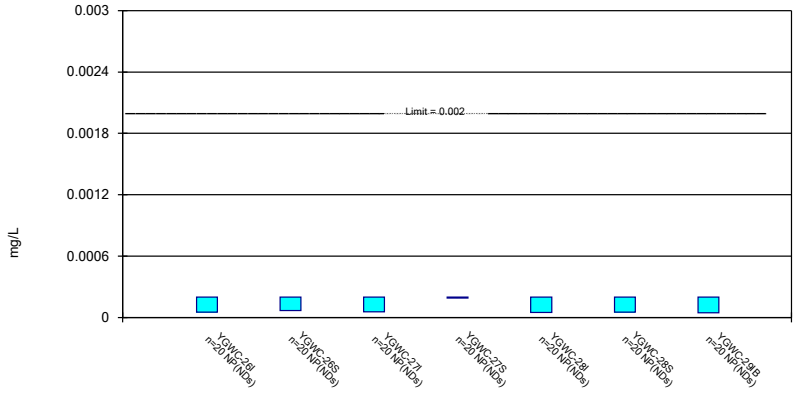


Constituent: Lithium Analysis Run 11/7/2024 3:50 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.

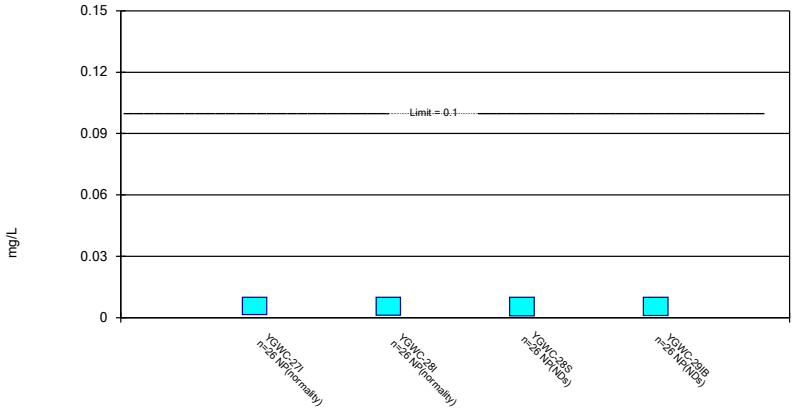


Constituent: Mercury Analysis Run 11/7/2024 3:50 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 11/7/2024 3:50 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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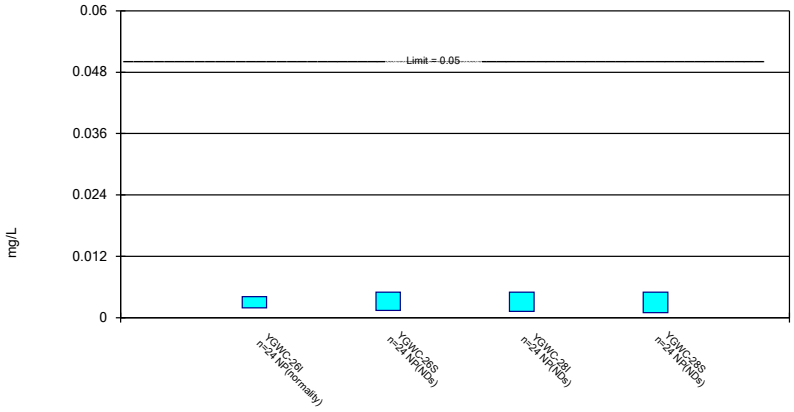
Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



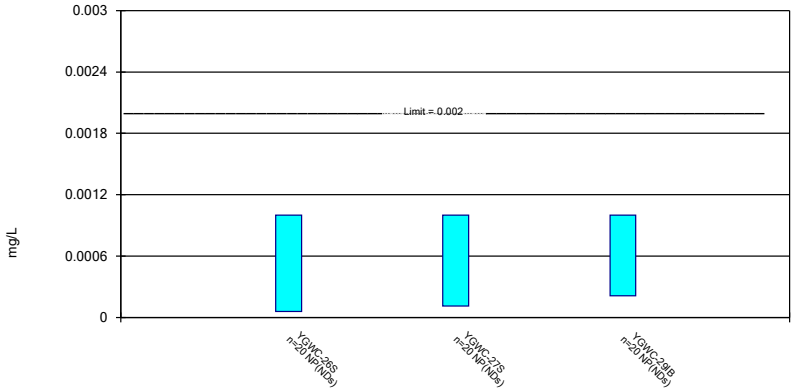
Constituent: Selenium Analysis Run 11/7/2024 3:50 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sanitas™ v.10.0.23a Software licensed to Groundwater Stats Consulting. UG

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/7/2024 3:50 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Antimony (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-29IB
6/8/2016	<0.003	<0.003	<0.003	<0.003		
6/9/2016					<0.003	<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003		
8/2/2016					<0.003	<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003		
9/21/2016					<0.003	<0.003
11/7/2016	<0.003	<0.003	<0.003	<0.003		<0.003
11/8/2016					<0.003	
1/18/2017	<0.003	<0.003	<0.003		<0.003	
1/19/2017				<0.003		<0.003
2/21/2017	<0.003	<0.003				
2/22/2017				<0.003	<0.003	<0.003
2/23/2017			<0.003			
5/3/2017		<0.003				
5/5/2017					<0.003	
5/8/2017	<0.003		<0.003	<0.003		<0.003
6/30/2017			<0.003	<0.003		
7/5/2017					<0.003	<0.003
7/10/2017	<0.003	<0.003				
3/29/2018			<0.003	<0.003		<0.003
3/30/2018	<0.003	<0.003			<0.003	
2/27/2019	<0.003	<0.003	<0.003	<0.003	<0.003	<0.003
2/13/2020	0.00052 (J)	0.0016 (J)	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.0017 (J)			<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)		<0.003
9/24/2020	<0.003	<0.003	<0.003	<0.003	<0.003	0.0013 (J)
2/10/2021	<0.003	<0.003	<0.003	<0.003		
2/11/2021					<0.003	
2/12/2021						<0.003
3/2/2021		<0.003				
3/3/2021	<0.003		<0.003	<0.003	<0.003	<0.003
8/19/2021		<0.003				
8/20/2021	<0.003		<0.003	<0.003	<0.003	<0.003
2/8/2022				<0.003	<0.003	<0.003
2/10/2022	<0.003	<0.003	<0.003			
8/31/2022	0.001 (J)	<0.003				
9/1/2022			<0.003	<0.003	<0.003	<0.003
2/8/2023						<0.003
2/9/2023	<0.003	<0.003	0.0014 (J)	<0.003	<0.003	
8/2/2023						<0.003
8/16/2023					0.0023 (J)	
8/17/2023	<0.003	<0.003	<0.003	<0.003		
2/21/2024			<0.003	<0.003	<0.003	
2/22/2024	<0.003	<0.003				<0.003
8/21/2024	<0.003	<0.003	<0.003			
8/22/2024				<0.003	<0.003	<0.003
Mean	0.002687	0.002877	0.002806	0.002877	0.002968	0.002923
Std. Dev.	0.0008107	0.0003975	0.0006495	0.0005756	0.0001492	0.0003624
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.001	0.0017	0.0014	0.0003	0.0023	0.0013

