

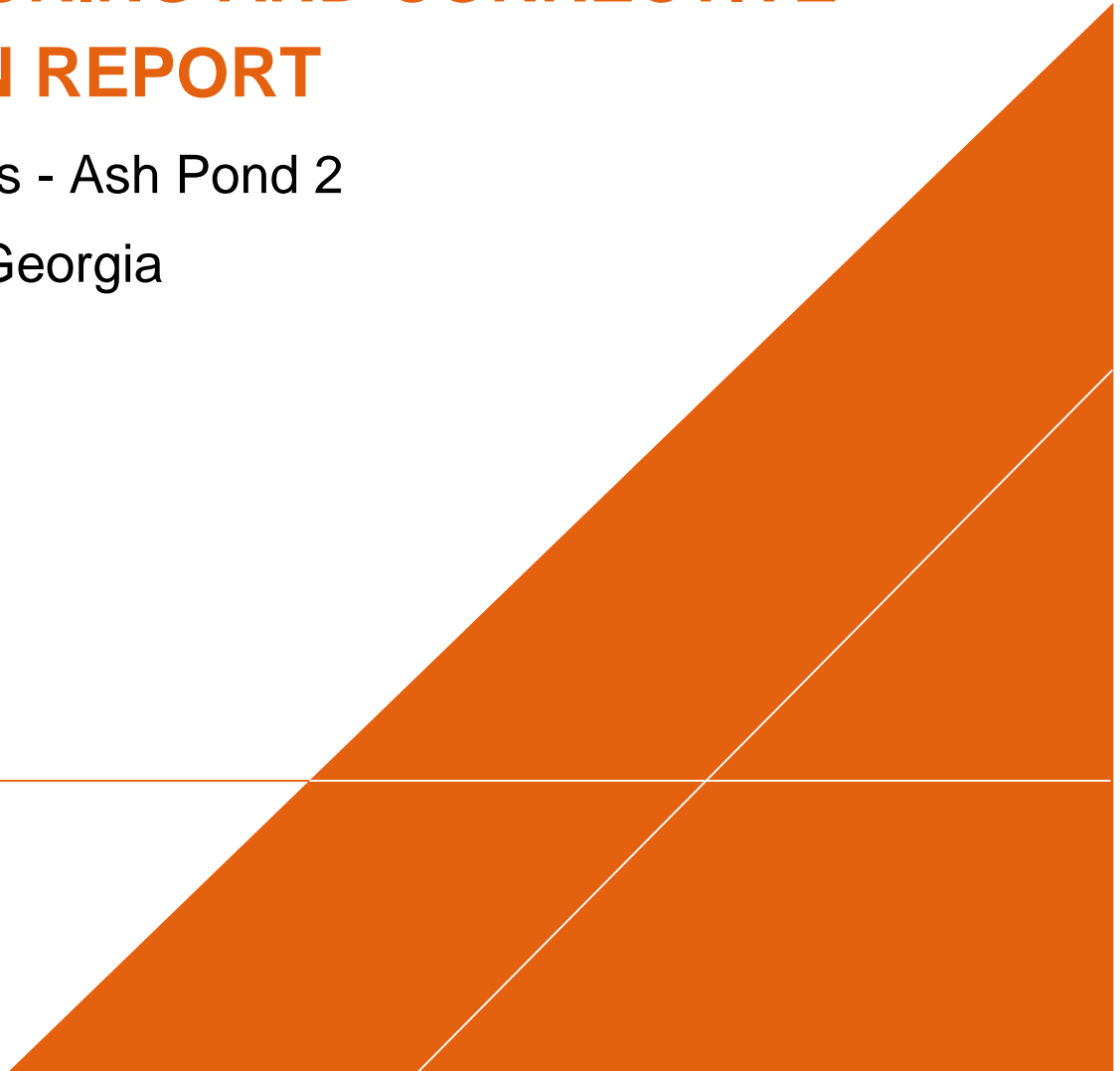


2020 ANNUAL GROUNDWATER MONITORING AND CORRECTIVE ACTION REPORT

Plant Yates - Ash Pond 2

Newnan, Georgia

January 2021



**2020 ANNUAL
GROUNDWATER
MONITORING AND
CORRECTIVE ACTION
REPORT**

Plant Yates - Ash Pond 2
Newnan, Georgia



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SUMMARY

This summary of the 2020 Annual Monitoring and Corrective Action Report provides the status of groundwater monitoring and corrective action program through December 2020 at Georgia Power Company's (Georgia Power's) Plant Yates Ash Pond (AP) AP-2 (the Site). This summary was prepared by Arcadis U.S., Inc. (Arcadis) on behalf of Georgia Power to meet the requirements listed in Part A, Section 6¹ of the U.S. Environmental Protection Agency (USEPA) coal combustion residual (CCR) rule (40 Code of Federal Regulations [CFR] 257 Subpart D).

Plant Yates is located at 708 Dyer Road, approximately 8 miles northwest of Newnan and 13 miles southeast of Carrollton in Coweta County, Georgia. Plant Yates originally operated seven coal-fired steam generating units. Five of the units were retired in 2015 and two units were converted from coal to natural gas. CCR material resulting from power generation have historically been transferred and stored at the Site. The Site is located on the southwestern portion of the Plant Yates property shown on Figure 1.



Figure 1. Plant Yates and the Site

Groundwater at the Site is monitored using a monitoring system comprised of 19 upgradient and 7 downgradient wells installed at the Site. 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 2020 annual reporting period, the Site remained in assessment monitoring.

During the 2020 reporting period, Arcadis conducted three groundwater sampling events in February, March, and September. Groundwater samples were submitted to Pace Analytical Services, LLC, for analysis. Per the CCR rule, groundwater results for March and September 2020 data were evaluated in accordance with the certified statistical methods. That evaluation showed statistically significant values of Appendix III² parameters in wells provided in the table below. There were no statistically significant levels (SSLs) for Appendix IV parameters.

Appendix III Parameter	March 2020	October 2020
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Calcium	YGWC-27S	YGWC-27S

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)

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Appendix III Parameter	March 2020	October 2020
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I	YGWC-26I, YGWC-26S, YGWC- 27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Sulfate	YGWC-26I, YGWC-26S, YGWC-27S, YGWC-29I	
Total Dissolved Solids		YGWC-28S

Based on review of the Appendix III and Appendix IV statistical results completed for the groundwater monitoring and corrective action program from January through December 2020, 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 EPD semiannually.

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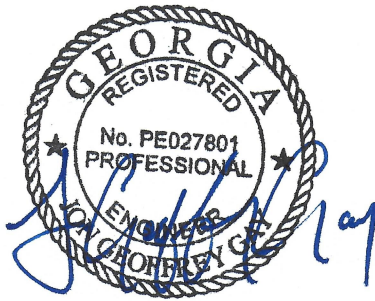
ACRONYMS AND ABBREVIATIONS

amsl	above mean sea level
Arcadis	Arcadis, Inc.
AP	Ash Pond
bgs	below ground surface
CCR	Coal Combustion Residuals
CFR	Code of Federal Regulations
DO	dissolved oxygen
ft	feet or foot
ft/ft	feet per foot
GAEPD	Georgia Environmental Protection Division
GPC	Georgia Power Company
GWPS	Groundwater Protection Standard
LCL	Lower Confidence Limit
MCL	Maximum Contaminant Level
MDL	Method Detection Limit
mg/L	milligrams per liter
NELAP	National Environmental Laboratory Accreditation Program
NTU	nephelometric turbidity units
PQL	laboratory reporting limit
QA/QC	Quality Assurance/Quality Control
SSI	Statistically Significant Increase
USEPA	United States Environmental Protection Agency

PROFESSIONAL CERTIFICATION

This *2020 Annual Groundwater Monitoring and Corrective Action Report* for the Georgia Power Company 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 257 Subpart D) and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with Arcadis, U.S., Inc.

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01.29.2021
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1 INTRODUCTION

This *2020 Annual Groundwater Monitoring and Corrective Action Report* presents groundwater monitoring activities conducted at the Georgia Power Company (GPC) Plant Yates Ash Pond (AP) AP-2 (the Site) in February, March, and September 2020. 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 of February 2020 annual monitoring for Appendix IV of 40 CFR 257, as well as semiannual monitoring events conducted in March and September 2020 and activities completed through 2020 in accordance with Rule 391-3-4-.10(6)(c).

This report documents the monitoring activities completed for the groundwater monitoring program through 2020 in accordance with § 257.90(e) at Plant Yates – AP-2.

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. The layout of Plant Yates and the other site features are shown in **Figure 2**.

A permit application to comply with EPD rules was submitted in November 2018 and is currently under review. 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 performance in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR Rule, and the EPD 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 January 2020).

A thin layer of soil from one to two 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 2020). This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The hydraulic conductivity values from the field tests fall within a range consistent with that of Piedmont overburden (Newell et al. 1990).

1.3 Groundwater Monitoring Well Network and CCR Unit Description

Pursuant to § 257.91, a groundwater monitoring system was installed within the uppermost aquifer at 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 compliance 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. 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 provided on **Figure 2**.

2 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed in 2020 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 2**.

Table 2 summarizes groundwater sampling events conducted by ACC at AP-2 during February, March, and by Arcadis in September 2020. During the February 2020 event, groundwater samples were collected and analyzed for 40 CFR 257 Appendix IV constituents to meet the requirement of 40 CFR § 257.95(b). During the March and September 2020 semiannual sampling events, groundwater samples were collected for both 40 CFR 257 Appendix III and the Appendix IV constituents detected during the February 2020 event. Field sampling logs are provided in **Appendix A**.

2.1 Monitoring Well Installation and Maintenance

There were no changes to the groundwater monitoring system in 2020; the network remained the same as in the 2019 (previous) reporting year. Monitoring well-related activities were limited to the following: visual inspection of well conditions prior to sampling, recording the site conditions, and performing exterior maintenance necessary for sampling under safe and clean conditions.

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 IV parameters in February 2020 pursuant to 40 CFR § 257.95(b). In accordance with 40 CFR § 257.95(d), semiannual assessment monitoring events occurred in March and September 2020 where samples were collected and analyzed for Appendix III parameters and Appendix IV parameters detected above the laboratory method detection limit (MDL) from the February 2020 event. A summary of groundwater sampling events completed during 2020 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

Prior to the 2020 assessment sampling events, static water levels were recorded from piezometers and wells at AP-2. Water levels at 14 monitoring wells within the certified well network were collected along with 8 non-network monitoring wells and/or piezometers. The groundwater elevation data are summarized in **Tables 3A and 3B**.

Saprolite and transition zone groundwater elevation data were used to prepare potentiometric surface elevation contour maps from February, March, and September gauging events (**Figures 3, 4, and 5**). In 2020, saprolite and transition zone groundwater elevations ranged from 822.07 feet (YGWA-2I) to 691.96 feet (YGWC-27I). 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 may be hydraulically independent of each other. 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.

Specifically:

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

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 March and September 2020 and are presented in **Tables 4A and 4B**. The calculated average groundwater linear flow velocity was approximately 25 feet per year.

3.2 Groundwater Sampling

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

A smarTroll™ or 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 prior to sampling. Turbidity was measured using a portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met for a minimum of three consecutive readings:

- ± 0.1 standard units for pH.
- ± 5% for specific conductance.
- Turbidity measurements less than 10 nephelometric turbidity units.

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 are included in **Appendix A**.

3.3 Laboratory Analyses

Samples were submitted for laboratory analysis from 14 monitoring wells as summarized in **Table 2**. During the February 2020 sampling event, the AP-2 wells were sampled and analyzed for Appendix IV parameters according to 40 CFR § 257.95(b). Groundwater samples collected during the semiannual event in March 2020 were analyzed for Appendix III parameters as well as those Appendix IV parameters detected above the laboratory MDL during the February 2020 event, in accordance with 40 CFR § 257.95(d). Mercury was not detected above the laboratory MDL during the February 2020 scan event

and, therefore, was not analyzed during the March/September events. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in **Appendix B**.

Analytical data collected from the 2020 sampling events are summarized in **Table 5**. A summary of historical groundwater data is provided in **Appendix C**.

Laboratory analyses were performed by Pace Analytical Services, LLC, which is accredited by the National Environmental Laboratory Accreditation Program and maintains this certification for all parameters analyzed for this project. Laboratory reports and chain-of-custody records for the monitoring events are presented in **Appendix B**.

3.4 Data Quality Assurance/Quality Control (QA/QC) and Validation

During each sampling event, quality assurance/quality control (QA/QC) samples were collected at a rate of one sample per every 10 samples. QA/QC samples included equipment blanks (where non-dedicated equipment is used), field blanks, and duplicate samples. Groundwater quality data in this report was 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 March 2020 (prepared by ACC) and September 2020 (prepared by Arcadis) data validation reports included in **Appendix B** summarize the validation actions and applicable interpretation.

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

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 March and September 2020 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 statically significant increase (SSI) or questionable result occurs, a second sample may be collected to verify the initial result or determine whether the result was an outlier. If resampling is performed and the initial finding is not verified, the resampled value replaces the initial finding. When the resample confirms the initial result, both values remain in the database and an SSI is declared. The following criteria were applied to the evaluation:

- Statistical analyses were not performed on analytes containing 100 percent non-detects.
- When data contained less than 15 percent non-detects in background, 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 for Appendix IV constituents with a target of 95 percent confidence and 95 percent coverage.

Background Wells

YGWA-47	YGWA-3D	YGWA-18S	YGWA-40
YGWA-1I	YGWA-5D	YGWA-30I	GWA-2
YGWA-1D	YGWA-5I	YGWA-4I	YGWA-14S
YGWA-2I	YGWA-17S	YGWA-21I	YGWA-20S
YGWA-3I	YGWA-18I	YGWA-39	

The confidence and coverage levels for nonparametric tolerance limits are dependent upon the number of background samples. The background limits were then used when determining the groundwater protection standards (GWPS) established under 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §§ 141.62 and 141.66 of this title;
- For the following constituents:
 - Cobalt: 0.006 mg/L
 - Lead: 0.015 mg/L
 - Lithium: 0.040 mg/L
 - Molybdenum: 0.100 mg/L; and
- The background level for constituents where the background level is higher than the MCL or rule identified GWPS.

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

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

Following the above federal and state rules, GWPS have been established for statistical comparison of Appendix IV constituents at AP-2. **Table 6** summarizes the background limit established at each monitoring well for the March and September 2020 sampling events along with the GWPS established under federal and state rules.

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 well/constituent pair was considered to exceed its respective standard only when the entire confidence interval exceeded a GWPS. If there was an exceedance of the established standard, an SSL exceedance was identified.

4.2 Statistical Analysis Results

Appendix III statistical analysis for wells associated with the Site was performed to determine whether constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine whether concentrations statistically exceed the established GWPS. Appendix III and Appendix IV data from the March and September 2020 semiannual events were statistically analyzed in accordance with the Statistical Analysis Plan (Groundwater Stats 2019).

4.2.1 First 2020 Semiannual Monitoring Event

Based on review of the Appendix III statistical analysis from the March 2020 sampling event presented in **Appendix D**, Appendix III constituents 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**.

Statistical analysis of the March 2020 Appendix IV data was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No SSLs were identified. Sanitas™ statistical output data for calculation of site-specific background concentrations (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**.

4.2.2 Second 2020 Semiannual Monitoring Event

Based on review of the Appendix III statistical analysis from the September 2020 sampling event presented in **Appendix D**, Appendix III constituents 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**.

Statistical analysis of the September 2020 Appendix IV data was completed using the GWPS established according to both 40 CFR § 257.95(h) and GAEPD Rule 391-3-4-.10(6)(a). No SSLs were identified. Sanitas™ statistical output data for calculation of site-specific background concentrations (interwell tolerance limits) and confidence intervals for each Appendix IV constituent in downgradient wells are provided in **Appendix D**.

5 MONITORING PROGRAM STATUS

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

6 CONCLUSIONS AND FUTURE ACTIONS

Statistical evaluations of the groundwater monitoring data for the Site identified no exceedance of a GWPS for an Appendix IV constituent during the March and September 2020 semiannual sampling events. The next assessment monitoring scan event for Appendix IV parameters is tentatively scheduled for February 2021.

7 REFERENCES

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TABLES



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

Well ID	Installation Date	Top of Casing Elevation (ft)	Depth to Bottom (ft bTOC)	Bottom Elevation (ft)	Depth to Top of Screen (ft bTOC)	Top of Screen Elevation (ft)	Hydraulic Location / Purpose
Network Wells							
YGWA-1I	5/20/2014	836.60	53.60	783.00	43.30	793.30	Upgradient
YGWA-1D	5/20/2014	837.25	128.85	708.40	78.05	759.20	Upgradient
YGWA-2I	5/20/2014	866.25	63.75	802.50	53.45	812.80	Upgradient
YGWA-3I	5/20/2014	796.55	59.05	737.50	48.85	747.70	Upgradient
YGWA-3D	5/20/2014	796.78	134.18	662.60	83.88	712.90	Upgradient
YGWA-14S	5/20/2014	748.76	34.96	713.80	24.66	724.10	Upgradient
YGWA-30I	9/23/2015	762.58	59.48	703.10	49.18	713.40	Upgradient
YGWC-26S	10/1/2015	716.28	40.18	676.10	29.88	686.40	Downgradient
YGWC-26I	9/30/2015	715.91	69.81	646.10	59.51	656.40	Downgradient
YGWC-27S	10/7/2015	716.52	40.52	676.00	30.22	686.30	Downgradient
YGWC-27I	10/7/2015	716.19	79.99	636.20	69.69	646.50	Downgradient
YGWC-28S	10/5/2015	717.95	44.95	673.00	34.65	683.30	Downgradient
YGWC-28I	10/5/2015	717.93	69.93	648.00	59.63	658.30	Downgradient
YGWC-29I	10/1/2015	717.39	39.59	677.80	29.29	688.10	Downgradient
Non-Network Wells							
PZ-1S	5/20/2014	836.84	36.34	800.50	26.04	810.80	Piezometer
PZ-3S	5/20/2014	796.39	42.39	754.00	32.09	764.30	Piezometer
PZ-13S	5/20/2014	807.79	43.79	764.00	33.49	774.30	Piezometer
PZ-13I	5/20/2014	807.62	59.22	748.40	48.92	758.70	Piezometer
PZ-14I	5/20/2014	749.06	50.86	698.20	40.56	708.50	Piezometer
PZ-25S	9/2/2015	766.60	56.80	709.80	46.50	720.10	Piezometer
PZ-25I	9/3/2015	766.38	84.58	681.80	74.28	692.10	Piezometer
PZ-31S	9/24/2015	738.62	34.72	703.90	24.42	714.02	Piezometer

Notes:

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

Acronyms and Abbreviations:

bTOC = below top of casing

ft = feet

Table 2. Groundwater Sampling Plan
2020 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2

Well ID	Hydraulic Location	Assessment Monitoring	2020 Semiannual Sampling	2020 Semiannual Sampling
		February 10 - 13, 2020	March 17 - 20, 2020	September 23 - 25, 2020
YGWA-1I	Upgradient	Scan	A-03	A-04
YGWA-1D	Upgradient	Scan	A-03	A-04
YGWA-2I	Upgradient	Scan	A-03	A-04
YGWA-3I	Upgradient	Scan	A-03	A-04
YGWA-3D	Upgradient	Scan	A-03	A-04
YGWA-14S	Downgradient	Scan	A-03	A-04
YGWA-30I	Downgradient	Scan	A-03	A-04
YGWC-26S	Downgradient	Scan	A-03	A-04
YGWC-26I	Downgradient	Scan	A-03	A-04
YGWC-27S	Downgradient	Scan	A-03	A-04
YGWC-27I	Downgradient	Scan	A-03	A-04
YGWC-28S	Downgradient	Scan	A-03	A-04
YGWC-28I	Downgradient	Scan	A-03	A-04
YGWC-29I	Downgradient	Scan	A-03	A-04

Notes:

1. Scan = All wells analyzed per Appendix IV.
2. A-XX indicates the Assessment Event Number (Appendix III and Detected Appendix IV).