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.005	<0.005	0.0011 (J)	<0.005			
6/9/2016					<0.005	0.00094 (J)	<0.005
8/1/2016	<0.005	<0.005	0.0009 (J)	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	<0.005	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	<0.005	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	<0.005				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		<0.005					
5/5/2017					<0.005	<0.005	
5/8/2017	<0.005		0.0006 (J)	<0.005			<0.005
6/30/2017			<0.005 (*)	<0.005 (*)			
7/5/2017					<0.005		<0.005
7/7/2017						0.0007 (J)	
7/10/2017	<0.005	<0.005					
3/29/2018			0.0006 (J)	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	0.00069 (J)	
6/11/2018							<0.005
6/12/2018				<0.005	<0.005	0.00075 (J)	
6/13/2018	<0.005	<0.005	<0.005				
10/2/2018	<0.005	<0.005	<0.005	<0.005			<0.005
10/3/2018					<0.005	0.0007 (J)	
2/27/2019	<0.005	<0.005	0.00069 (J)	<0.005	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	<0.005				<0.005	
9/25/2019	<0.005	<0.005					<0.005
9/26/2019			0.00058 (J)	<0.005	<0.005	0.00057 (J)	
2/13/2020	<0.005	<0.005	0.00055 (J)	<0.005	<0.005	0.00065 (J)	<0.005
3/19/2020		<0.005			<0.005	0.00051 (J)	
3/20/2020	<0.005		0.00042 (J)	<0.005			<0.005
9/24/2020	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/10/2021	<0.005	<0.005	<0.005	<0.005			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		<0.005					
3/3/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
8/19/2021		<0.005					
8/20/2021	<0.005		<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2022				0.0019 (J)	0.0021 (J)	0.0042 (J)	0.0033 (J)
2/10/2022	0.0028 (J)	0.0032 (J)	0.004 (J)				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023							<0.005
2/9/2023	0.0024 (J)	0.0022 (J)	<0.005	<0.005	<0.005	<0.005	
8/2/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					<0.005
8/21/2024	<0.005	<0.005	<0.005				
8/22/2024				<0.005	<0.005	<0.005	<0.005
Mean	0.004815	0.004823	0.003632	0.004881	0.004888	0.003643	0.004935
Std. Dev.	0.0006546	0.0006408	0.00202	0.000608	0.0005687	0.002015	0.0003334
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0028	0.0032	0.0009	0.0019	0.0021	0.00075	0.0033

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.068	0.029	0.081	0.12			
6/9/2016					0.1	0.22	0.082
8/1/2016	0.0688	0.0316	0.0838	0.115			
8/2/2016					0.0836	0.212	0.0781
9/20/2016	0.0663	0.0298	0.0687	0.108			
9/21/2016					0.0889	0.228	0.0782
11/7/2016	0.065	0.0289	0.0639	0.102		0.214	0.0712
11/8/2016					0.0886		
1/18/2017	0.0625	0.0278	0.0645		0.0862	0.213	
1/19/2017				0.102			0.0689
2/21/2017	0.0655	0.0282				0.222	
2/22/2017				0.106	0.0915		0.0741
2/23/2017			0.0728				
5/3/2017		0.0282					
5/5/2017					0.0891	0.219	
5/8/2017	0.0699		0.0721	0.102			0.0725
6/30/2017			0.0666	0.0963			
7/5/2017					0.0862		0.0677
7/7/2017						0.205	
7/10/2017	0.0691	0.0274					
3/29/2018			0.062	0.097			0.055
3/30/2018	0.063	0.026			0.087	0.2	
6/11/2018							0.068
6/12/2018				0.095	0.088	0.21	
6/13/2018	0.064	0.026	0.063				
10/2/2018	0.066	0.026	0.062	0.1			0.067
10/3/2018					0.092	0.22	
2/27/2019	0.065	0.027	0.066	0.096	0.086	0.21	0.067
4/1/2019			0.066	0.099	0.088		0.063
4/2/2019	0.065	0.027				0.2	
9/25/2019	0.063	0.026					0.061
9/26/2019			0.065	0.099	0.087	0.18	
2/13/2020	0.06	0.025	0.063	0.097	0.089	0.21	0.053
3/19/2020		0.027			0.089	0.2	
3/20/2020	0.063		0.062	0.095			0.057
9/24/2020	0.058	0.025	0.069	0.087	0.079	0.18	0.056
2/10/2021	0.06	0.031	0.08	0.088			
2/11/2021					0.078		
2/12/2021						0.057	0.21
3/2/2021		0.031					
3/3/2021	0.064		0.08	0.075	0.077	0.25	0.059
8/19/2021		0.023					
8/20/2021	0.063		0.083	0.082	0.079	0.24	0.057
2/8/2022				0.068	0.083	0.2	0.057
2/10/2022	0.063	0.027	0.079				
8/31/2022	0.057	0.024					
9/1/2022			0.076	0.049	0.068	0.2	0.057
2/8/2023							0.098
2/9/2023	0.058	0.028	0.076	0.049	0.07	0.22	
8/2/2023							0.1
8/16/2023					0.066	0.21	
8/17/2023	0.061	0.025	0.069	0.051			

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024			0.06	0.047	0.062	0.21	
2/22/2024	0.057	0.025					0.081
8/21/2024	0.058	0.026	0.061				
8/22/2024				0.051	0.065	0.2	0.076
Mean	0.0632	0.02715	0.06982	0.08755	0.08258	0.205	0.07441
Std. Dev.	0.003752	0.002179	0.00763	0.02182	0.00952	0.0338	0.03027
Upper Lim.	0.06502	0.02821	0.07354	0.09908	0.08722	0.2194	0.0781
Lower Lim.	0.06137	0.02609	0.0661	0.08018	0.07794	0.2003	0.059

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S
6/8/2016	<0.0005	<0.0005	<0.0005
8/1/2016	0.0002 (J)	<0.0005	<0.0005
9/20/2016	0.0001 (J)	9E-05 (J)	<0.0005
11/7/2016	0.0001 (J)	0.0001 (J)	<0.0005
1/18/2017	0.0002 (J)	0.0002 (J)	
1/19/2017			<0.0005
2/21/2017	0.0002 (J)		
2/22/2017			<0.0005
2/23/2017		0.0002 (J)	
5/3/2017	0.0002 (J)		
5/8/2017		0.0002 (J)	<0.0005
6/30/2017		0.0002 (J)	<0.0005
7/10/2017	0.0002 (J)		
3/29/2018		<0.0005	<0.0005
3/30/2018	<0.0005		
2/27/2019	0.00018 (J)	0.00022 (J)	<0.0005
4/1/2019		0.00022 (J)	<0.0005
4/2/2019	0.00015 (J)		
9/25/2019	0.00011 (J)		
9/26/2019		0.0002 (J)	<0.0005
2/13/2020	0.00015 (J)	0.00021 (J)	<0.0005
3/19/2020	0.00012 (J)		
3/20/2020		0.00023 (J)	<0.0005
9/24/2020	8.5E-05 (J)	0.00019 (J)	<0.0005
2/10/2021	0.00013 (J)	0.00014 (J)	6.6E-05 (J)
3/2/2021	0.00016 (J)		
3/3/2021		0.00013 (J)	<0.0005
8/19/2021	8.2E-05 (J)		
8/20/2021		8.6E-05 (J)	0.00011 (J)
2/8/2022			<0.0005
2/10/2022	9.3E-05 (J)	0.00013 (J)	
8/31/2022	7.4E-05 (J)		
9/1/2022		0.00012 (J)	<0.0005
2/9/2023	6.8E-05 (J)	0.0001 (J)	<0.0005
8/17/2023	<0.0005	9.5E-05 (J)	<0.0005
2/21/2024		0.00011 (J)	<0.0005
2/22/2024	<0.0005		
8/21/2024	<0.0005	<0.0005	
8/22/2024			<0.0005
Mean	0.0002126	0.0002155	0.0004657
Std. Dev.	0.0001567	0.0001383	0.0001165
Upper Lim.	0.0001273	0.0001505	0.0005
Lower Lim.	9.142E-05	0.0001065	0.00011

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28S	YGWC-29IB
6/9/2016	0.00055 (J)	<0.0005	<0.0025
8/2/2016	0.0001 (J)	<0.0005	0.0001 (J)
9/21/2016	0.0001 (J)	<0.0005	0.0002 (J)
11/7/2016		<0.0005	0.0002 (J)
11/8/2016	9E-05 (J)		
1/18/2017	9E-05 (J)	<0.0005	
1/19/2017			0.0001 (J)
2/21/2017		<0.0005	
2/22/2017	0.0001 (J)		0.0001 (J)
5/5/2017	9E-05 (J)	<0.0005	
5/8/2017			0.0002 (J)
7/5/2017	0.0002 (J)		0.0002 (J)
7/7/2017		<0.0005	
3/29/2018			<0.0025
3/30/2018	<0.0005	<0.0005	
2/27/2019	0.00014 (J)	<0.0005	0.00026 (J)
4/1/2019	0.00043 (J)		0.00022 (J)
4/2/2019		<0.0005	
9/25/2019			0.00024 (J)
9/26/2019	<0.0005	<0.0005	
2/13/2020	0.00013 (J)	<0.0005	0.00018 (J)
3/19/2020	0.00016 (J)	<0.0005	
3/20/2020			0.00022 (J)
9/24/2020	0.00027 (J)	<0.0005	0.00033 (J)
2/11/2021	0.00052 (J)		
2/12/2021		0.00048 (J)	<0.0025
3/3/2021	0.00014 (J)	<0.0005	0.00029 (J)
8/20/2021	0.00027 (J)	<0.0005	0.00027 (J)
2/8/2022	0.00033 (J)	<0.0005	0.00019 (J)
9/1/2022	0.00017 (J)	<0.0005	0.0002 (J)
2/8/2023			0.00028 (J)
2/9/2023	<0.0005	<0.0005	
8/2/2023			0.00016 (J)
8/16/2023	<0.0005	<0.0005	
2/21/2024	<0.0005	<0.0005	
2/22/2024			0.00012 (J)
8/22/2024	0.00016 (J)	<0.0005	0.00014 (J)
Mean	0.0002725	0.0004992	0.0003312
Std. Dev.	0.0001758	4.082E-06	0.0003599
Upper Lim.	0.0005	0.0005	0.00028
Lower Lim.	0.00013	0.00048	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.005	<0.005	<0.005	<0.005			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	0.0008 (J)	0.0026 (J)	<0.005	<0.005			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.005	0.001 (J)	<0.005	<0.005			
9/21/2016					<0.005	<0.005	<0.005
11/7/2016	<0.005	0.0013 (J)	<0.005	<0.005		<0.005	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.002 (J)	<0.005		<0.005	<0.005	
1/19/2017				<0.005			<0.005
2/21/2017	<0.005	0.0019 (J)				<0.005	
2/22/2017				<0.005	<0.005		<0.005
2/23/2017			<0.005				
5/3/2017		0.0037 (J)					
5/5/2017					<0.005	<0.005	
5/8/2017	0.0006 (J)		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						<0.005	
7/10/2017	<0.005 (*)	<0.005 (*)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.005	0.015	<0.005	<0.005	<0.005
4/1/2019			<0.005	<0.005	<0.005		<0.005
4/2/2019	<0.005	0.003 (J)				<0.005	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.005
9/26/2019			<0.005	<0.005	0.00044 (J)	<0.005	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.005	<0.005	0.00047 (J)	<0.005	<0.005
3/19/2020		0.0018 (J)			<0.005	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.005	0.0005 (J)			<0.005
9/24/2020	0.00067 (J)	0.00068 (J)	<0.005	0.00057 (J)	<0.005	0.0006 (J)	<0.005
2/10/2021	0.00065 (J)	0.00091 (J)	<0.005	0.0027 (J)			
2/11/2021					<0.005		
2/12/2021						<0.005	<0.005
3/2/2021		0.001 (J)					
3/3/2021	<0.005		<0.005	0.00058 (J)	<0.005	<0.005	<0.005
8/19/2021		0.0012 (J)					
8/20/2021	<0.005		0.012	0.0041 (J)	<0.005	<0.005	<0.005
2/8/2022				<0.005	<0.005	<0.005	<0.005
2/10/2022	<0.005	<0.005	<0.005				
8/31/2022	<0.005	<0.005					
9/1/2022			<0.005	<0.005	<0.005	<0.005	<0.005
2/8/2023							<0.005
2/9/2023	<0.005	<0.005	<0.005	<0.005	<0.005	0.0034 (J)	
8/2/2023							<0.005
8/16/2023					<0.005	<0.005	
8/17/2023	<0.005	<0.005	<0.005	<0.005			
2/21/2024			<0.005	<0.005	<0.005	<0.005	
2/22/2024	<0.005	<0.005					<0.005
8/21/2024	<0.005	<0.005	<0.005				
8/22/2024				<0.005	<0.005	<0.005	<0.005
Mean	0.003727	0.003083	0.005292	0.004727	0.004434	0.004375	0.004812