Table 3A. Summary of Groundwater Elevations - February and March 2020
2020 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)
February 2020				
YGWA-1I	2/10/2020	836.60	37.37	799.23
YGWA-1D	2/10/2020	837.25	43.49	793.76
YGWA-2I	2/10/2020	866.25	45.31	820.94
YGWA-3I	2/10/2020	796.55	52.22	744.33
YGWA-3D	2/11/2020	796.78	30.25	766.53
YGWA-14S	2/11/2020	748.76	15.83	732.93
YGWA-30I	2/11/2020	762.58	40.62	721.96
YGWC-26S	2/10/2020	716.28	19.31	696.97
YGWC-26I	2/10/2020	715.91	21.99	693.92
YGWC-27S	2/10/2020	716.52	24.39	692.13
YGWC-27I	2/10/2020	716.19	24.73	691.46
YGWC-28S	2/10/2020	717.95	21.71	696.24
YGWC-28I	2/10/2020	717.93	21.97	695.96
YGWC-29I	2/10/2020	717.39	24.76	692.63
PZ-01S	2/10/2020	836.84	32.51	804.33
PZ-03S	2/10/2020	796.39	35.73	760.66
PZ-13S	2/10/2020	807.79	35.78	772.01
PZ-13I	2/10/2020	807.62	39.19	768.43
PZ-14I	2/11/2020	749.06	17.20	731.86
PZ-25S	2/11/2020	766.60	35.12	731.48
PZ-25I	2/11/2020	766.38	36.17	730.21
PZ-31S	2/11/2020	738.62	13.91	724.71
March 2020				
YGWA-1I	3/16/2020	836.60	34.18	802.42
YGWA-1D	3/16/2020	837.25	45.52	791.73
YGWA-2I	3/16/2020	866.25	42.94	823.31
YGWA-3I	3/16/2020	796.55	52.25	744.30
YGWA-3D	3/16/2020	796.78	28.98	767.80
YGWA-14S	3/16/2020	748.76	12.76	736.00
YGWA-30I	3/16/2020	762.58	38.07	724.51
YGWC-26S	3/16/2020	716.28	19.71	696.57
YGWC-26I	3/16/2020	715.91	21.82	694.09
YGWC-27S	3/16/2020	716.52	24.02	692.50
YGWC-27I	3/16/2020	716.19	24.23	691.96
YGWC-28S	3/16/2020	717.95	22.14	695.81
YGWC-28I	3/16/2020	717.93	22.37	695.56
YGWC-29I	3/16/2020	717.39	24.64	692.75
PZ-01S	3/16/2020	836.84	29.97	806.87
PZ-03S	3/16/2020	796.39	33.30	763.09
PZ-13S	3/16/2020	807.79	31.98	775.81
PZ-13I	3/16/2020	807.62	36.45	771.17
PZ-14I	3/16/2020	749.06	14.54	734.52
PZ-25S	3/16/2020	766.60	34.63	731.97
PZ-25I	3/16/2020	766.38	35.98	730.40
PZ-31S	3/16/2020	738.62	13.93	724.69

Notes:

* Depth to water recorded from transducer reading on March 17, 2020.
 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 3B. Summary of Groundwater Elevations - September 2020
2020 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)
YGWA-1I	9/21/2020	836.60	36.71	799.89
YGWA-1D	9/21/2020	837.25	48.22	789.03
YGWA-2I	9/21/2020	866.25	44.18	822.07
YGWA-3I	9/21/2020	796.55	53.32	743.23
YGWA-3D	9/21/2020	796.78	23.41	773.37
YGWA-14S	9/21/2020	748.76	17.37	731.39
YGWA-30I	9/21/2020	762.58	48.47	714.11
YGWC-26S	9/21/2020	716.28	25.29	690.99
YGWC-26I	9/21/2020	715.91	26.24	689.67
YGWC-27S	9/21/2020	716.52	30.21	686.31
YGWC-27I	9/21/2020	716.19	30.37	685.82
YGWC-28S	9/21/2020	717.95	26.72	691.23
YGWC-28I	9/21/2020	717.93	28.33	689.60
YGWC-29I	9/21/2020	717.39	27.61	689.78
PZ-01S	9/21/2020	836.84	31.93	804.91
PZ-03S	9/21/2020	796.39	34.24	762.15
PZ-13S	9/21/2020	807.79	35.49	772.30
PZ-13I	9/21/2020	807.62	38.78	768.84
PZ-14I	9/21/2020	749.06	18.38	730.68
PZ-25S	9/21/2020	766.60	36.12	730.48
PZ-25I	9/21/2020	766.38	37.43	728.95
PZ-31S	9/21/2020	738.62	14.37	724.25

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

Equation

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

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

Values Used in Calculation

Value		Source
K _{max} :	3.02E-03 cm/sec 8.57 ft/day	See note 1
K _{min} :	1.00E-06 cm/sec 0.003 ft/day	
K _{avg}	1.50E-04 cm/sec 0.43 ft/day	
i ₁ = 0.047 i ₂ = 0.027 i ₃ = 0.020 i _{avg} = 0.031	unitless unitless unitless unitless	Hydraulic gradient from: PZ-01S to YGWA-14S PZ-13S to YGWC-28 YGWA-14 to PZ-31S Average
n _e = 0.20	unitless	See note 2

Minimum Linear Flow Velocity

$$V_{min} = \frac{(0.003)(0.031)}{0.20}$$

$$V_{min} = 0.0005 \text{ ft/day, or } 1 \text{ ft/year}$$

Maximum Linear Flow Velocity

$$V_{max} = \frac{(8.57)(0.031)}{0.20}$$

$$V_{max} = 1.3 \text{ ft/day, or } 485 \text{ ft/year}$$

Average Linear Flow Velocity

$$V_{avg} = \frac{(0.43)(0.031)}{0.2}$$

$$V_{avg} = 0.07 \text{ ft/day, or } 24 \text{ ft/year}$$

Notes:

1. Slug tests performed by Atlantic Coast Consulting, Inc. at AP-2 (2014-2017)
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1996).

Equation

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

where: V = groundwater velocity
 K = hydraulic conductivity
 dh/dl = 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	
i ₁ = 0.028	unitless	Hydraulic gradient from: PZ-01S to YGWA-14S PZ-13S to YGWC-28 YGWA-14 to PZ-31S Average
i ₂ = 0.055	unitless	
i ₃ = 0.012	unitless	
i _{avg} = 0.032	unitless	
n _e = 0.20	unitless	See note 2

Minimum Linear Flow Velocity

$$V_{min} = \frac{(0.003) (0.032)}{0.20}$$

$$V_{min} = 0.0005 \text{ ft/day, or } 1 \text{ ft/year}$$

Maximum Linear Flow Velocity

$$V_{max} = \frac{(8.57) (0.032)}{0.20}$$

$$V_{max} = 1.4 \text{ ft/day, or } 500 \text{ ft/year}$$

Average Linear Flow Velocity

$$V_{avg} = \frac{(0.43)(0.032)}{0.2}$$

$$V_{avg} = 0.07 \text{ ft/day, or } 25 \text{ ft/year}$$

1. Slug tests performed by Atlantic Coast Consulting, Inc. (2017)
2. Default value recommended by USEPA for silty sand-type soil (USEPA 1996).

Table 5. Groundwater Analytical Data - 2020
 2020 Annual Groundwater Monitoring and Corrective Action Report
 Georgia Power Company
 Plant Yates - AP-2

Analyte	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-2I	YGWA-2I	YGWA-2I	
	2/10/2020	3/18/2020	9/23/2020	2/10/2020	3/19/2020	9/23/2020	2/11/2020	3/19/2020	9/23/2020	
Appendix III	pH	6.10	6.19	6.01	7.20	7.03	7.15	7.38	7.22	7.22
	Boron	--	0.0087 J	< 0.0052	--	0.0085 J	< 0.0052	--	0.0073 J	< 0.0052
	Calcium	--	2.1	1.8	--	15.0	14.1	--	27.4	26.3
	Chloride	--	1.4	1.2	--	1.1	0.99 J	--	0.97 J	0.88 J
	Fluoride	< 0.050	< 0.050	< 0.050	0.061 J	0.064 J	0.058 J	0.075 J	0.093 J	0.080 J
	Sulfate	--	5.3	3.4	--	10	8.1	--	12.4	11.8
	Total Dissolved Solids	--	35.0	15.0	--	116	108	--	148	161
Appendix IV	Antimony	< 0.00027	0.00040 JB	< 0.00028	0.00088 J	< 0.00027	< 0.00028	0.00036 J	0.00030 JB	< 0.00028
	Arsenic	0.00050 JB	< 0.00035	< 0.00078	0.0026 JB	0.00095 J	0.0011 J	0.0044 JB	0.00066 J	0.0010 J
	Barium	0.0091 J	0.0084 J	0.0079 J	0.0066 J	0.0076 J	0.0068 J	0.0036 J	0.0036 J	0.0039 J
	Beryllium	< 0.000074	< 0.000074	< 0.000046	< 0.000074	< 0.000074	< 0.000046	< 0.000074	< 0.000074	< 0.000046
	Cadmium	< 0.00011	< 0.00011	< 0.00012	< 0.00011	< 0.00011	< 0.00012	< 0.00011	< 0.00011	< 0.00012
	Chromium	< 0.00039	0.00044 J	0.00058 J	0.00042 J	0.00084 J	0.00062 J	< 0.00039	0.00048 J	< 0.00055
	Cobalt	0.0016 J	0.00087 J	0.0013 J	< 0.00030	< 0.00030	< 0.00038	< 0.00030	< 0.00030	< 0.00038
	Lead	< 0.000046	< 0.000046	0.00021 J	0.000049 J	0.00012 J	< 0.000036	< 0.000046	< 0.000046	0.0011 J
	Lithium	0.0023 J	0.0024 J	0.0024 J	0.011 J	0.013 J	0.014 J	0.0012 J	0.0022 J	0.0016 J
	Mercury	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--	--
	Molybdenum	0.0062 J	0.0056 J	0.0059 J	0.0087 J	0.0088 J	0.0080 J	0.0057 J	0.0046 J	0.0071 J
	Combined Radium - 226/228	1.25 U	0.458 U	0.00884 U	1.41	1.1	1.35 U	0.817 U	0.715 U	0.565 U
	Selenium	< 0.0013	< 0.0013	< 0.0016	< 0.0013	< 0.0013	< 0.0016	< 0.0013	< 0.0013	< 0.0016
	Thallium	0.000055 J	< 0.000052	< 0.00014	< 0.000052	< 0.000052	< 0.00014	< 0.000052	< 0.000052	< 0.00014

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Analyte	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-14S	YGWA-14S	YGWA-14S	
	2/11/2020	3/19/2020	9/23/2020	2/12/2020	3/19/2020	9/23/2020	2/12/2020	3/18/2020	9/25/2020	
Appendix III	pH	7.09	7.31	7.37	7.83	7.65	7.57	5.48	5.38	5.44
	Boron	--	0.0053 J	0.0073 J	--	0.0073 J	0.012 J	--	0.033 J	0.020 J
	Calcium	--	21.9	23.6	--	31.5	28.6	--	1.1	1.3
	Chloride	--	1.1	1.0	--	1.2	1.1	--	5.4	5.3
	Fluoride	0.094 J	0.11 J	0.098 J	0.40	0.51	0.47	< 0.050	< 0.050	< 0.050
	Sulfate	--	12.9	16.8	--	9.0	6.9	--	9.9	6.1
	Total Dissolved Solids	--	148 D6	155	--	146	157	--	57	54.0
Appendix IV	Antimony	< 0.00027	< 0.00027B	< 0.00028	< 0.00027	0.00064 JB	< 0.00028	0.00028 J	< 0.00027	< 0.00028
	Arsenic	0.0041 JB	< 0.00035	< 0.00078	0.0038 JB	< 0.00035	< 0.00078	< 0.00035	< 0.00035	< 0.00078
	Barium	0.0031 J	0.0029 J	0.0039 J	0.0062 J	0.0072 J	0.0051 J	0.0076 J	0.0080 J	0.0073 J
	Beryllium	< 0.000074	< 0.000074	0.000059 J	< 0.000074	< 0.000074	< 0.000046	0.00023 J	0.00021 J	0.00018 J
	Cadmium	< 0.00011	< 0.00011	< 0.00012	< 0.00011	< 0.00011	< 0.00012	< 0.00011	< 0.00011	< 0.00012
	Chromium	< 0.00039	< 0.00039	< 0.00055	< 0.00039	< 0.00039	< 0.00055	< 0.00065 J	< 0.00039	< 0.00055
	Cobalt	< 0.00030	< 0.00030	< 0.00038	< 0.00030	< 0.00030	< 0.00038	< 0.00030	< 0.00030	< 0.00038
	Lead	< 0.000046	< 0.000046	0.00015 J	< 0.000046	0.00017 J	< 0.000036	< 0.000046	< 0.000046	< 0.000036
	Lithium	0.013 J	0.014 J	0.013 J	0.019 J	0.023 J	0.023 J	< 0.00078	< 0.00078	< 0.00081
	Mercury	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--	--
	Molybdenum	0.0030 J	0.0043 J	0.010	0.013	0.013	0.012	< 0.00095	< 0.00095	< 0.00069
	Combined Radium - 226/228	1.85	2.2	1.14 U	3.87	3.96	4.14	1.11 U	0.207 U	0.603 U
	Selenium	< 0.0013	< 0.0013	< 0.0016	< 0.0013	< 0.0013	< 0.0016	< 0.0013	0.0015 J	< 0.0016
Thallium	< 0.000052	< 0.000052	0.00016 J	< 0.000052	< 0.000052	< 0.00014	0.000089 J	< 0.000052	< 0.00014	

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Analyte	YGWA-30I	YGWA-30I	YGWA-30I	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26I	YGWC-26I	YGWC-26I	
	2/12/2020	3/19/2020	9/24/2020	2/13/2020	3/19/2020	9/24/2020	2/13/2020	3/20/2020	9/24/2020	
Appendix III	pH	5.80	6.00	5.67	5.29	5.46	5.46	5.93	5.94	5.86
	Boron	--	0.0052 J	0.0075 J	--	0.73	0.74	--	0.94	0.76
	Calcium	--	1.2	1.1	--	13.0	11.3	--	17.2	16.9
	Chloride	--	1.8	1.5	--	15.4	15.7	--	17.7	17.1
	Fluoride	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	< 0.050	0.071 J	0.053 J
	Sulfate	--	1.6	0.69 J	--	99.4	92.3	--	84.7	85.6
	Total Dissolved Solids	--	47.0	51.0	--	194	171	--	211	212
Appendix IV	Antimony	< 0.00027	< 0.00027	< 0.00028	0.0016 J	0.0017 JB	< 0.00028	0.00052 J	0.00059 JB	< 0.00028
	Arsenic	0.0032 JB	< 0.00035	< 0.00078	< 0.00035	< 0.00035	< 0.00078	< 0.00035	< 0.00035	< 0.00078
	Barium	0.0073 J	0.0074 J	0.0062 J	0.025	0.027	0.025	0.060	0.063	0.058
	Beryllium	< 0.000074	< 0.000074	< 0.000046	0.00015 J	0.00012 J	0.000085 J	0.00014 J	< 0.000074	< 0.000046
	Cadmium	< 0.00011	< 0.00011	< 0.00012	< 0.00011	< 0.00011	< 0.00012	< 0.00011	< 0.00011	< 0.00012
	Chromium	< 0.00039	< 0.00039	< 0.00055	0.0012 J	0.0018 J	0.00068 J	0.00044 J	0.00093 J	0.00067 J
	Cobalt	0.014	0.014	0.0064	0.0019 J	0.0021 J	0.0011 J	< 0.00030	< 0.00030	< 0.00038
	Lead	< 0.000046	< 0.000046	< 0.000036	< 0.000046	0.00010 J	0.000064 J	< 0.000046	0.000071 J	< 0.000036
	Lithium	0.0013 J	0.0012 J	0.0011 J	< 0.00078	< 0.00078	< 0.00081	0.0073 J	0.0072 J	0.0074 J
	Mercury	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--	--
	Molybdenum	< 0.00095	< 0.00095	< 0.00069	< 0.00095	< 0.00095	< 0.00069	< 0.00095	< 0.00095	< 0.00069
	Combined Radium - 226/228	0.301 U	1	0.684 U	0.178	0.796 U	1.14 U	1.86	2.03	1.47 U
	Selenium	< 0.0013	< 0.0013	< 0.0016	< 0.0013	< 0.0013	< 0.0016	0.0019 J	0.0022 J	0.0031 J
Thallium	< 0.000052	< 0.000052	< 0.00014	0.000057 J	0.000055 J	< 0.00014	< 0.000052	< 0.000052	< 0.00014	