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
Std. Dev.	0.002019	0.001827	0.001429	0.002668	0.00153	0.00152	0.0009186
Upper Lim.	0.005	0.005	0.012	0.005	0.005	0.005	0.005
Lower Lim.	0.0008	0.0012	0.005	0.0041	0.0005	0.0034	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016				0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016				<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016				<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016				<0.005		
1/18/2017	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017			0.0024 (J)			<0.005
2/21/2017	0.0022 (J)				0.0011 (J)	
2/22/2017			0.0023 (J)	<0.005		<0.005
2/23/2017		0.002 (J)				
5/3/2017	0.002 (J)					
5/5/2017				<0.005	0.0012 (J)	
5/8/2017		0.0029 (J)	0.0023 (J)			<0.005
6/30/2017		0.0044 (J)	0.0022 (J)			
7/5/2017				<0.005		0.0003 (J)
7/7/2017					0.0012 (J)	
7/10/2017	0.002 (J)					
3/29/2018		0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005			<0.005	<0.005	
6/11/2018						<0.005
6/12/2018			0.0025 (J)	<0.005	0.0011 (J)	
6/13/2018	0.0017 (J)	0.092				
10/2/2018	0.002 (J)	0.078	0.0023 (J)			<0.005
10/3/2018				<0.005	0.0013 (J)	
2/27/2019	0.0017 (J)	0.035	0.0024 (J)	<0.005	0.00093 (J)	<0.005
4/1/2019		0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	0.0022 (J)				0.0011 (J)	
9/25/2019	0.0033 (J)					<0.005
9/26/2019		0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	0.0019 (J)	0.012	0.0026 (J)	<0.005	0.00092 (J)	<0.005
3/19/2020	0.0021 (J)			<0.005	0.00093 (J)	
3/20/2020		0.014	0.0022 (J)			<0.005
9/24/2020	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005
2/10/2021	0.0017 (J)	0.0048 (J)	0.0025 (J)			
2/11/2021				<0.005		
2/12/2021					<0.005	0.00094 (J)
3/2/2021	0.0021 (J)					
3/3/2021		0.0042 (J)	0.0017 (J)	<0.005	0.001 (J)	<0.005
8/19/2021	0.0017 (J)					
8/20/2021		0.0034 (J)	0.0027 (J)	<0.005	0.00097 (J)	<0.005
2/8/2022			0.0017 (J)	<0.005	0.00091 (J)	<0.005
2/10/2022	0.0026 (J)	0.0051				
8/31/2022	0.0026 (J)					
9/1/2022		0.0096	0.0015 (J)	<0.005	0.00071 (J)	<0.005
2/8/2023						0.0053
2/9/2023	0.0017 (J)	0.0083	0.0015 (J)	<0.005	0.00074 (J)	
8/2/2023						0.0027 (J)
8/16/2023				<0.005	0.0008 (J)	
8/17/2023	0.00088 (J)	0.0079	0.0014 (J)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024		0.016	0.0016 (J)	<0.005	0.00074 (J)	
2/22/2024	0.0012 (J)					0.0071
8/21/2024	0.00094 (J)	0.012				
8/22/2024			0.0014 (J)	<0.005	0.00085 (J)	0.0061
Mean	0.002078	0.016	0.002165	0.004824	0.001068	0.004202
Std. Dev.	0.0006518	0.02327	0.0004176	0.0008982	0.0004477	0.001907
Upper Lim.	0.002395	0.01368	0.002383	0.005	0.0011	0.0053
Lower Lim.	0.00176	0.004193	0.002008	0.00042	0.00085	0.0027

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	6.68 (o)	0.677	1.81	0.257 (U)			
6/9/2016					0.194 (U)	0.715	0.523
8/1/2016	0.606 (U)	0.457 (U)	3.79	0.453 (U)			
8/2/2016					0.331 (U)	0.526 (U)	1.25
9/20/2016	0.565 (U)	0.555 (U)	3.12	1.27			
9/21/2016					0.335 (U)	0.176 (U)	1.21 (U)
11/7/2016	0.773 (U)	0.647 (U)	2.66	0.877 (U)		0.609 (U)	1.16
11/8/2016					0.245 (U)		
1/18/2017	0.263 (U)	0.6 (U)	3.44		0.261 (U)	0.0752 (U)	
1/19/2017				0.764 (U)			0.933 (U)
2/21/2017	1.06 (U)	1.11 (U)				0.404 (U)	
2/22/2017				1.26 (U)	0.516 (U)		1.45 (U)
2/23/2017			4.73				
5/3/2017		0.654 (U)					
5/5/2017					0.713 (U)	0.868 (U)	
5/8/2017	0.291 (U)		3.87	0.789 (U)			0.21 (U)
6/30/2017			2.85	0.592 (U)			
7/5/2017					0.292 (U)		0.62 (U)
7/7/2017						1.29	
7/10/2017	0.912	0.649 (U)					
3/29/2018			1.41	0.916 (U)			1.37
3/30/2018	0.23 (U)	0.501 (U)			0.948 (U)	0.195 (U)	
6/11/2018							1.27 (U)
6/12/2018				0.666 (U)	0.869 (U)	1.02 (U)	
6/13/2018	0.427 (U)	1.09 (U)	3.69				
10/2/2018	1.41 (U)	0.747 (U)	4.5	0.774 (U)			0.442 (U)
10/3/2018					0.864 (U)	0.713 (U)	
2/27/2019	0.614 (U)	1.27	4.69	1.19	0.947 (U)	0.543 (U)	0.902 (U)
4/1/2019			5	0.777 (U)	0.162 (U)		0.584 (U)
4/2/2019	0.84 (U)	0.708 (U)				0.521 (U)	
9/25/2019	1.01 (U)	1.18 (U)					1.03 (U)
9/26/2019			3.37	1.01 (U)	1.06 (U)	1.16	
2/13/2020	1.86	0.178 (U)	4.48	0.961 (U)	1.12 (U)	1.04	0.806 (U)
3/19/2020		0.796 (U)			0.913 (U)	1.01 (U)	
3/20/2020	2.03		4.13	1.5			1.42
9/24/2020	<1.53	<1.9	3.42	1.49	<2.15	<1.86	<1.88
2/10/2021	0.513 (U)	0.41 (U)	2.47	0.663 (U)			
2/11/2021					1.07		
2/12/2021						0.419 (U)	0.826
3/2/2021		0.394 (U)					
3/3/2021	0.419 (U)		1.39	0.327 (U)	0.261 (U)	1.04	0.955
8/19/2021		0.531 (U)					
8/20/2021	0.596 (U)		1.36	0.542 (U)	0.656 (U)	1.34	0.314 (U)
2/8/2022				0.781 (U)	1.07 (U)	0.964	0.104 (U)
2/10/2022	0.149 (U)	0.431 (U)	1.23				
8/31/2022	0.179 (U)	0.602 (U)					
9/1/2022			2.93	0.147 (U)	0.602 (U)	0.127 (U)	0.445 (U)
2/8/2023							0.963 (U)
2/9/2023	1.05 (U)	0.46 (U)	2.56	0.348 (U)	0.164 (U)	0.733 (U)	
8/2/2023							1.23
8/16/2023					0.62 (U)	0.837 (U)	
8/17/2023	0.635 (U)	0.734 (U)	3.48	0.509 (U)			

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/21/2024			3.26	0.669 (U)	0.447 (U)	0.781 (U)	
2/22/2024	0.745 (U)	0.303 (U)					0.871 (U)
8/21/2024	0.442 (U)	0.78 (U)	2.97				
8/22/2024				0.428 (U)	0.762 (U)	0.58 (U)	0.459 (U)
Mean	0.7354	0.6698	3.177	0.7677	0.6345	0.716	0.8572
Std. Dev.	0.4774	0.2718	1.103	0.3618	0.3354	0.3518	0.3849
Upper Lim.	0.9014	0.8022	3.715	0.944	0.798	0.8875	1.045
Lower Lim.	0.4691	0.5373	2.64	0.5914	0.471	0.5445	0.6696

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.094 (J)	<0.1	0.086 (J)	0.12 (J)			
6/9/2016					0.098 (J)	0.16 (J)	0.085 (J)
8/1/2016	0.08 (J)	0.24 (J)	0.14 (J)	0.22 (J)			
8/2/2016					0.38	0.5	0.09 (J)
9/20/2016	0.05 (J)	0.03 (J)	<0.3	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.3 (*)	<0.1 (*)		0.27 (J)	<0.3 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.3 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.3 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.3 (*)		<0.3 (*)
2/23/2017			<0.3 (*)				
5/3/2017		0.16 (J)					
5/5/2017					0.08 (J)	0.2 (J)	
5/8/2017	0.08 (J)		0.07 (J)	0.19 (J)			0.06 (J)
6/30/2017			<0.3 (*)	0.2 (J)			
7/5/2017					0.11 (J)		0.08 (J)
7/7/2017						0.18 (J)	
7/10/2017	<0.1 (*)	<0.1 (*)					
10/5/2017					<0.3 (*)		<0.3 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.3 (*)			<0.3 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.3	0.49			<0.3
3/30/2018	<0.1	0.35			<0.3	<0.3	
6/11/2018							<0.3
6/12/2018				0.037 (J)	<0.3	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.3				
10/2/2018	<0.1	<0.1	<0.3	<0.1			<0.3
10/3/2018					<0.3	0.31	
2/27/2019	<0.1	<0.1	<0.3	0.14 (J)	0.14 (J)	0.22 (J)	0.15 (J)
4/1/2019			0.034 (J)	0.088 (J)	0.078 (J)		0.059 (J)
4/2/2019	0.071 (J)	<0.1				0.14 (J)	
9/25/2019	0.064 (J)	<0.1					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.1	<0.1	<0.3	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.1			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.3	0.097 (J)			0.057 (J)
9/24/2020	0.053 (J)	<0.1	0.059 (J)	0.092 (J)	0.073 (J)	0.16	0.06 (J)
2/10/2021	0.05 (J)	<0.1	0.055 (J)	0.084 (J)			
2/11/2021					0.066 (J)		
2/12/2021						0.069 (J)	0.17
3/2/2021		<0.1					
3/3/2021	0.05 (J)		0.058 (J)	<0.1	0.072 (J)	0.13	0.056 (J)
8/19/2021		<0.1					
8/20/2021	<0.1		0.091 (J)	0.11	0.11	0.2	0.069 (J)
2/8/2022				0.087 (J)	0.063 (J)	0.14	0.053 (J)
2/10/2022	<0.1	<0.1	0.059 (J)				
8/31/2022	0.082 (J)	0.076 (J)					
9/1/2022			0.1	0.12	0.11	0.16	0.091 (J)
2/8/2023							0.092 (J)