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Analyte	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-271	YGWC-271	YGWC-271	YGWC-28S	YGWC-28S	YGWC-28S	
	2/13/2020	3/20/2020	9/24/2020	2/13/2020	3/20/2020	9/24/2020	2/13/2020	3/19/2020	9/24/2020	
Appendix III	pH	6.31	6.18	6.27	6.40	6.32	6.36	6.53	6.98	6.53
	Boron	--	1.4	1.3	--	2.1	2.3	--	2.5	2.6
	Calcium	--	42.1	38.6	--	30.3	27.9	--	30.4	30.8
	Chloride	--	17.7	17.0	--	13.0	13.3	--	18.1	18.0
	Fluoride	0.11 J	0.097 J	0.092 J	< 0.050	< 0.050	0.059 J	0.18 J	0.16 J	0.16
	Sulfate	--	21.1	16.6	--	5.2	3.0	--	1.7	0.99 J
	Total Dissolved Solids	--	182	185	--	195	186	--	202	226
Appendix IV	Antimony	< 0.00027	0.00030 JB	< 0.00028	< 0.00027	0.00033 JB	< 0.00028	< 0.00027	< 0.00027	< 0.00028
	Arsenic	< 0.00035	< 0.00035	< 0.00078	0.00055 J	0.00042 J	< 0.00078	0.00065 J	0.00051 J	< 0.00078
	Barium	0.097	0.095	0.087	0.063	0.062	0.069	0.21	0.20	0.18
	Beryllium	< 0.000074	< 0.000074	< 0.000046	0.00021 J	0.00023 J	0.00019 J	< 0.000074	< 0.000074	< 0.000046
	Cadmium	< 0.00011	< 0.00011	< 0.00012	< 0.00011	< 0.00011	< 0.00012	< 0.00011	< 0.00011	< 0.00012
	Chromium	< 0.00039	0.00050 J	0.00057 J	< 0.00039	< 0.00039	< 0.00055	< 0.00039	0.00049 J	0.00060 J
	Cobalt	0.0026 J	0.0022 J	0.0021 J	0.012	0.014	0.0076	0.00092 J	0.00093 J	0.00085 J
	Lead	0.000062 J	0.000085 J	0.00037 J	< 0.000046	< 0.000046	< 0.000036	0.000054 J	0.000075 J	0.000063 J
	Lithium	< 0.00078	< 0.00078	< 0.00081	0.0079 J	0.0091 J	0.0075 J	< 0.00078	< 0.00078	< 0.00081
	Mercury	< 0.00014	--	--	< 0.00014	--	--	< 0.00014	--	--
	Molybdenum	< 0.00095	< 0.00095	< 0.00069	0.0014 J	0.0014 J	0.0015 J	< 0.00095	< 0.00095	0.00075 J
	Combined Radium - 226/228	0.961 U	1.50	1.49	4.48	4.13	3.42	1.04	1.01 U	1.25 U
	Selenium	< 0.0013	< 0.0013	< 0.0016	< 0.0013	< 0.0013	< 0.0016	< 0.0013	< 0.0013	< 0.0016
Thallium	0.00010 J	0.00011 J	< 0.00014	< 0.000052	< 0.000052	< 0.00014	< 0.000052	< 0.000052	< 0.00014	

Notes on last page

Table 5. Groundwater Analytical Data - 2020
 2020 Annual Groundwater Monitoring and Corrective Action Report
 Georgia Power Company
 Plant Yates - AP-2

Analyte	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-29I	YGWC-29I	YGWC-29I	
	2/13/2020	3/19/2020	9/24/2020	2/13/2020	3/20/2020	9/24/2020	
Appendix III	pH	6.49	7.01	6.41	6.32	6.17	6.20
	Boron	--	2.4	2.1	--	0.80	0.84
	Calcium	--	37.3	34.3	--	12.7	12.4
	Chloride	--	16.0	15.1	--	11.3	10.9
	Fluoride	0.14 J	0.070 J	0.073 J	0.053 J	0.057 J	0.060 J
	Sulfate	--	9.1	7.2	--	33.0	26.2
	Total Dissolved Solids	--	212	209	--	137	133
Appendix IV	Antimony	< 0.00027	< 0.00027	< 0.00028	< 0.00027	< 0.00027	0.0013 J
	Arsenic	< 0.00035	< 0.00035	< 0.00078	< 0.00035	< 0.00035	< 0.00078
	Barium	0.089	0.089	0.079	0.053	0.057	0.056
	Beryllium	< 0.000074	< 0.000074	< 0.000046	< 0.000074	< 0.000074	< 0.000046
	Cadmium	0.00013 J	0.00016 J	0.00027 J	0.00018 J	0.00022 J	0.00033 J
	Chromium	0.00047 J	< 0.00039	< 0.00055	< 0.00039	< 0.00039	< 0.00055
	Cobalt	< 0.00030	< 0.00030	< 0.00038	< 0.00030	< 0.00030	< 0.00038
	Lead	< 0.000046	< 0.000046	< 0.000036	< 0.000046	< 0.000046	0.000095 J
	Lithium	0.0069 J	0.0070 J	0.0065 J	0.0057 J	0.0051 J	0.0050 J
	Mercury	< 0.00014	--	--	< 0.00014	--	--
	Molybdenum	0.0013 J	0.0014 J	0.0012 J	< 0.00095	< 0.00095	< 0.00069
	Combined Radium - 226/228	1.12 U	0.913 U	0.470 U	0.806 U	1.42	1.44 U
	Selenium	< 0.0013	< 0.0013	< 0.0016	< 0.0013	< 0.0013	< 0.0016
Thallium	< 0.000052	< 0.000052	< 0.00014	< 0.000052	< 0.000052	< 0.00014	

Notes on last page

Notes:

1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
 2. Appendix III = Indicator parameters evaluated during Detection Monitoring.
 3. Appendix IV = Parameters evaluated during Assessment Monitoring.
- Not analyzed for this constituent.
< Analyte was not detected above the laboratory method detection limit (MDL).

Laboratory Qualifiers:

- B = Analyte was detected in associated method blank.
D6 = The precision between the sample and sample duplicate exceeded laboratory control limits.
J = Estimated concentration above the method detection limit and below the reporting limit.
U - the substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not produce a reliable value. Therefore, the value followed by U is qualified by the laboratory as estimated.

**Table 6. Background Levels and Groundwater Protection Standards
2020 Annual Groundwater Monitoring and Corrective Action Report
Georgia Power Company
Plant Yates - AP-2**

Constituent	Units	Background	Federal GWPS	State GWPS
March 2020				
Antimony	mg/L	0.003	0.006	0.006
Arsenic	mg/L	0.005	0.010	0.010
Barium	mg/L	0.012	2	2
Beryllium	mg/L	0.003	0.004	0.004
Cadmium	mg/L	0.0025	0.005	0.005
Chromium	mg/L	0.010	0.100	0.100
Cobalt	mg/L	0.035	0.035	0.035
Combined Radium - 226/228	pCi/L	4.1	5	5
Fluoride	mg/L	0.680	4	4
Lead	mg/L	0.005	0.015	0.005
Lithium	mg/L	0.030	0.040	0.030
Mercury	mg/L	0.0005	0.002	0.002
Molybdenum	mg/L	0.014	0.100	0.014
Selenium	mg/L	0.010	0.050	0.050
Thallium	mg/L	0.001	0.002	0.002
September 2020				
Antimony	mg/L	0.0047	0.006	0.006
Arsenic	mg/L	0.005	0.010	0.010
Barium	mg/L	0.071	2	2
Beryllium	mg/L	0.003	0.004	0.004
Cadmium	mg/L	0.0025	0.005	0.005
Chromium	mg/L	0.010	0.100	0.100
Cobalt	mg/L	0.035	0.035	0.035
Fluoride	mg/L	0.680	4	4
Lead	mg/L	0.005	0.015	0.005
Lithium	mg/L	0.030	0.040	0.030
Mercury	mg/L	0.0005	0.002	0.002
Molybdenum	mg/L	0.014	0.100	0.014
Selenium	mg/L	0.010	0.050	0.050
Thallium	mg/L	0.001	0.002	0.002
Combined Radium - 226/228	pCi/L	6.9	6.9	6.9

Notes:

1. Site background: Tolerance limits calculated from pooled upgradient well data.
2. Federal GWPS = Groundwater Protection Standard per 40 CFR §257.95(h).
3. The background tolerance limit (TL) used to evaluate the cobalt State GWPS is greater than the federally promulgated level of 0.006 mg/L.

Acronyms and Abbreviations:

MCL = Maximum Contaminant Level

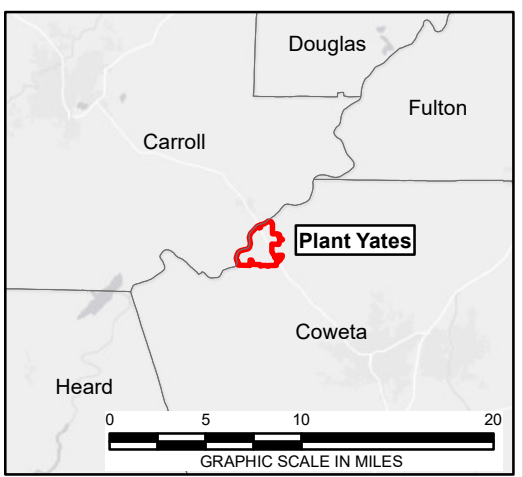
mg/L = milligrams per liter

pCi/L = picocuries per liter

FIGURES



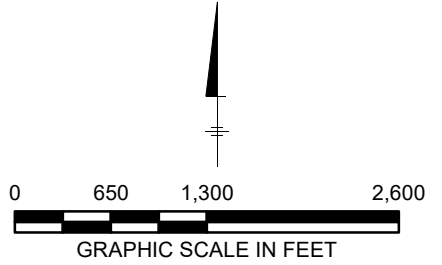
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LEGEND

- APPROXIMATE PROPERTY BOUNDARY
- PERMITTED UNIT BOUNDARY

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET

Georgia Power
PLANT YATES
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SITE LOCATION MAP

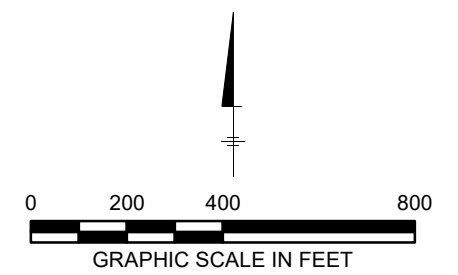
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for natural and
built assets

FIGURE
1



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

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

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 PLANT YATES
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 CORRECTIVE ACTION REPORT – 2020

WELL LOCATION MAP

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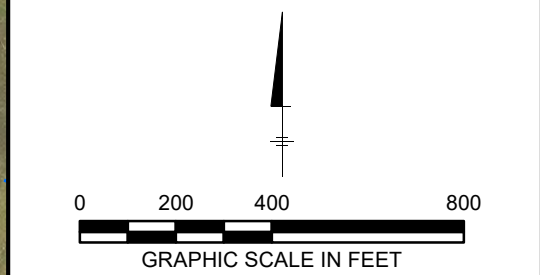


LEGEND


- 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
- PERMITTED UNIT BOUNDARY
- APPROXIMATE POTENTIOMETRIC CONTOUR (FEET) DASHED WHERE INFERRED
- GROUNDWATER FLOW DIRECTION

736.01 GROUNDWATER ELEVATION (FEET)

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE
GEORGIA WEST FIPS 1002 FEET



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**GROUNDWATER ELEVATION MAP
FEBRUARY 2020**




FIGURE
3



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
- PERMITTED UNIT BOUNDARY
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 4. AERIAL IMAGE SOURCES: NOVEMBER 11, 2020 IMAGERY FLOWN AND PROCESSED BY SAM LLC; NATIONAL AGRICULTURE IMAGERY PROGRAM (NAIP) 2019 IMAGERY.
 5. ELEVATION IS PRESENTED IN U.S. SURVEY FEET (NAVD 1988).

GRAPHIC SCALE IN FEET

COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

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GROUNDWATER ELEVATION MAP
 MARCH 2020

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FIGURE
4

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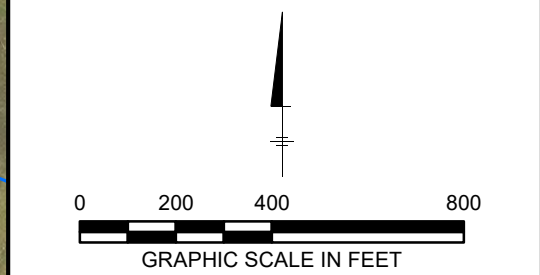


LEGEND

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

736.01 GROUNDWATER ELEVATION (FEET)

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



COORDINATE SYSTEM: NAD 1983 STATEPLANE
 GEORGIA WEST FIPS 1002 FEET

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**GROUNDWATER ELEVATION MAP
 SEPTEMBER 2020**

FIGURE
5

APPENDIX A

Field Sampling Forms (February, March, and September 2020)



Low-Flow Test Report:

Test Date / Time: 2/13/2020 11:01:59 AM

Project: Plant Yates - Ash Pond 2

Operator Name: Hunter Auld

Location Name: YGWC-26I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 59 ft Total Depth: 69.71 ft Initial Depth to Water: 21.15 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 64 ft Estimated Total Volume Pumped: 3.6 liter Flow Cell Volume: 90 ml Final Flow Rate: 120 ml/min Final Draw Down: 1.8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
--	---	--

Test Notes:

Sampled at 1130 on 2-13-20.

Weather Conditions:

Cloudy, 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/13/2020 11:01 AM	00:00	5.82 pH	19.90 °C	0.00 µS/cm	8.80 mg/L		78.5 mV	21.15 ft	120.00 ml/min
2/13/2020 11:06 AM	05:00	6.34 pH	17.72 °C	235.22 µS/cm	1.33 mg/L	2.00 NTU	25.7 mV	21.30 ft	120.00 ml/min
2/13/2020 11:11 AM	10:00	5.96 pH	18.21 °C	233.03 µS/cm	0.49 mg/L	1.60 NTU	71.9 mV	21.30 ft	120.00 ml/min
2/13/2020 11:16 AM	15:00	5.94 pH	18.34 °C	232.59 µS/cm	0.37 mg/L	1.00 NTU	70.1 mV	21.30 ft	120.00 ml/min
2/13/2020 11:21 AM	20:00	5.93 pH	18.40 °C	233.73 µS/cm	0.29 mg/L	1.20 NTU	96.6 mV	21.30 ft	120.00 ml/min
2/13/2020 11:26 AM	25:00	5.93 pH	18.44 °C	235.44 µS/cm	0.23 mg/L	1.50 NTU	75.5 mV	21.30 ft	120.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 2/13/2020 10:11:28 AM

Project: Plant Yates - Ash Pond 2

Operator Name: Hunter Auld

Location Name: YGWC-26S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30 ft Total Depth: 40.26 ft Initial Depth to Water: 18.56 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35 ft Estimated Total Volume Pumped: 6.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 13.7 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
--	--	--

Test Notes:

Sampled at 1040 on 2-13-20. Extra rad.

Weather Conditions:

Cloudy, 60s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/13/2020 10:11 AM	00:00	5.28 pH	18.17 °C	231.93 µS/cm	3.00 mg/L		152.7 mV	18.56 ft	150.00 ml/min
2/13/2020 10:16 AM	05:00	5.24 pH	17.96 °C	222.17 µS/cm	2.30 mg/L	1.90 NTU	121.4 mV	19.60 ft	150.00 ml/min
2/13/2020 10:21 AM	10:00	5.25 pH	18.02 °C	219.79 µS/cm	1.96 mg/L	1.90 NTU	185.3 mV	19.60 ft	150.00 ml/min
2/13/2020 10:26 AM	15:00	5.26 pH	18.02 °C	220.01 µS/cm	1.83 mg/L	1.80 NTU	187.6 mV	19.70 ft	150.00 ml/min
2/13/2020 10:31 AM	20:00	5.28 pH	18.03 °C	220.52 µS/cm	1.81 mg/L	1.80 NTU	186.6 mV	19.70 ft	150.00 ml/min
2/13/2020 10:36 AM	25:00	5.29 pH	18.08 °C	220.94 µS/cm	1.72 mg/L	1.70 NTU	186.1 mV	19.70 ft	150.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 2/13/2020 9:49:41 AM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

Location Name: YGWC-27I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 69 ft Total Depth: 79.84 ft Initial Depth to Water: 24.7 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 75 ft Estimated Total Volume Pumped: 4.8 L Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 0 ft	Instrument Used: Aqua TROLL 400 Serial Number: 714302
---	---	--

Test Notes:

Sample time 1025

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/13/2020 9:49 AM	00:00	6.51 pH	18.45 °C	283.82 µS/cm	1.08 mg/L	3.20 NTU	-81.6 mV	24.70 ft	160.00 ml/min
2/13/2020 9:54 AM	05:00	6.47 pH	18.13 °C	284.37 µS/cm	0.64 mg/L	2.30 NTU	-89.3 mV	24.70 ft	160.00 ml/min
2/13/2020 9:59 AM	10:00	6.45 pH	18.03 °C	286.84 µS/cm	0.49 mg/L	1.50 NTU	-95.3 mV	24.70 ft	160.00 ml/min
2/13/2020 10:04 AM	15:00	6.44 pH	18.06 °C	288.90 µS/cm	0.37 mg/L	1.30 NTU	-96.5 mV	24.70 ft	160.00 ml/min
2/13/2020 10:09 AM	20:00	6.42 pH	18.07 °C	288.37 µS/cm	0.32 mg/L	0.90 NTU	-88.1 mV	24.70 ft	160.00 ml/min
2/13/2020 10:14 AM	25:00	6.41 pH	18.03 °C	286.12 µS/cm	0.30 mg/L	0.80 NTU	-93.1 mV	24.70 ft	160.00 ml/min
2/13/2020 10:19 AM	30:00	6.40 pH	17.98 °C	286.99 µS/cm	0.29 mg/L	0.60 NTU	-85.3 mV	24.70 ft	160.00 ml/min

Samples

Sample ID:	Description:
------------	--------------

Low-Flow Test Report:

Test Date / Time: 2/13/2020 10:52:26 AM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

Location Name: YGWC-27S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 30.2 ft Total Depth: 40.26 ft Initial Depth to Water: 23.34 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 35.2 ft Estimated Total Volume Pumped: 9.9 liter Flow Cell Volume: 90 ml Final Flow Rate: 180 ml/min Final Draw Down: 1 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
--	---	--

Test Notes:

Sample time 1150

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/13/2020 10:52 AM	00:00	6.32 pH	18.45 °C	360.28 µS/cm	3.47 mg/L	5.60 NTU	-28.1 mV	23.40 ft	180.00 ml/min
2/13/2020 10:57 AM	05:00	6.30 pH	18.51 °C	365.42 µS/cm	3.06 mg/L	5.40 NTU	-16.1 mV	23.40 ft	180.00 ml/min
2/13/2020 11:02 AM	10:00	6.30 pH	18.47 °C	377.92 µS/cm	1.87 mg/L	6.10 NTU	-38.1 mV	23.40 ft	180.00 ml/min
2/13/2020 11:07 AM	15:00	6.31 pH	18.46 °C	375.35 µS/cm	3.91 mg/L	4.30 NTU	-40.6 mV	23.40 ft	180.00 ml/min
2/13/2020 11:12 AM	20:00	6.32 pH	18.46 °C	338.22 µS/cm	1.59 mg/L	5.60 NTU	-42.2 mV	23.40 ft	180.00 ml/min
2/13/2020 11:17 AM	25:00	6.29 pH	18.59 °C	361.49 µS/cm	1.65 mg/L	5.00 NTU	-42.9 mV	23.40 ft	180.00 ml/min
2/13/2020 11:22 AM	30:00	6.32 pH	18.52 °C	365.88 µS/cm	1.66 mg/L	5.00 NTU	-45.0 mV	23.40 ft	180.00 ml/min
2/13/2020 11:27 AM	35:00	6.31 pH	18.43 °C	377.41 µS/cm	1.96 mg/L	4.10 NTU	-45.3 mV	23.40 ft	180.00 ml/min
2/13/2020 11:32 AM	40:00	6.32 pH	18.43 °C	315.95 µS/cm	1.46 mg/L	4.00 NTU	-45.8 mV	23.40 ft	180.00 ml/min
2/13/2020 11:37 AM	45:00	6.33 pH	18.45 °C	381.25 µS/cm	1.82 mg/L	3.80 NTU	-48.0 mV	23.40 ft	180.00 ml/min
2/13/2020 11:42 AM	50:00	6.32 pH	18.49 °C	380.16 µS/cm	1.46 mg/L	3.50 NTU	-47.5 mV	23.40 ft	180.00 ml/min
2/13/2020 11:47 AM	55:00	6.31 pH	18.56 °C	383.43 µS/cm	0.28 mg/L	3.10 NTU	-47.8 mV	23.40 ft	180.00 ml/min

Samples

Sample ID:	Description:
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Created using VuSitu from In-Situ, Inc.

Low-Flow Test Report:

Test Date / Time: 2/13/2020 2:07:16 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

Location Name: YGWC-28I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 59.9 ft Total Depth: 69.89 ft Initial Depth to Water: 21.15 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 64.9 ft Estimated Total Volume Pumped: 5.2 liter Flow Cell Volume: 90 ml Final Flow Rate: 130 ml/min Final Draw Down: 8 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time: 1450

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/13/2020 2:07 PM	00:00	6.59 pH	19.33 °C	306.47 µS/cm	4.59 mg/L	1.40 NTU	-62.3 mV	21.70 ft	130.00 ml/min
2/13/2020 2:12 PM	05:00	6.52 pH	18.47 °C	332.35 µS/cm	3.39 mg/L	1.10 NTU	-41.0 mV	21.80 ft	130.00 ml/min
2/13/2020 2:17 PM	10:00	6.54 pH	18.52 °C	357.05 µS/cm	3.39 mg/L	1.30 NTU	-22.8 mV	21.80 ft	130.00 ml/min
2/13/2020 2:22 PM	15:00	6.55 pH	18.47 °C	354.96 µS/cm	4.08 mg/L	1.60 NTU	-40.4 mV	21.80 ft	130.00 ml/min
2/13/2020 2:27 PM	20:00	6.50 pH	17.67 °C	357.40 µS/cm	1.56 mg/L	0.80 NTU	-11.0 mV	21.80 ft	130.00 ml/min
2/13/2020 2:32 PM	25:00	6.49 pH	18.25 °C	351.63 µS/cm	1.92 mg/L	0.90 NTU	8.1 mV	21.80 ft	130.00 ml/min
2/13/2020 2:37 PM	30:00	6.50 pH	18.12 °C	360.01 µS/cm	1.58 mg/L	0.80 NTU	-5.1 mV	21.80 ft	130.00 ml/min
2/13/2020 2:42 PM	35:00	6.50 pH	17.95 °C	357.62 µS/cm	1.53 mg/L	0.70 NTU	-34.1 mV	21.80 ft	130.00 ml/min
2/13/2020 2:47 PM	40:00	6.49 pH	17.80 °C	356.66 µS/cm	1.55 mg/L	0.70 NTU	-35.8 mV	21.80 ft	130.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/13/2020 12:33:55 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

Location Name: YGWC-28S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 34.8 ft Total Depth: 44.85 ft Initial Depth to Water: 21.08 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 39.8 ft Estimated Total Volume Pumped: 15 liter Flow Cell Volume: 90 ml Final Flow Rate: 215 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time: 1345

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/13/2020 12:33 PM	00:00	6.55 pH	18.40 °C	349.18 µS/cm	4.70 mg/L	18.10 NTU	-132.7 mV	21.60 ft	215.00 ml/min
2/13/2020 12:38 PM	05:00	6.56 pH	18.88 °C	375.87 µS/cm	2.82 mg/L	10.10 NTU	-175.6 mV	21.60 ft	215.00 ml/min
2/13/2020 12:43 PM	10:00	6.56 pH	18.92 °C	378.86 µS/cm	6.92 mg/L	8.60 NTU	-178.9 mV	21.60 ft	215.00 ml/min
2/13/2020 12:48 PM	15:00	6.54 pH	18.74 °C	381.47 µS/cm	6.67 mg/L	8.50 NTU	-179.3 mV	21.60 ft	215.00 ml/min
2/13/2020 12:53 PM	20:00	6.55 pH	18.70 °C	379.12 µS/cm	6.47 mg/L	9.10 NTU	-177.2 mV	21.60 ft	215.00 ml/min
2/13/2020 12:58 PM	25:00	6.52 pH	18.84 °C	371.88 µS/cm	1.51 mg/L	9.00 NTU	-177.2 mV	21.60 ft	215.00 ml/min
2/13/2020 1:03 PM	30:00	6.52 pH	18.92 °C	381.69 µS/cm	3.39 mg/L	9.00 NTU	-175.3 mV	21.60 ft	215.00 ml/min
2/13/2020 1:08 PM	35:00	6.51 pH	18.87 °C	382.76 µS/cm	4.31 mg/L	7.80 NTU	-172.8 mV	21.60 ft	215.00 ml/min
2/13/2020 1:13 PM	40:00	6.51 pH	18.78 °C	382.58 µS/cm	5.36 mg/L	6.50 NTU	-162.6 mV	21.60 ft	215.00 ml/min
2/13/2020 1:18 PM	45:00	6.50 pH	18.76 °C	386.71 µS/cm	2.40 mg/L	5.80 NTU	-172.5 mV	21.60 ft	215.00 ml/min
2/13/2020 1:23 PM	50:00	6.51 pH	18.76 °C	383.69 µS/cm	3.02 mg/L	5.60 NTU	-168.2 mV	21.60 ft	215.00 ml/min
2/13/2020 1:28 PM	55:00	6.51 pH	18.78 °C	380.96 µS/cm	4.44 mg/L	5.50 NTU	-160.5 mV	21.60 ft	215.00 ml/min
2/13/2020 1:33 PM	01:00:00	6.55 pH	18.87 °C	409.28 µS/cm	0.32 mg/L	4.20 NTU	-173.8 mV	21.60 ft	215.00 ml/min

2/13/2020 1:38 PM	01:05:00	6.54 pH	18.82 °C	408.42 µS/cm	0.18 mg/L	4.50 NTU	-162.6 mV	21.60 ft	215.00 ml/min
2/13/2020 1:43 PM	01:10:00	6.53 pH	18.83 °C	408.21 µS/cm	0.16 mg/L	4.30 NTU	-162.5 mV	21.60 ft	215.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/13/2020 12:35:15 PM

Project: Plant Yates - Ash Pond 2

Operator Name: Hunter Auld

Location Name: YGWC-29I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 29 ft Total Depth: 39.46 ft Initial Depth to Water: 23.93 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 34 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 100 ml/min Final Draw Down: 9.2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714293
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Test Notes:

Sampled at 1302 on 2-13-20.

Weather Conditions:

Cloudy, 50s.

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 300	+/- 0.3	
2/13/2020 12:35 PM	00:00	6.94 pH	17.22 °C	186.32 µS/cm	7.22 mg/L		54.1 mV	23.93 ft	100.00 ml/min
2/13/2020 12:40 PM	05:00	6.42 pH	17.89 °C	190.71 µS/cm	3.53 mg/L	1.40 NTU	66.9 mV	24.30 ft	100.00 ml/min
2/13/2020 12:45 PM	10:00	6.33 pH	18.00 °C	188.29 µS/cm	1.82 mg/L	1.20 NTU	95.7 mV	24.30 ft	100.00 ml/min
2/13/2020 12:50 PM	15:00	6.31 pH	17.69 °C	189.02 µS/cm	1.03 mg/L	0.90 NTU	100.2 mV	24.50 ft	100.00 ml/min
2/13/2020 12:55 PM	20:00	6.32 pH	17.78 °C	189.99 µS/cm	1.00 mg/L	0.90 NTU	101.7 mV	24.60 ft	100.00 ml/min
2/13/2020 1:00 PM	25:00	6.32 pH	18.07 °C	189.14 µS/cm	1.09 mg/L	0.80 NTU	76.9 mV	24.70 ft	100.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/10/2020 2:17:57 PM

Project: Plant Yates - AP 2

Operator Name: O. Fuquea

Location Name: YGWA-1D Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 178.6 ft Total Depth: 128.6 ft Initial Depth to Water: 48.39 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 123.6 ft Estimated Total Volume Pumped: 5.3 L Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714344
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Test Notes:

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 10	+/- 100	+/- 0.3	
2/10/2020 2:17 PM	00:00	7.21 pH	14.39 °C	162.71 µS/cm	0.32 mg/L		-38.3 mV	48.39 ft	150.00 ml/min
2/10/2020 2:22 PM	05:00	7.23 pH	14.62 °C	157.02 µS/cm	0.25 mg/L	2.30 NTU	-83.3 mV	48.50 ft	150.00 ml/min
2/10/2020 2:23 PM	05:21	7.23 pH	14.62 °C	156.66 µS/cm	0.25 mg/L	1.60 NTU	-82.8 mV	48.50 ft	150.00 ml/min
2/10/2020 2:28 PM	10:21	7.21 pH	14.57 °C	154.65 µS/cm	0.24 mg/L	1.50 NTU	-50.3 mV	48.60 ft	150.00 ml/min
2/10/2020 2:33 PM	15:21	7.22 pH	14.57 °C	152.24 µS/cm	0.23 mg/L	1.41 NTU	-50.4 mV	48.60 ft	150.00 ml/min
2/10/2020 2:38 PM	20:21	7.21 pH	14.66 °C	150.44 µS/cm	0.23 mg/L	1.52 NTU	-50.5 mV	48.60 ft	150.00 ml/min
2/10/2020 2:43 PM	25:21	7.21 pH	14.58 °C	149.33 µS/cm	0.23 mg/L	1.14 NTU	-49.0 mV	48.60 ft	150.00 ml/min
2/10/2020 2:48 PM	30:21	7.21 pH	14.58 °C	148.50 µS/cm	0.23 mg/L	1.11 NTU	-47.4 mV	48.60 ft	150.00 ml/min
2/10/2020 2:53 PM	35:21	7.20 pH	14.50 °C	147.47 µS/cm	0.23 mg/L	1.22 NTU	-44.0 mV	48.60 ft	150.00 ml/min

Samples

Sample ID:	Description:
YGWA-1D	Sampled at 1453. 53F rain.

Low-Flow Test Report:

Test Date / Time: 2/10/2020 2:32:55 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

Location Name: YGWA-11 Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 44.9 ft Total Depth: 54.93 ft Initial Depth to Water: 37.37 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 49.9 ft Estimated Total Volume Pumped: 3 liter Flow Cell Volume: 90 ml Final Flow Rate: 60 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Weather Conditions:

Raining

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/10/2020 2:32 PM	00:00	8.56 pH	12.22 °C	0.00 µS/cm	10.55 mg/L		37.7 mV	38.70 ft	60.00 ml/min
2/10/2020 2:33 PM	00:43	8.55 pH	12.26 °C	0.00 µS/cm	10.54 mg/L		154.5 mV	38.70 ft	60.00 ml/min
2/10/2020 2:38 PM	05:43	6.35 pH	13.58 °C	134.96 µS/cm	3.94 mg/L	10.80 NTU	137.5 mV	38.70 ft	60.00 ml/min
2/10/2020 2:43 PM	10:43	6.38 pH	13.49 °C	80.04 µS/cm	2.36 mg/L	1.20 NTU	76.2 mV	38.70 ft	60.00 ml/min
2/10/2020 2:48 PM	15:43	6.35 pH	13.32 °C	72.51 µS/cm	4.66 mg/L	1.40 NTU	72.8 mV	38.70 ft	60.00 ml/min
2/10/2020 2:53 PM	20:43	6.30 pH	13.12 °C	69.32 µS/cm	4.60 mg/L	1.60 NTU	73.5 mV	38.70 ft	60.00 ml/min
2/10/2020 2:58 PM	25:43	6.28 pH	13.12 °C	65.70 µS/cm	7.35 mg/L	1.80 NTU	74.9 mV	38.70 ft	60.00 ml/min
2/10/2020 3:03 PM	30:43	6.20 pH	13.21 °C	61.64 µS/cm	7.96 mg/L	1.70 NTU	79.7 mV	38.70 ft	60.00 ml/min
2/10/2020 3:08 PM	35:43	6.18 pH	14.67 °C	53.76 µS/cm	9.21 mg/L	1.20 NTU	84.9 mV	38.70 ft	60.00 ml/min
2/10/2020 3:13 PM	40:43	6.12 pH	14.76 °C	50.84 µS/cm	9.11 mg/L	1.30 NTU	92.4 mV	38.70 ft	60.00 ml/min
2/10/2020 3:18 PM	45:43	6.09 pH	14.81 °C	51.27 µS/cm	9.06 mg/L	1.20 NTU	92.3 mV	38.70 ft	60.00 ml/min
2/10/2020 3:19 PM	46:51	6.10 pH	14.85 °C	52.62 µS/cm	9.15 mg/L	1.05 NTU	95.3 mV	38.70 ft	60.00 ml/min

Samples

Sample ID:	Description:
YGWA-1I	Collect at 1521. 53F rain.

Low-Flow Test Report:

Test Date / Time: 2/11/2020 10:53:54 AM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

Location Name: YGWA-2I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 55.7 ft Total Depth: 65.74 ft Initial Depth to Water: 45.31 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 60 ft Estimated Total Volume Pumped: 3.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 50 ml/min Final Draw Down: 9.6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time: 1210. Rainy 50s

Weather Conditions:

Rainy 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/11/2020 10:53 AM	00:00	7.81 pH	19.05 °C	195.72 µS/cm	9.11 mg/L		184.6 mV	46.10 ft	50.00 ml/min
2/11/2020 10:58 AM	05:00	7.60 pH	17.40 °C	177.47 µS/cm	9.60 mg/L	1.80 NTU	104.5 mV	46.10 ft	50.00 ml/min
2/11/2020 11:03 AM	10:00	7.43 pH	17.67 °C	198.05 µS/cm	4.93 mg/L	1.60 NTU	-33.9 mV	46.10 ft	50.00 ml/min
2/11/2020 11:08 AM	15:00	7.45 pH	18.01 °C	195.98 µS/cm	4.98 mg/L	1.50 NTU	-45.4 mV	46.10 ft	50.00 ml/min
2/11/2020 11:13 AM	20:00	7.44 pH	18.16 °C	196.66 µS/cm	5.37 mg/L	1.20 NTU	-52.9 mV	46.10 ft	50.00 ml/min
2/11/2020 11:18 AM	25:00	7.44 pH	18.21 °C	192.62 µS/cm	6.51 mg/L	1.50 NTU	-71.2 mV	46.10 ft	50.00 ml/min
2/11/2020 11:23 AM	30:00	7.45 pH	18.25 °C	191.63 µS/cm	6.59 mg/L	0.60 NTU	-79.7 mV	46.10 ft	50.00 ml/min
2/11/2020 11:28 AM	35:00	7.44 pH	18.38 °C	188.88 µS/cm	4.09 mg/L	1.40 NTU	-50.5 mV	46.10 ft	50.00 ml/min
2/11/2020 11:33 AM	40:00	7.43 pH	18.43 °C	183.50 µS/cm	7.51 mg/L	2.10 NTU	-48.9 mV	46.10 ft	50.00 ml/min
2/11/2020 11:38 AM	45:00	7.44 pH	18.12 °C	192.67 µS/cm	2.20 mg/L	2.80 NTU	-53.6 mV	46.10 ft	50.00 ml/min
2/11/2020 11:43 AM	50:00	7.43 pH	17.94 °C	184.36 µS/cm	3.12 mg/L	3.60 NTU	-41.4 mV	46.10 ft	50.00 ml/min
2/11/2020 11:48 AM	55:00	7.42 pH	17.90 °C	186.05 µS/cm	4.05 mg/L	2.00 NTU	-40.8 mV	46.10 ft	50.00 ml/min
2/11/2020 11:53 AM	01:00:00	7.41 pH	17.88 °C	188.05 µS/cm	4.22 mg/L	3.00 NTU	-41.7 mV	46.10 ft	50.00 ml/min

2/11/2020 11:58 AM	01:05:00	7.40 pH	17.79 °C	187.89 µS/cm	5.88 mg/L	1.90 NTU	-36.9 mV	46.10 ft	50.00 ml/min
2/11/2020 12:03 PM	01:10:00	7.40 pH	17.90 °C	192.07 µS/cm	5.65 mg/L	1.30 NTU	-32.1 mV	46.10 ft	50.00 ml/min
2/11/2020 12:07 PM	01:13:22	7.38 pH	18.03 °C	187.76 µS/cm	5.80 mg/L	1.30 NTU	-49.7 mV	46.10 ft	50.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/12/2020 10:04:54 AM

Project: Plant Yates - AP2

Operator Name: Anna Schnittker

Location Name: YGWA-3D Well Diameter: 2 in Casing Type: PVC Screen Length: 50 ft Top of Screen: 87.1 ft Total Depth: 137.1 ft Initial Depth to Water: 30.25 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 115 ft Estimated Total Volume Pumped: 4.5 liter Flow Cell Volume: 90 ml Final Flow Rate: 150 ml/min Final Draw Down: 2 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time: 1040. Cloudy 50s

Weather Conditions:

Cloudy 50s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/12/2020 10:04 AM	00:00	6.78 pH	15.25 °C	198.88 µS/cm	2.67 mg/L		-9.4 mV	30.40 ft	150.00 ml/min
2/12/2020 10:06 AM	01:30	6.93 pH	15.57 °C	192.81 µS/cm	1.22 mg/L	2.10 NTU	-53.4 mV	30.40 ft	150.00 ml/min
2/12/2020 10:11 AM	06:30	7.44 pH	15.82 °C	193.41 µS/cm	0.30 mg/L	2.40 NTU	-70.0 mV	30.40 ft	150.00 ml/min
2/12/2020 10:16 AM	11:30	7.66 pH	15.84 °C	193.22 µS/cm	0.21 mg/L	1.90 NTU	-114.2 mV	30.40 ft	150.00 ml/min
2/12/2020 10:21 AM	16:30	7.73 pH	15.90 °C	193.36 µS/cm	0.19 mg/L	1.20 NTU	-81.9 mV	30.40 ft	150.00 ml/min
2/12/2020 10:26 AM	21:30	7.77 pH	15.93 °C	192.15 µS/cm	0.18 mg/L	0.80 NTU	-83.7 mV	30.40 ft	150.00 ml/min
2/12/2020 10:31 AM	26:30	7.80 pH	16.10 °C	192.74 µS/cm	0.16 mg/L	0.60 NTU	-88.7 mV	30.40 ft	150.00 ml/min
2/12/2020 10:36 AM	31:30	7.83 pH	16.15 °C	192.63 µS/cm	0.17 mg/L	0.50 NTU	-126.9 mV	30.40 ft	150.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/11/2020 1:24:14 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

Location Name: YGWA-3I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 50 ft Total Depth: 60 ft Initial Depth to Water: 52.22 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 55 ft Estimated Total Volume Pumped: 14 liter Flow Cell Volume: 90 ml Final Flow Rate: 90 ml/min Final Draw Down: 4 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time: 16:05. Cloudy 60s

Weather Conditions:

Rainy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/11/2020 1:24 PM	00:00	7.67 pH	17.63 °C	203.83 µS/cm	9.57 mg/L		36.8 mV	52.60 ft	90.00 ml/min
2/11/2020 1:29 PM	05:00	7.60 pH	17.46 °C	224.31 µS/cm	8.57 mg/L	8.80 NTU	20.7 mV	52.60 ft	90.00 ml/min
2/11/2020 1:34 PM	10:00	7.56 pH	17.37 °C	237.40 µS/cm	7.00 mg/L	11.60 NTU	-32.8 mV	52.60 ft	90.00 ml/min
2/11/2020 1:39 PM	15:00	7.58 pH	17.26 °C	234.57 µS/cm	5.48 mg/L	6.20 NTU	-58.6 mV	52.60 ft	90.00 ml/min
2/11/2020 1:44 PM	20:00	7.61 pH	17.22 °C	226.05 µS/cm	1.27 mg/L	6.00 NTU	-38.9 mV	52.60 ft	90.00 ml/min
2/11/2020 1:49 PM	25:00	7.64 pH	17.36 °C	217.08 µS/cm	1.65 mg/L	4.30 NTU	-46.4 mV	52.60 ft	90.00 ml/min
2/11/2020 1:54 PM	30:00	7.67 pH	17.32 °C	209.64 µS/cm	1.34 mg/L	4.10 NTU	-51.0 mV	52.60 ft	90.00 ml/min
2/11/2020 1:59 PM	35:00	7.68 pH	17.33 °C	203.97 µS/cm	1.26 mg/L	4.20 NTU	-55.4 mV	52.60 ft	90.00 ml/min
2/11/2020 2:04 PM	40:00	7.69 pH	17.35 °C	200.54 µS/cm	3.93 mg/L	3.80 NTU	-57.7 mV	52.60 ft	90.00 ml/min
2/11/2020 2:09 PM	45:00	7.70 pH	17.27 °C	197.03 µS/cm	1.37 mg/L	3.70 NTU	-60.6 mV	52.60 ft	90.00 ml/min
2/11/2020 2:14 PM	50:00	7.70 pH	17.27 °C	194.23 µS/cm	1.54 mg/L	1.00 NTU	-62.3 mV	52.60 ft	90.00 ml/min
2/11/2020 2:19 PM	55:00	7.70 pH	17.27 °C	191.33 µS/cm	1.57 mg/L	1.60 NTU	-63.8 mV	52.60 ft	90.00 ml/min
2/11/2020 2:24 PM	01:00:00	7.70 pH	17.18 °C	189.29 µS/cm	3.56 mg/L	1.40 NTU	-65.6 mV	52.60 ft	90.00 ml/min

2/11/2020 2:29 PM	01:05:00	7.70 pH	17.32 °C	187.66 µS/cm	3.81 mg/L	1.20 NTU	-67.6 mV	52.60 ft	90.00 ml/min
2/11/2020 2:34 PM	01:10:00	7.70 pH	17.44 °C	186.51 µS/cm	2.42 mg/L	0.80 NTU	-69.2 mV	52.60 ft	90.00 ml/min
2/11/2020 2:39 PM	01:15:00	7.71 pH	17.30 °C	188.28 µS/cm	1.05 mg/L	0.90 NTU	-67.8 mV	52.60 ft	90.00 ml/min
2/11/2020 2:44 PM	01:20:00	7.70 pH	17.22 °C	187.57 µS/cm	1.31 mg/L	0.70 NTU	-61.4 mV	52.60 ft	90.00 ml/min
2/11/2020 2:49 PM	01:25:00	7.70 pH	16.82 °C	188.09 µS/cm	0.66 mg/L	0.90 NTU	-69.5 mV	52.60 ft	90.00 ml/min
2/11/2020 2:54 PM	01:30:00	7.65 pH	16.79 °C	207.83 µS/cm	1.00 mg/L	0.80 NTU	-84.3 mV	52.60 ft	90.00 ml/min
2/11/2020 2:59 PM	01:35:00	7.63 pH	16.83 °C	210.86 µS/cm	1.31 mg/L	1.00 NTU	-80.3 mV	52.60 ft	90.00 ml/min
2/11/2020 3:04 PM	01:40:00	7.63 pH	17.36 °C	208.55 µS/cm	1.31 mg/L	1.40 NTU	-81.1 mV	52.60 ft	90.00 ml/min
2/11/2020 3:09 PM	01:45:00	7.65 pH	17.13 °C	197.76 µS/cm	1.10 mg/L	1.20 NTU	-87.6 mV	52.60 ft	90.00 ml/min
2/11/2020 3:14 PM	01:50:00	7.68 pH	17.09 °C	184.95 µS/cm	0.82 mg/L	1.10 NTU	-99.0 mV	52.60 ft	90.00 ml/min
2/11/2020 3:19 PM	01:55:00	7.69 pH	17.10 °C	180.99 µS/cm	0.67 mg/L	1.00 NTU	-104.2 mV	52.60 ft	90.00 ml/min
2/11/2020 3:24 PM	02:00:00	7.69 pH	17.21 °C	179.26 µS/cm	0.61 mg/L	0.80 NTU	-74.7 mV	52.60 ft	90.00 ml/min
2/11/2020 3:29 PM	02:05:00	7.69 pH	17.18 °C	178.71 µS/cm	0.57 mg/L	0.60 NTU	-107.1 mV	52.60 ft	90.00 ml/min
2/11/2020 3:34 PM	02:10:00	7.69 pH	17.20 °C	179.48 µS/cm	0.56 mg/L	0.90 NTU	-107.3 mV	52.60 ft	90.00 ml/min
2/11/2020 3:39 PM	02:15:00	7.69 pH	17.09 °C	179.58 µS/cm	0.55 mg/L	1.20 NTU	-75.1 mV	52.60 ft	90.00 ml/min
2/11/2020 3:44 PM	02:20:00	7.69 pH	17.09 °C	179.15 µS/cm	0.54 mg/L	0.90 NTU	-75.3 mV	52.60 ft	90.00 ml/min
2/11/2020 3:49 PM	02:25:00	7.68 pH	17.09 °C	178.47 µS/cm	0.52 mg/L	0.60 NTU	-106.6 mV	52.60 ft	90.00 ml/min
2/11/2020 3:54 PM	02:30:00	7.69 pH	17.09 °C	178.04 µS/cm	0.49 mg/L	0.60 NTU	-107.3 mV	52.60 ft	90.00 ml/min
2/11/2020 3:59 PM	02:35:00	7.69 pH	17.09 °C	177.70 µS/cm	0.48 mg/L	0.50 NTU	-107.4 mV	52.60 ft	90.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/12/2020 12:56:02 PM

Project: Plant Yates - Ash pond 2

Operator Name: Anna Schnittker

Location Name: YGWA-14S Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 25.8 ft Total Depth: 35.82 ft Initial Depth to Water: 15.61 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 30.8 ft Estimated Total Volume Pumped: 6.6 L Flow Cell Volume: 90 ml Final Flow Rate: 220 ml/min Final Draw Down: 6 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time: 1330. Cloudy 60s. DUP 1 here.

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/12/2020 12:56 PM	00:00	5.59 pH	19.45 °C	51.52 µS/cm	6.57 mg/L		145.9 mV	16.10 ft	220.00 ml/min
2/12/2020 1:01 PM	05:00	5.52 pH	18.43 °C	53.76 µS/cm	6.30 mg/L	0.50 NTU	223.3 mV	16.10 ft	220.00 ml/min
2/12/2020 1:06 PM	10:00	5.50 pH	18.43 °C	53.49 µS/cm	6.20 mg/L	0.50 NTU	148.6 mV	16.10 ft	220.00 ml/min
2/12/2020 1:11 PM	15:00	5.49 pH	18.43 °C	53.85 µS/cm	5.97 mg/L	0.50 NTU	144.9 mV	16.10 ft	220.00 ml/min
2/12/2020 1:16 PM	20:00	5.48 pH	18.38 °C	54.15 µS/cm	5.87 mg/L	0.50 NTU	141.2 mV	16.10 ft	220.00 ml/min
2/12/2020 1:21 PM	25:00	5.47 pH	18.34 °C	54.50 µS/cm	5.73 mg/L	0.50 NTU	135.5 mV	16.10 ft	220.00 ml/min
2/12/2020 1:26 PM	30:00	5.48 pH	18.25 °C	54.75 µS/cm	5.67 mg/L	0.30 NTU	208.8 mV	16.10 ft	220.00 ml/min

Samples

Sample ID:	Description:
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Low-Flow Test Report:

Test Date / Time: 2/12/2020 2:21:10 PM

Project: Plant Yates - AP 2

Operator Name: Anna Schnittker

Location Name: YGWA-30I Well Diameter: 2 in Casing Type: PVC Screen Length: 10 ft Top of Screen: 49.6 ft Total Depth: 59.65 ft Initial Depth to Water: 39.41 ft	Pump Type: QED Bladder Pump Tubing Type: Poly Pump Intake From TOC: 54.6 ft Estimated Total Volume Pumped: 4.8 liter Flow Cell Volume: 90 ml Final Flow Rate: 160 ml/min Final Draw Down: 12 in	Instrument Used: Aqua TROLL 400 Serial Number: 714302
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Test Notes:

Sample time: 1455

Weather Conditions:

Cloudy 60s

Low-Flow Readings:

Date Time	Elapsed Time	pH	Temperature	Specific Conductivity	RDO Concentration	Turbidity	ORP	Depth To Water	Flow
		+/- 0.1	+/- 100	+/- 5 %	+/- 10 %	+/- 100	+/- 100	+/- 0.3	
2/12/2020 2:21 PM	00:00	6.36 pH	22.12 °C	27.41 µS/cm	8.68 mg/L		113.7 mV	40.40 ft	160.00 ml/min
2/12/2020 2:26 PM	05:00	6.07 pH	18.29 °C	32.38 µS/cm	7.65 mg/L	0.70 NTU	107.1 mV	40.40 ft	160.00 ml/min
2/12/2020 2:31 PM	10:00	5.85 pH	18.30 °C	35.15 µS/cm	7.46 mg/L	0.60 NTU	115.0 mV	40.40 ft	160.00 ml/min
2/12/2020 2:36 PM	15:00	5.83 pH	18.26 °C	35.21 µS/cm	7.33 mg/L	0.70 NTU	112.7 mV	40.40 ft	160.00 ml/min
2/12/2020 2:41 PM	20:00	5.81 pH	18.25 °C	35.26 µS/cm	7.26 mg/L	0.60 NTU	111.3 mV	40.40 ft	160.00 ml/min
2/12/2020 2:46 PM	25:00	5.81 pH	18.34 °C	35.29 µS/cm	7.16 mg/L	0.60 NTU	110.6 mV	40.40 ft	160.00 ml/min
2/12/2020 2:51 PM	30:00	5.80 pH	18.34 °C	35.33 µS/cm	7.11 mg/L	0.60 NTU	110.0 mV	40.40 ft	160.00 ml/min

Samples

Sample ID:	Description:
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Daily Instrument Calibration Log

SITE: Wies
TECHNICIAN: A Schmittler

WATER LEVEL: Solinist
WATER LEVEL S/N: 322946

INSTRUMENT S/N: 714802
INSTRUMENT TYPE: ~~4988~~ Troll, Aqua
CAL. SOLUTIONS/S: ID: pH 4 LOT #: 96L003 EXP. DATE: 12/21
ID: pH 7 LOT #: 96H1160 EXP. DATE: 8/21
ID: pH 10 LOT #: 96B956 EXP. DATE: 2/21
ID: Con LOT #: 96L177 EXP. DATE: 12/20
ID: ORP LOT #: 96L592 EXP. DATE: 9/20
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____

Calibration Date: 2/10/20
RDO: 100% sat. = 99.3
PH: 4.00 = 4.05 7.00 = 7.08 10.00 = 10.06
CONDUCTIVITY: 1518
ORP (mV) 246.5

Calibration Date: 2/11/20
RDO: 100% sat. = 100.09
PH: 4.00 = 4.00 7.00 = 7.01 10.00 = 10.12
CONDUCTIVITY: 1441
ORP (mV) 233.6

Calibration Date: 2/12/20
RDO: 100% sat. = 99.8
PH: 4.00 = 4.01 7.00 = 7.09 10.00 = 10.07
CONDUCTIVITY: 1452
ORP (mV) 246.9

Calibration Date: 2/13/20
RDO: 100% sat. = 99.4
PH: 4.00 = 4.00 7.00 = 7.05 10.00 = 10.05
CONDUCTIVITY: 1150.0
ORP (mV) 235.5

Calibration Date: 2/14/20
RDO: 100% sat. = 101.4
PH: 4.00 = 3.75 7.00 = 6.87 10.00 = 10.05
CONDUCTIVITY: 1521
ORP (mV) _____



Daily Instrument Calibration Log

SITE: Yates
TECHNICIAN: A Schmittker

INSTRUMENT S/N: Hach 2100 1604C049767
INSTRUMENT TYPE: _____
CAL. SOLUTION: 0 NTU - LOT # N/A EXP. DATE: Fresh DI water
10 NTU - LOT # AB199 EXP. DATE: 7/20
20 NTU - LOT # AB215 EXP. DATE: 8/20

Calibration Date: 2/10/20

Calibration Solution	Instrument Reading	
0.0	<u>0.35</u>	NTU
10.0	<u>10.8</u>	NTU
20.0	<u>20.7</u>	NTU

Calibration Date: 2/11/20

Calibration Solution	Instrument Reading	
0.0	<u>0.28</u>	NTU
10.0	<u>10.5</u>	NTU
20.0	<u>19.5</u>	NTU

Calibration Date: 2/12/20

Calibration Solution	Instrument Reading	
0.0	<u>0.25</u>	NTU
10.0	<u>10.4</u>	NTU
20.0	<u>21.3</u>	NTU

Calibration Date: 2/13/20

Calibration Solution	Instrument Reading	
0.0	<u>0.3</u>	NTU
10.0	<u>10.8</u>	NTU
20.0	<u>20.1</u>	NTU

Calibration Date: 2/14/20

Calibration Solution	Instrument Reading	
0.0	<u>0.35</u>	NTU
10.0		NTU
20.0	<u>20.3</u>	NTU

Calibration Date: _____

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



MP50 = #4113

Daily Instrument Calibration Log

SITE: YATES
TECHNICIAN: OF

WATER LEVEL: Schist M101
WATER LEVEL S/N: 208288

INSTRUMENT S/N: 714344
INSTRUMENT TYPE: Aqua Troll
CAL. SOLUTIONS/S: ID: Cond LOT #: 961177 EXP. DATE: 12/20
ID: PH 7 LOT #: 961160 EXP. DATE: 8/21
ID: PH 4 LOT #: 961003 EXP. DATE: 12/21
ID: PH 10 LOT #: 290150 EXP. DATE: 3/20
ID: ORP LOT #: 962597 EXP. DATE: 6/20
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____

Calibration Date: 2-10-20
RDO: 100% sat. = 100.08%
PH: 4.00 = 4.06 7.00 = 7.03 10.00 = 10.05
CONDUCTIVITY: 1418.7
ORP (mV) 247.7

Calibration Date: 2-11-20
RDO: 100% sat. = 99.0%
PH: 4.00 = 4.09 7.00 = 7.06 10.00 = 10.10
CONDUCTIVITY: 1449.8
ORP (mV) 230.5

Calibration Date: 2-12-20
RDO: 100% sat. = 99.57%
PH: 4.00 = 4.00 7.00 = 6.97 10.00 = 10.08
CONDUCTIVITY: 1428.7
ORP (mV) 249.3

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____



Daily Instrument Calibration Log

SITE: YATES
TECHNICIAN: OF

INSTRUMENT S/N: 17120C063767
INSTRUMENT TYPE: HACH 2100Q
CAL. SOLUTION: 0 NTU - LOT # DZ H20 EXP. DATE: NA
10 NTU - LOT # A8199 EXP. DATE: 7-20
20 NTU - LOT # A8215 EXP. DATE: 8-20

Calibration Date: 2-10-20

Calibration Solution	Instrument Reading	
0.0	<u>0.04</u>	NTU
10.0	<u>10.1</u>	NTU
20.0	<u>19.9</u>	NTU

Calibration Date: 2-11-20

Calibration Solution	Instrument Reading	
0.0	<u>0.07</u>	NTU
10.0	<u>9.94</u>	NTU
20.0	<u>19.8</u>	NTU

Calibration Date: 2-12-20

Calibration Solution	Instrument Reading	
0.0	<u>0.01</u>	NTU
10.0	<u>10.2</u>	NTU
20.0	<u>19.9</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Xyles
TECHNICIAN: H. Auld / C. Parker

WATER LEVEL: Solinst 101
WATER LEVEL S/N: 48832

INSTRUMENT S/N: HA 714293 / CP 714302

INSTRUMENT TYPE:	<u>AquaTroll</u>		
CAL. SOLUTIONS/:	ID: <u>pH 4</u>	LOT #: <u>2809F08</u>	EXP. DATE: <u>9/20</u>
	ID: <u>pH 7</u>	LOT #: <u>9GH1160</u>	EXP. DATE: <u>8/21</u>
	ID: <u>pH 10</u>	LOT #: <u>2809E50</u>	EXP. DATE: <u>3/20</u>
	ID: <u>Cond.</u>	LOT #: <u>9GL177</u>	EXP. DATE: <u>12/20</u>
	ID: <u>ORP</u>	LOT #: <u>9GL592</u>	EXP. DATE: <u>9/20</u>
	ID:	LOT #:	EXP. DATE:
	ID:	LOT #:	EXP. DATE:

Calibration Date: 2-11-20
RDO: 100% sat. = 99.8%
PH: 4.00 = 4.06 7.00 = 7.05 10.00 = 10.07
CONDUCTIVITY: 1413 = 1445
ORP (mV) 240 = 230.20

Calibration Date: 2-12-20
RDO: 100% sat. = 99.6%
PH: 4.00 = 4.05 7.00 = 7.06 10.00 = 10.12
CONDUCTIVITY: 1413 = 1450
ORP (mV) 240 = 241.2

Calibration Date: 2-13-20
RDO: 100% sat. = 99.5%
PH: 4.00 = 4.01 7.00 = 7.05 10.00 = 10.04
CONDUCTIVITY: 1413 = 1439
ORP (mV) 240 = 235

Calibration Date: 2-14-20
RDO: 100% sat. = 108%
PH: 4.00 = 4.01 7.00 = 7.06 10.00 = 10.15
CONDUCTIVITY: 1314 = 1340
ORP (mV) 240 = 258

ed Calibration Date: 2-17-20
RDO: 100% sat. = _____
PH: 4.00 = 4.20 7.00 = 7.21 10.00 = 10.16
CONDUCTIVITY: 1413 = 1216
ORP (mV) 240 = 241



Daily Instrument Calibration Log

SITE: Plant Yates
TECHNICIAN: H. Auld / C. Parker

INSTRUMENT S/N: 100406049743
INSTRUMENT TYPE: HACH 2100Q
CAL. SOLUTION: 0 NTU - LOT # EXP. DATE:
10 NTU - LOT # A8199 EXP. DATE: 7/20
20 NTU - LOT # A8222 EXP. DATE: 8/20