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
2/9/2023	0.088 (J)	0.07 (J)	0.1	0.12	0.14	0.18	
8/2/2023							0.054 (J)
8/16/2023					0.078 (J)	0.18	
8/17/2023	0.073 (J)	0.06 (J)	0.081 (J)	0.098 (J)			
2/21/2024			0.082 (J)	0.11	0.096 (J)	0.15	
2/22/2024	0.057 (J)	<0.1					0.075 (J)
8/21/2024	0.098 (J)	<0.1	0.12				
8/22/2024				0.075 (J)	0.08 (J)	0.14	0.071 (J)
Mean	0.08326	0.1211	0.1806	0.1403	0.1561	0.2	0.1359
Std. Dev.	0.01962	0.08779	0.1112	0.09932	0.1004	0.08639	0.1025
Upper Lim.	0.1	0.16	0.3	0.1701	0.29	0.2312	0.17
Lower Lim.	0.064	0.076	0.081	0.09027	0.078	0.1572	0.059

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lead (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-28S	YGWC-29IB
6/8/2016	<0.001	<0.001	<0.001 (*)		
6/9/2016				<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001		
8/2/2016				<0.001	<0.001
9/20/2016	<0.001	<0.001	0.0002 (J)		
9/21/2016				<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001	<0.001
1/18/2017	<0.001	<0.001		<0.001	
1/19/2017			<0.001		<0.001
2/21/2017	<0.001	<0.001		<0.001	
2/22/2017			<0.001		<0.001
5/3/2017		<0.001 (*)			
5/5/2017				<0.001 (*)	
5/8/2017	<0.001		<0.001		<0.001
6/30/2017			<0.001		
7/5/2017					<0.001
7/7/2017				7E-05 (J)	
7/10/2017	<0.001	8E-05 (J)			
3/29/2018			<0.001		<0.001
3/30/2018	<0.001	<0.001		<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	<0.001	6.2E-05 (J)	5.4E-05 (J)	<0.001
3/19/2020		0.0001 (J)		7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		8.5E-05 (J)		<0.001
9/24/2020	<0.001	6.4E-05 (J)	0.00037 (J)	6.3E-05 (J)	9.5E-05 (J)
2/10/2021	5.1E-05 (J)	5E-05 (J)	0.00072 (J)		
2/12/2021				5.2E-05 (J)	6.6E-05 (J)
3/2/2021		5.6E-05 (J)			
3/3/2021	<0.001		<0.001	<0.001	0.00016 (J)
8/19/2021		<0.001			
8/20/2021	<0.001		0.00096 (J)	<0.001	<0.001
2/8/2022			<0.001	<0.001	<0.001
2/10/2022	<0.001	<0.001			
8/31/2022	<0.001	<0.001			
9/1/2022			<0.001	<0.001	<0.001
2/8/2023					<0.001
2/9/2023	<0.001	<0.001	<0.001	<0.001	
8/2/2023					<0.001
8/16/2023				<0.001	
8/17/2023	<0.001	<0.001	<0.001		
2/21/2024			<0.001	<0.001	
2/22/2024	<0.001	<0.001			<0.001
8/21/2024	<0.001	<0.001			
8/22/2024			<0.001	<0.001	<0.001
Mean	0.0009141	0.0007886	0.0008362	0.000787	0.0008782
Std. Dev.	0.0002781	0.000399	0.0003269	0.000402	0.000314
Upper Lim.	0.001	0.001	0.001	0.001	0.001
Lower Lim.	5.9E-05	0.0001	0.00096	7.5E-05	0.00016

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.007	0.0067	<0.03			
6/9/2016				0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	0.008 (J)	<0.03			
8/2/2016				0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	0.0111 (J)	<0.03			
9/21/2016				0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016				0.0072 (J)		
1/18/2017	0.0066 (J)	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017			<0.03			0.0055 (J)
2/21/2017	0.0067 (J)				<0.03	
2/22/2017			<0.03	0.0064 (J)		0.0063 (J)
2/23/2017		0.0099 (J)				
5/5/2017				0.007 (J)	<0.03	
5/8/2017	0.007 (J)	0.0086 (J)	<0.03			0.0066 (J)
6/30/2017		0.0108 (J)	<0.03			
7/5/2017				0.0072 (J)		0.0058 (J)
7/7/2017					<0.03	
7/10/2017	0.0064 (J)					
3/29/2018		0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)			0.007 (J)	<0.03	
6/11/2018						0.0064 (J)
6/12/2018			<0.03	0.0073 (J)	<0.03	
6/13/2018	0.0071 (J)	0.014 (J)				
10/2/2018	0.0064 (J)	0.012 (J)	<0.03			0.006 (J)
10/3/2018				0.0069 (J)	<0.03	
2/27/2019	0.0069 (J)	0.0096 (J)	<0.03	0.0063 (J)	<0.03	0.0053 (J)
4/1/2019		0.0082 (J)	<0.03	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)				<0.03	
9/25/2019	0.0073 (J)					0.0057 (J)
9/26/2019		0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020				0.007 (J)	<0.03	
3/20/2020	0.0072 (J)	0.0091 (J)	<0.03			0.0051 (J)
9/24/2020	0.0074 (J)	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)
2/10/2021	0.0067 (J)	0.0067 (J)	0.00081 (J)			
2/11/2021				0.007 (J)		
2/12/2021					0.0053 (J)	<0.03
3/3/2021	0.0077 (J)	0.0066 (J)	<0.03	0.0063 (J)	<0.03	0.0054 (J)
8/20/2021	0.0079 (J)	0.0066 (J)	0.0013 (J)	0.0072 (J)	<0.03	0.0056 (J)
2/8/2022			<0.03	0.0076 (J)	<0.03	0.0064 (J)
2/10/2022	0.0086 (J)	0.0072 (J)				
8/31/2022	0.0074 (J)					
9/1/2022		0.0069 (J)	<0.03	0.0066 (J)	<0.03	0.0051 (J)
2/8/2023						0.012 (J)
2/9/2023	0.0075 (J)	0.0069 (J)	<0.03	0.0066 (J)	<0.03	
8/2/2023						0.013 (J)
8/16/2023				0.0058 (J)	<0.03	
8/17/2023	0.0077 (J)	0.0067 (J)	<0.03			
2/21/2024		0.007 (J)	<0.03	0.0056 (J)	<0.03	
2/22/2024	0.0078 (J)					0.0051 (J)
8/21/2024	0.0072 (J)	0.0068 (J)				