Calibration Date: 2-11-20

Calibration Solution	Instrument Reading	
0.0	0.4	NTU
10.0	10.7	NTU
20.0	20.4	NTU

Calibration Date: 2-12-20

Calibration Solution	Instrument Reading	
0.0	0.4	NTU
10.0	10.4	NTU
20.0	20.5	NTU

Calibration Date: 2-13-20

Calibration Solution	Instrument Reading	
0.0	0.4	NTU
10.0	9.7	NTU
20.0	20.7	NTU

Calibration Date: 2-14-20

Calibration Solution	Instrument Reading	
0.0	0.5	NTU
10.0	9.1	NTU
20.0	20.9	NTU

Calibration Date: 2-17-20

Calibration Solution	Instrument Reading	
0.0	0.31	NTU
10.0	10.6	NTU
20.0	20.4	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

HA



CP

Product Name: Low-Flow System

Date: 2020-03-18 15:48:05

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 54 ft

Pump placement from TOC 49 ft

Well Information:

Well ID YGWA-1I
Well diameter 2 in
Well Total Depth 54.93 ft
Screen Length 10 ft
Depth to Water 34.05 ft

Pumping Information:

Final Pumping Rate 60 mL/min
Total System Volume 0.9112475 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 25
Last 5	15:27:20	5700.04	18.98	6.23	60.55	2.42	35.50	3.69	71.10
Last 5	15:32:20	6000.04	18.96	6.22	60.38	2.37	35.50	3.84	72.89
Last 5	15:37:20	6300.04	19.21	6.21	60.45	2.40	35.50	3.98	73.62
Last 5	15:42:20	6600.04	19.54	6.20	60.10	2.54	35.50	4.07	74.90
Last 5	15:47:20	6900.04	19.59	6.19	59.89	2.34	35.50	4.17	76.00
Variance 0			0.25	-0.01	0.07			0.14	0.73
Variance 1			0.33	-0.01	-0.35			0.09	1.28
Variance 2			0.05	-0.01	-0.21			0.09	1.10

Notes

Sampled at 15:37. Sunny, 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 10:34:42

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 108 ft

Pump placement from TOC 103 ft

Well Information:

Well ID YGWA-1D
Well diameter 2 in
Well Total Depth 128.60 ft
Screen Length 10 ft
Depth to Water 45.54 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 1.432495 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 7.75 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 25
Last 5	10:13:47	3600.03	16.06	7.05	166.86	6.32	45.70	0.35	-8.28
Last 5	10:18:47	3900.04	16.06	7.05	166.49	6.10	45.70	0.36	-7.42
Last 5	10:23:47	4200.04	16.19	7.04	166.01	5.69	45.70	0.36	-7.95
Last 5	10:28:47	4500.04	16.29	7.04	165.52	5.40	45.70	0.37	-9.80
Last 5	10:33:47	4800.04	16.47	7.03	165.44	4.93	45.70	0.39	-11.39
Variance 0			0.13	-0.01	-0.48			-0.00	-0.53
Variance 1			0.10	-0.01	-0.49			0.02	-1.85
Variance 2			0.18	-0.00	-0.08			0.01	-1.59

Notes

Sampled at 10:33. Sunny, 60's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 12:28:00

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 65 ft

Pump placement from TOC 60 ft

Well Information:

Well ID YGWA-2I
Well diameter 2 in
Well Total Depth 65.74 ft
Screen Length 10 ft
Depth to Water 42.83 ft

Pumping Information:

Final Pumping Rate 50 mL/min
Total System Volume 1.017428 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 42 in
Total Volume Pumped 3.25 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 25
Last 5	12:06:59	2100.03	19.70	7.14	233.61	2.88	45.80	0.68	-5.22
Last 5	12:11:59	2400.03	19.41	7.17	232.90	2.36	46.00	0.66	14.94
Last 5	12:16:59	2700.04	19.91	7.19	233.39	2.26	46.10	0.64	30.83
Last 5	12:21:59	3000.04	20.15	7.20	232.30	2.38	46.20	0.63	53.26
Last 5	12:26:59	3300.04	20.20	7.22	231.63	2.75	46.30	0.58	85.92
Variance 0			0.50	0.02	0.50			-0.02	15.89
Variance 1			0.24	0.01	-1.09			-0.01	22.43
Variance 2			0.05	0.02	-0.67			-0.05	32.66

Notes

Sampled at 12:37. Sunny, 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 11:03:24

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 60 ft

Pump placement from TOC 55 ft

Well Information:

Well ID YGWA-3I
Well diameter 2 in
Well Total Depth 60 ft
Screen Length 10 ft
Depth to Water 52.2 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6578054 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 9.6 in
Total Volume Pumped 14.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Stabilization									
Last 5	10:39:29	2400.03	17.06	7.29	204.10	0.60	53.00	0.57	75.60
Last 5	10:44:29	2700.03	16.96	7.30	203.67	0.60	53.00	0.52	72.98
Last 5	10:49:29	3000.03	16.93	7.30	200.56	0.80	53.00	0.45	70.05
Last 5	10:54:29	3300.03	16.92	7.31	199.19	0.60	53.00	0.43	67.24
Last 5	10:59:29	3600.03	17.04	7.31	197.33	--	--	0.40	64.81
Variance 0			-0.03	0.01	-3.11			-0.08	-2.93
Variance 1			-0.02	0.00	-1.37			-0.02	-2.81
Variance 2			0.13	0.00	-1.85			-0.02	-2.44

Notes

Sampled at 1100 on 3-19-20. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 12:10:44

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 116 ft

Pump placement from TOC 112.1 ft

Well Information:

Well ID YGWA-3D
Well diameter 2 in
Well Total Depth 137.1 ft
Screen Length 50 ft
Depth to Water 28.9 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.9077571 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.2 in
Total Volume Pumped 6.8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	11:44:58	900.03	17.23	7.49	229.99	10.50	29.00	0.35	48.14
Last 5	11:49:58	1200.03	17.22	7.57	230.39	9.40	29.00	0.19	46.17
Last 5	11:54:58	1500.03	17.25	7.61	230.72	5.90	29.00	0.16	44.50
Last 5	11:59:58	1800.03	17.25	7.64	230.66	5.50	29.00	0.16	42.77
Last 5	12:04:58	2100.03	17.54	7.65	230.73	4.70	29.00	0.17	40.55
Variance 0			0.03	0.04	0.33			-0.03	-1.67
Variance 1			-0.01	0.02	-0.06			-0.00	-1.73
Variance 2			0.30	0.01	0.07			0.01	-2.22

Notes

Sampled at 1210 on 3-19-20. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-18 15:48:29

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 35 ft

Pump placement from TOC 30 ft

Well Information:

Well ID YGWA-14S
Well diameter 2 in
Well Total Depth 35.82 ft
Screen Length 10 ft
Depth to Water 12.69 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.5462198 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.9 in
Total Volume Pumped 7.7 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	15:25:23	300.04	18.52	5.42	62.46	1.60	13.00	7.00	138.68
Last 5	15:30:23	600.03	18.52	5.40	62.25	1.00	13.00	6.90	140.57
Last 5	15:35:23	900.03	18.13	5.39	62.35	1.20	13.10	6.77	143.02
Last 5	15:40:23	1200.03	18.93	5.38	62.18	1.00	13.10	6.71	144.79
Last 5	15:45:23	1500.03	19.64	5.38	62.26	1.00	13.10	6.66	147.12
Variance 0			-0.40	-0.01	0.10			-0.13	2.44
Variance 1			0.80	-0.00	-0.17			-0.07	1.77
Variance 2			0.71	-0.00	0.08			-0.05	2.33

Notes

Sampled at 1550 on 3-18-20. Dup-1 here. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 14:21:40

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 59 ft

Pump placement from TOC 55 ft

Well Information:

Well ID YGWA-30I
Well diameter 2 in
Well Total Depth 59.65 ft
Screen Length 10 ft
Depth to Water 38.09 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.9595111 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 25
Last 5	14:01:00	2102.03	21.73	6.10	39.64	1.51	38.20	6.40	86.14
Last 5	14:06:00	2402.03	21.32	6.07	39.63	1.65	38.20	6.38	87.81
Last 5	14:11:00	2702.03	21.43	6.03	39.84	1.31	38.20	6.32	89.26
Last 5	14:16:00	3002.04	20.88	6.02	39.74	1.42	38.20	6.31	91.04
Last 5	14:21:00	3302.04	20.39	6.00	39.72	1.08	38.20	6.26	93.39
Variance 0			0.10	-0.03	0.21			-0.06	1.45
Variance 1			-0.55	-0.01	-0.11			-0.01	1.78
Variance 2			-0.49	-0.02	-0.02			-0.06	2.35

Notes

Sampled at 14:20. Sunny, 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 16:48:17

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 40 ft

Pump placement from TOC 35 ft

Well Information:

Well ID YGWC-26S
Well diameter 2 in
Well Total Depth 40.26 ft
Screen Length 10 ft
Depth to Water 20.22 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 0.7761093 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 11 in
Total Volume Pumped 8 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 25
Last 5	16:27:32	4500.04	22.99	5.47	287.42	6.62	21.10	0.62	108.53
Last 5	16:32:32	4800.04	22.69	5.46	286.84	5.71	21.10	0.65	106.15
Last 5	16:37:32	5100.04	22.42	5.47	286.22	5.23	21.10	0.63	104.67
Last 5	16:42:32	5400.04	22.62	5.46	287.43	5.17	21.10	0.66	104.63
Last 5	16:47:32	5700.04	22.71	5.46	286.64	4.93	21.10	0.63	104.34
Variance 0			-0.27	0.00	-0.62			-0.02	-1.48
Variance 1			0.20	-0.00	1.20			0.03	-0.04
Variance 2			0.09	-0.00	-0.79			-0.03	-0.28

Notes

Sampled at 16:47. Sunny 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-20 10:47:55

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 69 ft

Pump placement from TOC 64 ft

Well Information:

Well ID YGWC-26I
Well diameter 2 in
Well Total Depth 69.71 ft
Screen Length 10 ft
Depth to Water 22.21 ft

Pumping Information:

Final Pumping Rate 120 mL/min
Total System Volume 1.056039 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 13 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 25
Last 5	10:27:11	5100.04	18.96	5.95	330.08	5.13	22.40	0.31	78.67
Last 5	10:32:11	5400.04	19.05	5.95	329.94	5.02	22.40	0.31	78.73
Last 5	10:37:11	5700.04	19.18	5.95	329.69	5.06	22.40	0.30	78.88
Last 5	10:42:11	6000.04	19.18	5.95	329.66	5.11	22.40	0.30	79.31
Last 5	10:47:11	6300.04	19.23	5.94	329.48	4.81	22.40	0.30	78.95
Variance 0			0.12	-0.00	-0.24			-0.00	0.16
Variance 1			0.00	-0.00	-0.04			0.00	0.42
Variance 2			0.05	-0.00	-0.18			-0.01	-0.36

Notes

Sampled at 10:47. Cloudy, 60's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-20 12:02:56

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 40 ft

Pump placement from TOC 35.2 ft

Well Information:

Well ID YGWC-27S
Well diameter 2 in
Well Total Depth 40.26 ft
Screen Length 10 ft
Depth to Water 24.24 ft

Pumping Information:

Final Pumping Rate 250 mL/min
Total System Volume 0.5685369 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1 in
Total Volume Pumped 17.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	11:34:20	2700.03	19.06	6.19	408.98	8.50	24.30	0.12	81.13
Last 5	11:39:20	3000.03	19.01	6.18	409.25	6.70	24.30	0.12	82.18
Last 5	11:44:20	3300.03	18.97	6.18	409.35	5.70	24.30	0.12	82.91
Last 5	11:49:20	3600.03	18.96	6.18	409.61	5.10	24.30	0.12	83.62
Last 5	11:54:20	3900.06	18.99	6.18	410.22	4.85	24.30	0.12	84.19
Variance 0			-0.04	-0.00	0.09			-0.00	0.74
Variance 1			-0.01	0.00	0.27			0.00	0.71
Variance 2			0.03	-0.00	0.61			0.00	0.57

Notes

Sampled at 1200 on 3-20-20. Sunny, 70s.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-20 12:06:02

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates - Pond 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 465016
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 79 ft

Pump placement from TOC 74 ft

Well Information:

Well ID YGWC-27I
Well diameter 2 in
Well Total Depth 79.84 ft
Screen Length 10 ft
Depth to Water 24.48 ft

Pumping Information:

Final Pumping Rate 160 mL/min
Total System Volume 1.152566 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.3	+/- 25
Last 5	11:45:18	600.03	19.59	6.25	357.29	12.40	25.30	0.65	43.27
Last 5	11:50:18	900.03	19.72	6.28	355.84	7.94	25.30	0.36	40.61
Last 5	11:55:18	1200.03	20.43	6.29	352.38	3.95	25.30	0.28	38.96
Last 5	12:00:18	1500.03	19.64	6.30	352.46	2.49	25.30	0.28	40.84
Last 5	12:05:19	1801.03	19.67	6.32	350.09	2.31	25.30	0.27	42.95
Variance 0			0.71	0.01	-3.46			-0.09	-1.66
Variance 1			-0.79	0.01	0.08			-0.00	1.89
Variance 2			0.03	0.02	-2.37			-0.01	2.11

Notes

Sampled at 12:05. Cloudy, 70's.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 14:57:15

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 45 ft

Pump placement from TOC 39.8 ft

Well Information:

Well ID YGWC-28S
Well diameter 2 in
Well Total Depth 44.85 ft
Screen Length 10 ft
Depth to Water 22.26 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.590854 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5.2 in
Total Volume Pumped 24.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	14:33:34	5100.03	19.84	6.97	434.56	6.50	22.70	0.08	-49.56
Last 5	14:38:34	5400.03	19.81	6.97	434.78	5.20	22.70	0.08	-51.06
Last 5	14:43:34	5700.03	19.59	6.98	434.53	5.10	22.70	0.08	-52.68
Last 5	14:48:34	6000.03	19.65	6.98	433.64	5.20	22.70	0.08	-54.34
Last 5	14:53:34	6300.03	19.77	6.98	433.17	4.50	22.70	0.08	-56.10
Variance 0			-0.23	0.01	-0.24			0.00	-1.62
Variance 1			0.07	0.00	-0.90			0.00	-1.66
Variance 2			0.12	0.00	-0.47			-0.00	-1.76

Notes

Sampled at 1455 on 3-19-20. Sunny, 70s. EB-1-3-19-20 here at 1315.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-19 15:59:43

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 70 ft

Pump placement from TOC 64.8 ft

Well Information:

Well ID YGWC-28I
Well diameter 2 in
Well Total Depth 69.89 ft
Screen Length 10 ft
Depth to Water 22.57 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 0.7024395 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.6 in
Total Volume Pumped 6.5 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	15:36:32	1500.03	22.54	7.02	373.25	0.80	23.10	1.30	8.29
Last 5	15:41:32	1800.03	23.16	7.01	372.90	1.30	23.20	0.98	9.31
Last 5	15:46:33	2100.03	22.83	7.00	375.79	0.90	23.20	0.84	10.47
Last 5	15:51:32	2400.03	22.91	7.01	376.42	1.10	23.20	0.76	11.66
Last 5	15:56:32	2700.03	22.66	7.01	377.55	1.10	23.20	0.79	13.11
Variance 0			-0.32	-0.01	2.89			-0.14	1.16
Variance 1			0.08	0.02	0.63			-0.07	1.19
Variance 2			-0.26	-0.00	1.13			0.03	1.45

Notes

Sampled at 3-19-20. Sunny, 70s. FB-1-3-19-20 here at 1515.

Grab Samples

Product Name: Low-Flow System

Date: 2020-03-20 10:11:49

Project Information:

Operator Name Hunter Auld
Company Name ACC
Project Name Plant Yates - AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 512733
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 70 ft

Pump placement from TOC 64.9 ft

Well Information:

Well ID YGWC-29I
Well diameter 2 in
Well Total Depth 69.89 ft
Screen Length 10 ft
Depth to Water 24.90 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.7024395 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12 in
Total Volume Pumped 4.2 L

Low-Flow Sampling Stabilization Summary

	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization			+/- 100	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 100
Last 5	09:49:48	600.03	18.26	6.16	246.36	1.40	25.80	0.98	65.74
Last 5	09:54:48	900.03	18.32	6.16	246.59	1.30	25.80	0.65	65.08
Last 5	09:59:48	1200.03	18.41	6.17	246.19	1.30	25.90	0.50	64.05
Last 5	10:04:48	1500.03	18.39	6.17	246.44	1.20	25.90	0.43	63.63
Last 5	10:09:48	1800.02	18.43	6.17	246.38	1.00	25.90	0.39	63.60
Variance 0			0.09	0.01	-0.40			-0.15	-1.02
Variance 1			-0.02	0.00	0.25			-0.07	-0.42
Variance 2			0.04	-0.00	-0.06			-0.03	-0.04

Notes

Sampled at 1012 on 3-20-20. Cloudy, 70s.