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
8/22/2024			<0.03	0.006 (J)	<0.03	0.0044 (J)
Mean	0.007065	0.008577	0.02777	0.006742	0.02905	0.006688
Std. Dev.	0.0006183	0.001995	0.007866	0.0004957	0.004844	0.002618
Upper Lim.	0.007367	0.00939	0.03	0.006984	0.03	0.0066
Lower Lim.	0.006764	0.007557	0.0013	0.006501	0.0053	0.0052

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0002	<0.0002	<0.0002	<0.0002			
8/2/2016					<0.0002	<0.0002	<0.0002
9/20/2016	<0.0002	<0.0002	<0.0002	<0.0002			
9/21/2016					<0.0002	<0.0002	<0.0002
11/7/2016	<0.0002	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002
11/8/2016					<0.0002		
1/18/2017	<0.0002	<0.0002	<0.0002		<0.0002	<0.0002	
1/19/2017				<0.0002			<0.0002
2/21/2017	<0.0002	<0.0002				<0.0002	
2/22/2017				<0.0002	<0.0002		<0.0002
2/23/2017			<0.0002				
5/3/2017		<0.0002					
5/5/2017					<0.0002	<0.0002	
5/8/2017	<0.0002		<0.0002	<0.0002			<0.0002
6/30/2017			<0.0002 (*)	<0.0002 (*)			
7/5/2017					<0.0002		<0.0002
7/7/2017						<0.0002	
7/10/2017	<0.0002	<0.0002					
3/29/2018			<0.0002	<0.0002			<0.0002
3/30/2018	<0.0002	<0.0002			<0.0002	<0.0002	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0002		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0002	
9/25/2019	<0.0002	<0.0002					<0.0002
9/26/2019			<0.0002	<0.0002	<0.0002	<0.0002	
2/13/2020	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002
2/10/2021	<0.0002	<0.0002	<0.0002	<0.0002			
2/11/2021					<0.0002		
2/12/2021						<0.0002	<0.0002
2/8/2022				<0.0002	<0.0002	<0.0002	<0.0002
2/10/2022	<0.0002	<0.0002	<0.0002				
8/31/2022	<0.0002	<0.0002					
9/1/2022			<0.0002	0.00019 (J)	<0.0002	<0.0002	<0.0002
2/8/2023							<0.0002
2/9/2023	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	<0.0002	
8/2/2023							<0.0002
8/16/2023					<0.0002	<0.0002	
8/17/2023	<0.0002	<0.0002	<0.0002	<0.0002			
2/21/2024			<0.0002	<0.0002	<0.0002	<0.0002	
2/22/2024	<0.0002	<0.0002					<0.0002
8/21/2024	<0.0002	<0.0002	<0.0002				
8/22/2024				<0.0002	<0.0002	<0.0002	<0.0002
Mean	0.0001851	0.0001857	0.0001849	0.000184	0.0001924	0.0001926	0.0001843
Std. Dev.	4.586E-05	4.395E-05	4.635E-05	4.761E-05	3.399E-05	3.309E-05	4.834E-05
Upper Lim.	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002	0.0002
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	0.00019	4.8E-05	5.2E-05	4.7E-05

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29IB
6/8/2016	0.0011 (J)			
6/9/2016		0.0011 (J)	<0.01	<0.01
8/1/2016	0.0018 (J)			
8/2/2016		0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01			
9/21/2016		<0.01	<0.01	<0.01
11/7/2016	<0.01		<0.01	<0.01
11/8/2016		<0.01		
1/18/2017	<0.01	<0.01	<0.01	
1/19/2017				<0.01
2/21/2017			<0.01	
2/22/2017		<0.01		<0.01
2/23/2017	<0.01			
5/5/2017		0.0014 (J)	0.0007 (J)	
5/8/2017	0.0011 (J)			<0.01
6/30/2017	<0.01			
7/5/2017		0.0014 (J)		<0.01
7/7/2017			<0.01	
3/29/2018	<0.01			<0.01
3/30/2018		<0.01	<0.01	
6/11/2018				<0.01
6/12/2018		<0.01	<0.01	
6/13/2018	<0.01			
10/2/2018	<0.01			<0.01
10/3/2018		<0.01	<0.01	
2/27/2019	<0.01	<0.01	<0.01	<0.01
4/1/2019	<0.01	<0.01		<0.01
4/2/2019			<0.01	
9/25/2019				<0.01
9/26/2019	0.0013 (J)	0.0013 (J)	<0.01	
2/13/2020	0.0014 (J)	0.0013 (J)	<0.01	<0.01
3/19/2020		0.0014 (J)	<0.01	
3/20/2020	0.0014 (J)			<0.01
9/24/2020	0.0015 (J)	0.0012 (J)	0.00075 (J)	<0.01
2/10/2021	0.0016 (J)			
2/11/2021		0.0012 (J)		
2/12/2021			<0.01	0.00083 (J)
3/3/2021	0.0017 (J)	0.0011 (J)	0.00083 (J)	<0.01
8/20/2021	0.0042 (J)	0.001 (J)	<0.01	<0.01
2/8/2022		0.0011 (J)	0.00082 (J)	<0.01
2/10/2022	0.0018 (J)			
9/1/2022	0.0016 (J)	0.001 (J)	<0.01	<0.01
2/8/2023				0.00099 (J)
2/9/2023	0.0019 (J)	0.0014 (J)	0.00083 (J)	
8/2/2023				<0.01
8/16/2023		0.0016 (J)	0.00077 (J)	
8/17/2023	0.0016 (J)			
2/21/2024	0.0015 (J)	0.0013 (J)	0.00068 (J)	
2/22/2024				<0.01
8/21/2024	0.0016 (J)			
8/22/2024		0.0015 (J)	0.00063 (J)	<0.01
Mean	0.004888	0.004296	0.006793	0.009301

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28I	YGWC-28S	YGWC-29IB
Std. Dev.	0.004157	0.004235	0.004496	0.00247
Upper Lim.	0.01	0.01	0.01	0.01
Lower Lim.	0.0015	0.0012	0.00082	0.00099

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-28I	YGWC-28S
6/8/2016	0.0016	0.0003 (J)		
6/9/2016			<0.005	<0.005
8/1/2016	0.0023 (J)	0.0014 (J)		
8/2/2016			<0.005	<0.005
9/20/2016	0.0022 (J)	<0.005		
9/21/2016			<0.005	0.001 (J)
11/7/2016	0.0017 (J)	<0.005		<0.005
11/8/2016			<0.005	
1/18/2017	0.002 (J)	0.0012 (J)	<0.005	<0.005
2/21/2017	0.0018 (J)	0.0014 (J)		<0.005
2/22/2017			0.0012 (J)	
5/3/2017		<0.005		
5/5/2017			<0.005	<0.005
5/8/2017	<0.01			
7/5/2017			<0.005	
7/7/2017				<0.005
7/10/2017	0.002 (J)	<0.005		
3/30/2018	<0.01	<0.005	<0.005	<0.005
2/27/2019	0.002 (J)	<0.005	<0.005	<0.005
4/1/2019			<0.005	
4/2/2019	0.0017 (J)	<0.005		<0.005
9/25/2019	0.0019 (J)	<0.005		
9/26/2019			<0.005	<0.005
2/13/2020	0.0019 (J)	<0.005	<0.005	<0.005
3/19/2020		<0.005	<0.005	<0.005
3/20/2020	0.0019 (J)			
9/24/2020	0.0031 (J)	<0.005	<0.005	<0.005
2/10/2021	0.0026 (J)	<0.005		
2/11/2021			<0.005	
2/12/2021				<0.005
3/2/2021		<0.005		
3/3/2021	0.0034 (J)		<0.005	<0.005
8/19/2021		<0.005		
8/20/2021	0.0026 (J)		<0.005	<0.005
2/8/2022			<0.005	<0.005
2/10/2022	0.0042 (J)	<0.005		
8/31/2022	0.0036 (J)	<0.005		
9/1/2022			<0.005	<0.005
2/9/2023	0.0042 (J)	<0.005	<0.005	<0.005
8/16/2023			<0.005	<0.005
8/17/2023	0.0046 (J)	<0.005		
2/21/2024			<0.005	<0.005
2/22/2024	0.0041 (J)	<0.005		
8/21/2024	0.0047 (J)	<0.005		
8/22/2024			<0.005	<0.005
Mean	0.002921	0.004346	0.004842	0.004833
Std. Dev.	0.001194	0.001506	0.0007757	0.0008165
Upper Lim.	0.0041	0.005	0.005	0.005
Lower Lim.	0.0019	0.0014	0.0012	0.001

ND substitution: RL or RL/2 if <15% NDs.

Confidence Interval

Constituent: Thallium (mg/L) Analysis Run 11/7/2024 3:51 PM View: Appendix IV

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-27S	YGWC-29IB
6/8/2016	<0.001	0.00012 (J)	
6/9/2016			<0.001
8/1/2016	<0.001	0.0001 (J)	
8/2/2016			<0.001
9/20/2016	<0.001	<0.001	
9/21/2016			<0.001
11/7/2016	<0.001	<0.001	<0.001
1/18/2017	<0.001		
1/19/2017		<0.001	<0.001
2/21/2017	<0.001		
2/22/2017		<0.001	<0.001
5/3/2017	<0.001		
5/8/2017		0.0001 (J)	<0.001
6/30/2017		0.0001 (J)	
7/5/2017			<0.001
7/10/2017	<0.001		
3/29/2018		<0.001	<0.001
3/30/2018	<0.001		
2/27/2019	<0.001	<0.001	<0.001
2/13/2020	5.7E-05 (J)	0.0001 (J)	<0.001
3/19/2020	5.5E-05 (J)		
3/20/2020		0.00011 (J)	<0.001
9/24/2020	<0.001	<0.001	<0.001
2/10/2021	<0.001	<0.001	
2/12/2021			<0.001
2/8/2022		<0.001	<0.001
2/10/2022	<0.001		
8/31/2022	<0.001		
9/1/2022		<0.001	<0.001
2/8/2023			0.00021 (J)
2/9/2023	<0.001	<0.001	
8/2/2023			<0.001
8/17/2023	<0.001	<0.001	
2/21/2024		<0.001	
2/22/2024	<0.001		<0.001
8/21/2024	<0.001		
8/22/2024		<0.001	<0.001
Mean	0.0009056	0.0007315	0.0009605
Std. Dev.	0.0002906	0.0004208	0.0001766
Upper Lim.	0.001	0.001	0.001
Lower Lim.	5.7E-05	0.00011	0.00021

ND substitution: RL or RL/2 if <15% NDs.

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