Grab Samples



Daily Instrument Calibration Log

SITE: Plant Yates
TECHNICIAN: Ryan Walker

WATER LEVEL: Heron
WATER LEVEL S/N: 24424

INSTRUMENT S/N: 465016
INSTRUMENT TYPE: Smartroll
CAL. SOLUTIONS/S: ID: PH4/Kon LOT #: 20010025 EXP. DATE: 08/2021
ID: PH7 LOT #: 19340057 EXP. DATE: 08/2021
ID: PH10 LOT #: 19320102 EXP. DATE: 08/2021
ID: ORP LOT #: 19460167 EXP. DATE: 08/2021
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____

Calibration Date: 3/24/20
RDO: 100% sat. = 96.0
PH: 4.00 = 4.26 7.00 = 7.03 10.00 = 9.78
CONDUCTIVITY: 446.7
ORP (mV) 234.7

Calibration Date: 3/25/20
RDO: 100% sat. = 95.2
PH: 4.00 = 4.20 7.00 = 7.06 10.00 = _____
CONDUCTIVITY: 452.8
ORP (mV) 225.6

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____



Daily Instrument Calibration Log

SITE: Plant Yates : Gypsum
 TECHNICIAN: H. Auld

INSTRUMENT S/N: 16110C053543
 INSTRUMENT TYPE: HACH 2100Q
 CAL. SOLUTION: 0 NTU - LOT # ? EXP. DATE: _____
 10 NTU - LOT # ? EXP. DATE: _____
 20 NTU - LOT # ? EXP. DATE: _____

No Lot #s
 Indicated
 (rental)

Calibration Date: 3-17-20

Calibration Solution	Instrument Reading	
0.0	<u>10</u>	NTU
10.0	<u>10.9</u>	NTU
20.0	<u>20.0</u>	NTU

Calibration Date: 3-18-20

Calibration Solution	Instrument Reading	
0.0	<u>0.3</u>	NTU
10.0	<u>10.8</u>	NTU
20.0	<u>20.3</u>	NTU

Calibration Date: 3-19-20

Calibration Solution	Instrument Reading	
0.0	<u>0.6</u>	NTU
10.0	<u>9.96</u>	NTU
20.0	<u>20.4</u>	NTU

Calibration Date: 3-20-20

Calibration Solution	Instrument Reading	
0.0	<u>0.4</u>	NTU
10.0	<u>9.97</u>	NTU
20.0	<u>20.5</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Yates - Gypsum
TECHNICIAN: H. Hald

WATER LEVEL: Solinst M101
WATER LEVEL S/N: _____

INSTRUMENT S/N: 512733
INSTRUMENT TYPE: Smartroll
CAL. SOLUTIONS: ID: Auto Cal LOT #: 20010025 EXP. DATE: 08/21
ID: pH 7 LOT #: 19340057 EXP. DATE: 08/21
ID: pH 10 LOT #: 19320102 EXP. DATE: 08/21
ID: ORP LOT #: 19460167 EXP. DATE: 08/21
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____

Calibration Date: 3-17-20
RDO: 100% sat. = 94.3%
PH: 4.00 = 4.68 7.00 = 7.46 10.00 = 10.16
CONDUCTIVITY: 240 = 219 4490 = 4597
ORP (mV) 240 = 219

Calibration Date: 3-18-20
RDO: 100% sat. = 95.1
PH: 4.00 = 4.79 7.00 = 7.50 10.00 = 10.20
CONDUCTIVITY: 4490 = 4380
ORP (mV) 240 = 221

Calibration Date: 3-19-20
RDO: 100% sat. = 95%
PH: 4.00 = 4.75 7.00 = 7.02 10.00 = 10.25
CONDUCTIVITY: 4490 = 4390
ORP (mV) 240 = 214

Calibration Date: 3-20-20
RDO: 100% sat. = 94%
PH: 4.00 = 4.78 7.00 = 7.54 10.00 = 10.24
CONDUCTIVITY: 4490 = 4392
ORP (mV) 240 = 203

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____



Daily Instrument Calibration Log

SITE: Plant Yates R6
TECHNICIAN: T. Gobie

WATER LEVEL: Solinst
WATER LEVEL S/N: 236986

INSTRUMENT S/N: 512733
INSTRUMENT TYPE: Smartroll
CAL. SOLUTIONS: ID: Conc 4.49 LOT #: 20010025 EXP. DATE: 8/21
ID: pH 4 LOT #: 20010025 EXP. DATE: 8/21
ID: pH 7 LOT #: 193410057 EXP. DATE: 8/21
ID: pH 10 LOT #: 19320102 EXP. DATE: 8/21
ID: ORP 228 LOT #: 19460167 EXP. DATE: 8/21
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____

Calibration Date: 3-24-20
RDO: 100% sat. = 93.1
PH: 4.00 = 4.79 7.00 = 7.45 10.00 = 10.06
CONDUCTIVITY: 4490 = 4371
ORP (mV) 228 = 218.5

Calibration Date: 3-25-20
RDO: 100% sat. = 94.1
PH: 4.00 = 4.80 7.00 = 7.49 10.00 = 10.15
CONDUCTIVITY: 4490 = 4382
ORP (mV) 228 = 212.7

Calibration Date: 3-26-20
RDO: 100% sat. = 98.4
PH: 4.00 = 4.85 7.00 = 7.47 10.00 = 10.12
CONDUCTIVITY: 4490 = 4383
ORP (mV) 228 = 215.0

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____



Daily Instrument Calibration Log

SITE: Yates RG
TECHNICIAN: T. Goble

INSTRUMENT S/N: 16040C049743
INSTRUMENT TYPE: HAACH
CAL. SOLUTION: 0 NTU - LOT # N6W DJ EXP. DATE: -
10 NTU - LOT # A8199 EXP. DATE: Jul 20
20 NTU - LOT # A8215 EXP. DATE: Aug 20

Calibration Date: 3-24

Calibration Solution	Instrument Reading	
0.0	<u>0.41</u>	NTU
10.0	<u>9.9</u>	NTU
20.0	<u>20.5</u>	NTU

Calibration Date: 3-25

Calibration Solution	Instrument Reading	
0.0	<u>0.37</u>	NTU
10.0	<u>9.8</u>	NTU
20.0	<u>20.3</u>	NTU

Calibration Date: 3-26

Calibration Solution	Instrument Reading	
0.0	<u>0.44</u>	NTU
10.0	<u>9.7</u>	NTU
20.0	<u>20.3</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Yates
TECHNICIAN: A Schmittner

INSTRUMENT S/N: 17010C055429
INSTRUMENT TYPE: Hach 2100
CAL. SOLUTION: 0 NTU - LOT # _____ EXP. DATE: Fresh DI water
10 NTU - LOT # A9376 EXP. DATE: 8/20 3/20
20 NTU - LOT # A9120 EXP. DATE: 8/20

Calibration Date: 3/24

Calibration Solution	Instrument Reading	
0.0	<u>0.32</u>	NTU
10.0	<u>10.1</u>	NTU
20.0	<u>20.5</u>	NTU

Calibration Date: 3/25

Calibration Solution	Instrument Reading	
0.0	<u>0.33</u>	NTU
10.0	<u>10.1</u>	NTU
20.0	<u>20.3</u>	NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU

Calibration Date:

Calibration Solution	Instrument Reading	
0.0		NTU
10.0		NTU
20.0		NTU



Daily Instrument Calibration Log

SITE: Plant Yates
TECHNICIAN: A Schmitter

WATER LEVEL: Solinist
WATER LEVEL S/N: 322946

INSTRUMENT S/N: 714293
INSTRUMENT TYPE: Agua Troil 400
CAL. SOLUTIONS/ID: PH 4 LOT #: 96L003 EXP. DATE: 12/21
PH 7 LOT #: 2808E52 EXP. DATE: 8/20
PH 10 LOT #: 2809E50 EXP. DATE: 3/20
ORP LOT #: 96K142 EXP. DATE: 8/20
Conductivity LOT #: 96L177 EXP. DATE: 12/20
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____

Calibration Date: 3/24
RDO: 100% sat. = 100.44
PH: 4.00 = 3.91 7.00 = 7.12 10.00 = 10.12
CONDUCTIVITY: 1515
ORP (mV) 246.7

Calibration Date: 3/25
RDO: 100% sat. = 99.5
PH: 4.00 = 4.06 7.00 = 7.04 10.00 = 10.11
CONDUCTIVITY: 1352.1
ORP (mV) 234.7

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____



Daily Instrument Calibration Log

SITE: Plant Yates
TECHNICIAN: Ryan Walker

INSTRUMENT S/N: 17010C055429
INSTRUMENT TYPE: Hach 2100B
CAL. SOLUTION: 0 NTU - LOT # DI EXP. DATE: New
10 NTU - LOT # A8341 EXP. DATE: 03/2020
20 NTU - LOT # A9120 EXP. DATE: 08/2020

Calibration Date: 3/17/20

Calibration Solution	Instrument Reading	
0.0	0.36	NTU
10.0	9.95	NTU
20.0	21.7	NTU

Calibration Date: 3/18/20

Calibration Solution	Instrument Reading	
0.0	0.22	NTU
10.0	10.3	NTU
20.0	19.8	NTU

Calibration Date: 3/19/20

Calibration Solution	Instrument Reading	
0.0	0.23	NTU
10.0	9.89	NTU
20.0	19.9	NTU

Calibration Date: 3/20/20

Calibration Solution	Instrument Reading	
0.0	0.23	NTU
10.0	9.85	NTU
20.0	20.5	NTU

Calibration Date: 3/24/20

Calibration Solution	Instrument Reading	
0.0	0.42	NTU
10.0	10.8	NTU
20.0	18.4	NTU

Calibration Date: 3/25/20

Calibration Solution	Instrument Reading	
0.0	0.44	NTU
10.0	10.4	NTU
20.0	20.2	NTU



Daily Instrument Calibration Log

SITE: Plant Yates
TECHNICIAN: Ryan Walker

WATER LEVEL: Heron
WATER LEVEL S/N: 24424

INSTRUMENT S/N: 465016
INSTRUMENT TYPE: Smartroll
CAL. SOLUTIONS:
ID: PH4/CON LOT #: 2001025 EXP. DATE: 08/2021
ID: PH7 LOT #: 19340057 EXP. DATE: 08/2021
ID: PH10 LOT #: 19820102 EXP. DATE: 08/2021
ID: ORP LOT #: 19460167 EXP. DATE: 08/2021
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____
ID: _____ LOT #: _____ EXP. DATE: _____

Calibration Date: 3/17/20
RDO: 100% sat. = 95.7
PH: 4.00 = 4.21 7.00 = 6.98 10.00 = 9.72
CONDUCTIVITY: 4430
ORP (mV) 245.4

Calibration Date: 3/18/20
RDO: 100% sat. = 96.9
PH: 4.00 = 4.19 7.00 = 7.00 10.00 = 9.78
CONDUCTIVITY: 4521
ORP (mV) 237.7

Calibration Date: 3/19/20
RDO: 100% sat. = 96.5
PH: 4.00 = 4.19 7.00 = 7.01 10.00 = 9.80
CONDUCTIVITY: 4511
ORP (mV) 234.9

Calibration Date: 3/20/20
RDO: 100% sat. = 97.0
PH: 4.00 = 4.17 7.00 = 7.01 10.00 = 9.83
CONDUCTIVITY: 4520
ORP (mV) 228.3

Calibration Date: _____
RDO: 100% sat. = _____
PH: 4.00 = _____ 7.00 = _____ 10.00 = _____
CONDUCTIVITY: _____
ORP (mV) _____

Client:		Georgia Power			
Project Location:		AP-2			
Date:		9/21/2020			
Sampler:		Katie Pupkiewicz			
Equipment:		water probe			
Well	Date	Time	Depth to Water (ft)	Well Depth (ft)	Comments
YGWC-26S	9/21/2020	11:28:00	25.29	40.18	--
YGWC-26I	9/21/2020	11:36:00	26.24	69.81	--
PZ-25S	9/21/2020	11:59:00	36.12	56.8	--
PZ-25I	9/21/2020	12:01:00	37.43	84.58	--
YGWC-27I	9/21/2020	12:25:00	30.37	79.99	--
YGWC-27S	9/21/2020	12:29:00	30.21	40.52	--
YGWC-28I	9/21/2020	12:31:00	28.33	69.93	--
YGWC-28S	9/21/2020	12:35:00	26.72	44.95	--
YGWC-29I	9/21/2020	12:39:00	27.61	39.59	--
PZ-14I	9/21/2020	13:03:00	18.38	50.86	--
YGWA-14S	9/21/2020	13:05:00	17.37	34.96	--
PZ-31S	9/21/2020	13:10:00	14.37	34.72	--
YGWA-30I	9/21/2020	13:22:00	43.47	59.48	--
YGWA-2I	9/21/2020	13:49:00	44.18	63.75	--
PZ-1S	9/21/2020	14:17:00	31.93	36.34	--
YGWA-1D	9/21/2020	14:19:00	48.22	128.85	--
YGWA-1I	9/21/2020	14:20:00	36.71	53.6	--
PZ-13I	9/21/2020	14:24:00	38.78	59.22	--
PZ-13S	9/21/2020	14:25:00	35.49	43.79	--
PZ-3S	9/21/2020	14:52:00	34.24	42.39	--
YGWA-3I	9/21/2020	14:53:00	53.32	59.05	--
YGWA-3D	9/21/2020	14:55:00	23.41	134.18	--

Groundwater Sampling Form

Project Number 30052922 **Well ID** YGWA-1D **Date** 09/23/2020

Project Location AP-2 **Weather(°F)**

Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	78.05-128.05	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	48.24	Total Depth (ft-bmp)	128.85	Water Column(ft)	80.61	Gallons in Well	13.1
MP Elevation	837.25	Pump Intake (ft-bmp)	108	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	12:45	Well Volumes Purged	0.04	Sample ID	YGWA-2I	Sampled by	Becky Steever
Purge Start	10:22	Gallons Purged	0.47	Replicate/ Code No.	NA	Color	Clear

Purge End

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)
10:22:28	00:00	100	48.24	7.0	143.4	1.1	9.0	19.3	61.1
10:25:14	02:46	100	48.33	7.0	123.44	1.0	5.4	17.9	-45.3
10:30:14	07:46	100	48.33	7.1	168.14	8.7	0.4	17.5	-91.8
10:35:14	12:46	100	48.34	7.2	165.09	4.5	0.2	17.3	-111.0
10:40:14	17:46	100	48.34	7.2	162.71	1.1	0.2	17.6	-115.1

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

Comments: Confirmation turbidity 0.99

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form



Project Number 30052922 **Well ID** YGWA-11 **Date** 09/23/2020

Project Location AP-2 **Weather(°F)** 63.3 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 43.30-53.30 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 36.73 **Total Depth (ft-bmp)** 53.6 **Water Column(ft)** 16.87 **Gallons in Well** 2.74

MP Elevation 836.6 **Pump Intake (ft-bmp)** 49 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 09:50 **Well Volumes Purged** 0.53 **Sample ID** YGWA-11 **Sampled by** Becky Steever

Purge Start 07:19 **Gallons Purged** 1.46 **Replicate/Code No.** NA **Color** Clear

Purge End

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)
07:19:09	00:00	100	38.6	6.6	75.08	0.0	6.4	18.5	200.2
07:19:54	00:45	200	40.15	6.5	62.38	0.0	5.7	18.2	107.1
07:24:54	05:45	200	40.45	6.4	0.06	0.0	1.1	18.8	-40.3
07:29:54	10:45	200	40.6	6.2	0.06	0.0	2.4	18.7	-25.8
07:34:54	15:45	200	40.89	6.0	0.06	0.0	2.4	18.4	-7.3
07:39:54	20:45	200	40.91	6.1	0.06	0.0	4.1	18.6	14.4
07:44:54	25:45	200	40.91	6.0	0.06	0.0	2.8	18.2	52.8

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

Comments: In situation rugged tablet time is off by 2 hours. Will correct on next well

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form



Project Number 30052922 **Well ID** YGWA-2I **Date** 09/23/2020

Project Location AP-2 **Weather(°F)** 70.5 degrees F and Clear. The wind is blowing undefined at 0.0 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 53.45-63.45 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 44.18 **Total Depth (ft-bmp)** 63.75 **Water Column(ft)** 19.57 **Gallons in Well** 3.18

MP Elevation 866.25 **Pump Intake (ft-bmp)** 60 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 12:45 **Well Volumes Purged** 0.46 **Sample ID** YGWA-2I **Sampled by** Becky Steever

Purge Start 11:37 **Gallons Purged** 1.46 **Replicate/Code No.** NA **Color** Clear

Purge End 13:55

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)
11:37:04	00:00	120	44.18	6.3	0.06	0.9	8.4	23.2	29.5
11:42:04	05:00	100	46.8	7.2	214.14	0.2	2.0	18.6	-49.6
11:47:04	10:00	100	48.18	7.1	215.12	0.8	0.6	18.1	-51.3
11:52:04	15:00	100	49.09	7.2	214.71	2.6	0.4	17.9	-45.8
11:57:04	20:00	100	50.2	7.2	215.11	3.0	0.4	18.2	-43.8
12:02:04	25:00	100	50.91	7.2	214.56	4.2	0.4	18.2	-43.5
12:07:04	30:00	100	51.5	7.2	215.39	5.4	0.4	18.5	-44.5
12:12:04	35:00	100	52.21	7.2	215.27	5.1	0.5	18.6	-46.5
12:17:04	40:00	100	53.62	7.2	216.18	4.7	0.6	18.3	-49.3
12:22:04	45:00	50	53.55	7.2	215.90	3.9	0.7	18.3	-52.4
12:27:18	50:14	45	54.36	7.2	216.45	6.2	0.7	18.5	-54.8
12:32:18	55:14	45	54.88	7.2	216.37	9.3	0.7	18.7	-56.4
12:37:18	00:14	45	54.86	7.2	216.64	16.5	0.8	19.0	-57.6
12:42:18	05:14	45	54.78	7.2	217.19	17.6	0.8	19.0	-58.2

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

Comments: Confirmation turbidity 4.36. Previous three confirmation readings all under 5 NTU.

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form



Project Number 30052922 **Well ID** YGWA-3D **Date** 09/23/2020

Project Location AP-2 **Weather(°F)** 76.3 degrees F and Partly Cloudy. The wind is blowing NW at 12.1 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 83.88-133.88 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 24.4 **Total Depth (ft-bmp)** 134.18 **Water Column(ft)** 109.78 **Gallons in Well** 17.84

MP Elevation 796.78 **Pump Intake (ft-bmp)** 113 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 15:55 **Well Volumes Purged** 0.07 **Sample ID** GWA-3D **Sampled by** Becky Steever

Purge Start 15:22 **Gallons Purged** 1.27 **Replicate/Code No.** NA **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)
15:22:55	00:00	150	24.4	7.5	233.04	0.9	7.8	22.4	34.1
15:27:55	05:00	150	28.55	7.3	227.23	0.1	4.2	19.9	5.3
15:32:55	10:00	150	28.55	7.2	228.13	0.1	0.8	18.6	-85.7
15:33:12	10:17	150	28.54	7.2	228.02	0.1	0.7	18.4	-86.9
15:38:12	15:17	150	28.54	7.4	228.15	0.0	0.4	18.2	-99.9
15:38:41	15:46	150	28.55	7.5	228.79	0.1	0.4	18.4	-100.7
15:43:41	20:46	150	28.55	7.7	228.61	0.2	0.5	18.1	-117.9
15:48:41	25:46	150	28.55	7.7	227.81	0.0	0.5	18.0	-119.6
15:55:00	32:05	150	28.55	7.6	227.96	17.2	0.5	18.0	-115.3

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

Comments: Confirmation turbidity 0.26 NTU. Smart troll likely had something stuck to sensor for its last reading.

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-3I	Date	09/23/2020
Project Location	AP-2	Weather(°F)	74.3 degrees F and Mostly Cloudy. The wind is blowing S at 12.1 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	48.85-58.85	Casing Diameter (in)	2
		Well Casing Material	PVC		
Static Water Level (ft-bmp)	53.32	Total Depth (ft-bmp)	59.05	Water Column(ft)	5.73
		Gallons in Well	0.93		
MP Elevation	796.55	Pump Intake (ft-bmp)	54	Purge Method	Low-Flow
		Sample Method	Low-Flow		
Sample Time	14:45	Well Volumes Purged	0.97	Sample ID	YGWA-3i
		Sampled by	Becky Steever		
Purge Start	14:19	Gallons Purged	0.91	Replicate/ Code No.	NA
		Color	Clear		
Purge End	14:25				

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)
14:19:39	00:00	200	53.32	7.5	199.96	0.3	8.7	21.5	60.0
14:21:48	02:09	150	53.5	7.4	201.45	0.3	8.5	22.0	62.8
14:26:48	07:09	150	53.51	7.4	228.43	0.2	6.9	21.2	67.1
14:31:48	12:09	150	53.51	7.3	267.51	0.1	3.6	20.8	63.3
14:36:48	17:09	150	53.52	7.4	276.71	0.1	2.2	20.5	15.6
14:41:48	22:09	150	53.53	7.4	269.21	0.0	1.6	20.1	-35.0

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

Comments: Confirmation turbidity 0.21 NTU

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form



Project Number 30053437 **Well ID** YGWA-14S **Date** 09/25/2020

Project Location AP-2 **Weather(°F)** 72.5 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 24.66-34.66 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 17.43 **Total Depth (ft-bmp)** 34.96 **Water Column(ft)** 17.53 **Gallons in Well** 2.85

MP Elevation 748.76 **Pump Intake (ft-bmp)** 30 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 09:45 **Well Volumes Purged** 0.48 **Sample ID** YGWA-14S(092520) **Sampled by** Katie Pupkiewicz

Purge Start 09:10 **Gallons Purged** 1.37 **Replicate/ Code No.** DUP-01(092520) FB-2(092520) **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)
09:10:20	00:00	180	17.43	5.6	0.06	2.7	8.3	21.3	220.1
09:15:20	05:00	180	17.87	5.4	18.29	1.1	8.2	20.4	218.4
09:20:20	10:00	180	17.89	5.4	60.44	1.0	8.3	20.0	223.1
09:25:20	15:00	180	17.89	5.3	60.07	4.7	7.7	19.8	220.0
09:30:20	20:00	180	17.89	5.4	63.67	1.0	8.0	19.9	229.4
09:35:20	25:00	140	17.89	5.4	63.33	1.0	7.9	19.7	234.0
09:40:20	30:00	140	17.89	5.4	61.82	1.0	7.8	20.1	234.5

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

Comments: Final turbidity was 0.25. Strong gasoline odor from pumping station nearby.

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form



Project Number 30052922 **Well ID** YGWC-26S **Date** 09/24/2020

Project Location AP-2 **Weather(°F)** 67.1 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 30.22-40.18 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 25.5 **Total Depth (ft-bmp)** 40.18 **Water Column(ft)** 14.68 **Gallons in Well** 2.39

MP Elevation 716.28 **Pump Intake (ft-bmp)** 58 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 10:20 **Well Volumes Purged** 0.23 **Sample ID** YGWC-26S **Sampled by** Becky Steever

Purge Start 10:17 **Gallons Purged** 0.55 **Replicate/Code No.** DUP-02 **Color** Clear

Purge End

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)
10:17:02	00:00	150	25.5	5.7	227.41	0.6	6.6	19.5	113.8
10:22:41	05:39	125	27.04	5.4	291.69	10.4	1.4	18.9	138.6
10:27:41	10:39	125	27.03	5.4	292.27	2.2	0.8	19.0	168.1
10:32:41	15:39	125	27.03	5.5	292.9	1.4	0.8	19.1	178.7

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

Comments: Turbidity confirmation 1.76 NTU

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form

Project Number 30052922 **Well ID** YGWC-26I **Date** 09/24/2020

Project Location AP-2 **Weather(°F)** Rainy °F, , winds at mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 59.51-69.61 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 26.31 **Total Depth (ft-bmp)** 69.81 **Water Column(ft)** 43.5 **Gallons in Well** 7.07

MP Elevation 715.91 **Pump Intake (ft-bmp)** 37 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 11:05 **Well Volumes Purged** 0.10 **Sample ID** YGWC-26I **Sampled by** Becky Steever

Purge Start 11:01 **Gallons Purged** 0.68 **Replicate/ Code No.** NA **Color** Clear

Purge End

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)
11:01:16	00:00	150	26.31	5.5	0.06	0.0	9.0	19.5	147.0
11:06:16	05:00	150	26.7	6.0	309.49	6.9	2.2	19.2	67.9
11:08:29	07:13	150	26.71	5.9	311.92	6.0	1.0	19.1	94.9
11:13:29	12:13	150	26.74	5.9	312.96	0.3	0.3	19.0	125.0
11:18:29	17:13	150	26.77	5.9	313.18	0.2	0.2	19.0	141.8

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

Comments:

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form

Project Number 30052922 **Well ID** YGWC-27I **Date** 09/24/2020

Project Location AP-2 **Weather(°F)** Rain °F, , winds at mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 69.69-79.69 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 30.11 **Total Depth (ft-bmp)** 79.99 **Water Column(ft)** 49.88 **Gallons in Well** 8.11

MP Elevation 716.19 **Pump Intake (ft-bmp)** 75 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 14:45 **Well Volumes Purged** 0.05 **Sample ID** YGWC-27I **Sampled by** Becky Steever

Purge Start 14:25 **Gallons Purged** 0.40 **Replicate/Code No.** NA **Color** Clear

Purge End

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
14:25:00	00:00	100	30.11	6.7	315.17	2.1	4.0	20.0	1.2
14:30:00	05:00	100	30.12	6.4	328.55	1.5	1.3	19.5	-10.9
14:35:00	10:00	100	30.12	6.4	330.52	0.7	0.6	19.4	-15.3
14:40:00	15:00	100	30.11	6.4	329.12	0.0	0.5	19.4	-17.6

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

Comments: Turbidity meter reading at time of sampling 0.32 NTU.

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form

Project Number	30052922	Well ID	YGWC-27S	Date	09/24/2020
Project Location	AP-2	Weather(°F)	67.5 degrees F and Light Rain. The wind is blowing E at 29.0 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	30.22-40.22	Casing Diameter (in)	2
		Well Casing Material	PVC		
Static Water Level (ft-bmp)	30.02	Total Depth (ft-bmp)	40.52	Water Column(ft)	10.5
		Gallons in Well	1.71		
MP Elevation	716.52	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow
		Sample Method	Low-Flow		
Sample Time	13:55	Well Volumes Purged	1.60	Sample ID	YGWC-27S
		Sampled by	Becky Steever		
Purge Start	12:40	Gallons Purged	2.74	Replicate/ Code No.	NA
		Color	Clear		

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
12:40:52	00:00	150	30.02	6.3	281.84	5.9	6.0	20.1	146.7
12:45:52	05:00	150	30.02	6.2	279.83	7.6	1.7	19.5	145.9
12:50:52	10:00	150	30.02	6.3	384.17	4.6	1.1	19.1	142.4
12:55:52	15:00	150	30.02	6.2	384.95	8.8	0.4	19.1	140.2
13:00:52	20:00	150	30.02	6.2	383.08	9.8	0.3	19.0	139.1
13:05:52	25:00	150	30.02	6.2	382.89	11.8	0.2	19.0	138.0
13:10:52	30:00	150	30.02	6.2	383.54	18.9	0.3	19.0	138.1
13:15:52	35:00	150	30.02	6.4	354.27	7.6	8.6	19.1	137.0
13:20:52	40:00	150	30.02	6.4	353.35	9.8	8.5	19.3	136.8
13:25:52	45:00	150	30.02	6.4	350.11	6.2	8.5	19.4	133.6
13:30:52	50:00	150	30.02	6.4	347.77	6.2	8.4	19.4	136.6
13:35:52	55:00	150	30.02	6.3	368.46	11.9	7.8	19.4	136.0
13:40:52	00:00	150	30.02	6.3	369.45	5.9	7.3	19.2	135.9
13:45:52	05:00	125	30.02	6.3	371.89	7.0	7.2	19.2	135.5
13:50:52	10:00	125	30.02	6.3	375.1	3.3	7.3	19.2	135.5

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

Comments: Well will maintain higher purge rate (water column never went down) but lowered purge rate to try and decrease turbidity to below 5 ntu.

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form



Project Number	30053437	Well ID	YGWC-28S	Date	09/24/2020		
Project Location	AP-2	Weather(°F)	67.5 degrees F and Rain. The wind is blowing E/SE at 37.0 mph.				
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	34.65-44.65	Casing Diameter (in)	2	Well Casing Material	PVC
Static Water Level (ft-bmp)	27.35	Total Depth (ft-bmp)	44.95	Water Column(ft)	17.6	Gallons in Well	2.86
MP Elevation	717.95	Pump Intake (ft-bmp)	40	Purge Method	Low-Flow	Sample Method	Low-Flow
Sample Time	14:36	Well Volumes Purged	0.81	Sample ID	YGWC-28S(092420)	Sampled by	Katie Pupkiewicz
Purge Start	13:50	Gallons Purged	2.32	Replicate/Code No.	NA	Color	Clear

Purge End	14:42								
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)
13:50:49	00:00	220	27.78	6.6	312.34	35.4	6.8	21.3	4.7
13:55:49	05:00	220	27.85	6.5	374.20	63.5	1.7	20.0	-44.6
14:00:49	10:00	220	27.98	6.4	454.24	44.7	2.0	19.5	-51.9
14:05:49	15:00	220	27.97	6.5	457.39	22.9	0.5	19.4	-58.3
14:10:49	20:00	220	27.97	6.5	456.71	15.0	0.2	19.5	-65.9
14:15:49	25:00	220	27.93	6.5	457.42	11.8	0.2	19.4	-67.8
14:20:49	30:00	220	27.97	6.5	457.62	9.9	0.2	19.4	-65.3
14:25:49	35:00	220	27.98	6.5	457.26	6.5	0.2	19.5	-70.2
14:30:49	40:00	220	27.98	6.5	457.11	5.3	0.1	19.4	-70.3

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

Comments: Final turbidity was 3.98

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form



Project Number 30053437 **Well ID** YGWC-28I **Date** 09/24/2020

Project Location AP-2 **Weather(°F)** 70.7 degrees F and Light Drizzle. The wind is blowing E/SE at 33.0 mph.

Measuring Pt. Description Top of Inner Casing **Screen Setting (ft-bmp)** 59.63-69.63 **Casing Diameter (in)** 2 **Well Casing Material** PVC

Static Water Level (ft-bmp) 28.74 **Total Depth (ft-bmp)** 69.93 **Water Column(ft)** 41.19 **Gallons in Well** 6.69

MP Elevation 717.93 **Pump Intake (ft-bmp)** 64 **Purge Method** Low-Flow **Sample Method** Low-Flow

Sample Time 15:40 **Well Volumes Purged** 0.11 **Sample ID** YGWC-28I(092420) **Sampled by** Katie Pupkiewicz

Purge Start 15:20 **Gallons Purged** 0.71 **Replicate/Code No.** NA **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)
15:20:59	00:00	220	29.76	7.2	374.87	5.0	7.2	20.9	-30.3
15:25:59	05:00	160	30.74	6.4	366.44	1.1	1.9	19.6	74.8
15:30:59	10:00	160	30.82	6.4	359.79	0.7	0.7	19.7	83.7
15:35:59	15:00	160	30.92	6.4	360.82	1.1	0.5	19.8	91.1

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

Comments: Final turbidity is .95

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form

Project Number	30053437	Well ID	YGWC-29I	Date	09/24/2020
Project Location	AP-2	Weather(°F)	72.5 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	29.29-39.29	Casing Diameter (in)	2
Static Water Level (ft-bmp)	27.86	Total Depth (ft-bmp)	39.59	Water Column(ft)	11.73
MP Elevation	717.39	Pump Intake (ft-bmp)	35	Purge Method	Low-Flow
Sample Time	16:37	Well Volumes Purged	1.14	Sample ID	YGWC-29I(092420)
Purge Start	15:38	Gallons Purged	2.18	Replicate/ Code No.	NA
Purge End	16:50			Color	Clear

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
15:38:21	00:00	150	27.86	6.9	53.61	7.9	8.9	20.1	17.8
15:43:21	05:00	150	27.86	6.3	235.44	0.0	1.8	19.1	73.6
15:48:21	10:00	150	27.86	6.2	227.63	0.0	0.3	19.0	86.8
15:53:21	15:00	150	27.86	6.2	232.47	3.0	0.3	18.9	83.1
15:58:21	20:00	150	27.86	6.2	254.96	4.7	0.4	18.9	80.1
16:03:21	25:00	150	27.86	6.2	274.08	2.9	0.5	18.9	84.0
16:08:21	30:00	150	30.14	6.2	273.73	1.3	0.3	18.9	85.0
16:13:21	35:00	150	30.22	6.2	260.89	0.4	0.2	18.9	76.0
16:18:21	40:00	150	30.44	6.2	248.30	0.2	0.2	18.9	78.9
16:23:21	45:00	150	30.65	6.2	244.80	0.0	0.1	18.9	89.7
16:28:21	50:00	150	30.65	6.2	243.70	0.0	0.1	19.0	101.4
16:33:21	55:00	150	30.75	6.2	243.44	0.0	0.1	18.9	109.9

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

Comments: Final turbidity was 0.65. Well started by Becky Steever and completed by Katie.

Well Casing Volume Conversion

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

Well Information

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

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

Groundwater Sampling Form



Project Number	30052922	Well ID	YGWA-30I	Date	09/24/2020
Project Location	AP-2	Weather(°F)	32.0 degrees F and Cloudy. The wind is blowing undefined at 0.0 mph.		
Measuring Pt. Description	Top of Inner Casing	Screen Setting (ft-bmp)	49.18-59.18	Casing Diameter (in)	2
		Well Casing Material	PVC		
Static Water Level (ft-bmp)	43.55	Total Depth (ft-bmp)	59.48	Water Column(ft)	15.93
		Gallons in Well	2.59		
MP Elevation	762.58	Pump Intake (ft-bmp)	54.5	Purge Method	Low-Flow
		Sample Method	Low-Flow		
Sample Time	09:45	Well Volumes Purged	0.84	Sample ID	YGWA-30I
		Sampled by	Becky Steever		
Purge Start	08:55	Gallons Purged	2.18	Replicate/ Code No.	NA
		Color	Clear		

Purge End

Time	Total Elapsed Minutes	Rate (mL/min)	Depth to Water (ft)	pH (standard units)	Specific Conductivity (µS/cm)	Turbidity (NTU)	Dissolved Oxygen (mg/L)	Temperature °C	Redox (mV)
08:55:36	00:00	200	43.55	6.8	5.39	0.6	8.4	19.9	209.9
09:00:36	05:00	200	43.58	6.7	4.24	0.6	7.3	19.3	210.6
09:05:36	10:00	200	43.58	6.7	3.07	0.6	7.3	19.1	207.8
09:10:36	15:00	200	43.58	6.7	2.28	0.6	7.3	18.9	206.8
09:15:36	20:00	200	43.58	6.7	2.08	0.7	7.3	18.8	205.7
09:20:36	25:00	200	43.58	6.7	1.69	0.7	7.4	18.8	204.5
09:25:36	30:00	150	43.58	5.7	40.70	0.0	7.1	17.8	216.8
09:30:36	35:00	150	43.57	5.6	39.85	0.0	7.1	17.8	223.6
09:35:36	40:00	150	43.57	5.6	40.02	0.0	7.1	18.0	223.1
09:40:36	45:00	150	43.57	5.7	39.52	0.0	7.1	18.0	216.1

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

Comments: Confirmation turbidity 0.36 NTU

Well Casing Volume Conversion

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

Well Information

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

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

September 2020 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Jake Swanson/ Michael Guy/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 9/22/20 Time: 1030

Parameter	Units	Standard	SmarTROLL SN 611846	SmarTROLL SN 518534	SmarTROLL SN 513586	SmarTROLL SN 689918
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pH	S.U.	4.00	--	--	--	--
pH	S.U.	6.98	7.02	7.02	7.02	7.02
pH	S.U.	10.00	--	--	--	--
ORP	mV	232.0	232.1	233.2	233.1	232.8

Turbidity Standard	Units	LaMotte SN 5961-3815	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

Date: 9/23/20 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 611846	SmarTROLL SN 518534	SmarTROLL SN 513586	SmarTROLL SN 689918
DO	% saturation	100	100	100	100	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pH	S.U.	4.00	--	--	--	--
pH	S.U.	6.98	7.02	7.02	7.02	7.02
pH	S.U.	10.00	--	--	--	--
ORP	mV	233.0	233.2	229.9	234.2	232.80

Turbidity Standard	Units	LaMotte SN 5961-3815	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

September 2020 Daily Calibration Log

Project Plant Yates

Field Staff: Becky Steever/Jake Swanson/ Michael Guy/Katie Pupkiewicz/Peter Argyrakis

Instrument Calibration

Date: 9/24/20 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 611846	SmarTROLL SN 518534	SmarTROLL SN 513586	SmarTROLL SN 689918
DO	% saturation	100	100	99.9	99.9	100
Conductivity	us/cm	8000	8000	8000	8000	8000
pH	S.U.	4.00	--	--	--	--
pH	S.U.	7.00	7.02	7.00	7.00	7.00
pH	S.U.	10.00	--	--	--	--
ORP	mV	229	232.1	228.3	230.5	228.4

Turbidity Standard	Units	LaMotte SN 5961-3815	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	0.00	0.00	0.00
10.0	NTU	10.00	10.00	10.00	10.00

Date: 9/25/20 Time: 7:00

Parameter	Units	Standard	SmarTROLL SN 611846	SmarTROLL SN 518534	SmarTROLL SN 513586	SmarTROLL SN 689918
DO	% saturation	100	100	NA	100	NA
Conductivity	us/cm	8000	8000	NA	8000	NA
pH	S.U.	4.00	--	NA	--	NA
pH	S.U.	7.00	7.00	NA	7.00	NA
pH	S.U.	10.00	--	NA	--	NA
ORP	mV	228	226.0	NA	229.1	NA

Turbidity Standard	Units	LaMotte SN 5961-3815	LaMotte SN 1164-2911	LaMotte SN 6012-4015	Geotech SN 18081847
0.0	NTU	0.00	NA	0.00	NA
10.0	NTU	10.00	NA	10.00	NA

Notes:

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

Quick Cal solution standard is dependant on temperature and will fluctuate

NA = not used that day

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Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: PZ-251				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 12:01:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: PZ-25S				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 11:59:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-26S					
Person Gauging: Katie Pupkiewicz					
Date: 9/21/2020					
Time: 11:28:00					
1	Location Identification:				
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Protective Casing:				
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Surface Pad				
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Internal Casing				
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Sampling: Groundwater Wells Only:				
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report



Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-26I					
Person Gauging: Katie Pupkiewicz					
Date: 9/21/2020					
Time: 11:36:00					
1	Location Identification:				
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Protective Casing:				
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Surface Pad				
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Internal Casing				
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Sampling: Groundwater Wells Only:				
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWC-271				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 12:25:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWC-27S				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 12:29:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-28I					
Person Gauging: Katie Pupkiewicz					
Date: 9/21/2020					
Time: 12:31:00					
1	Location Identification:				
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Protective Casing:				
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Surface Pad				
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Internal Casing				
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Sampling: Groundwater Wells Only:				
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWC-28S				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 12:35:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: YGWC-29I					
Person Gauging: Katie Pupkiewicz					
Date: 9/21/2020					
Time: 12:39:00					
1	Location Identification:				
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Protective Casing:				
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Surface Pad				
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4	Internal Casing				
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Sampling: Groundwater Wells Only:				
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWA-30I				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 13:22:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2			Yes	No	N/A
Permit Number:					
Well ID: PZ-141					
Person Gauging: Katie Pupkiewicz					
Date: 9/21/2020					
Time: 13:03:00					
1	Location Identification:				
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2	Protective Casing:				
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3	Surface Pad				
	a Is the well pad in good condition (not cracked or broken)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	b Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	c Is the well pad in complete contact with the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
	e Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
4	Internal Casing				
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5	Sampling: Groundwater Wells Only:				
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	
6	Based on your professional judgement, is the well construction / location:				
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
	and 2) comply with the applicable regulatory requirements?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7	Corrective actions as needed, by date:				
8	Date by when corrective actions are needed:				

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWA-14S				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 13:05:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: PZ-31S				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 13:10:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWA-21				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 13:49:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: PZ-1S				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 14:17:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWA-1D				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 14:19:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWA-11				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 14:20:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: PZ-131				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 14:24:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: PZ-13S				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 14:25:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: PZ-3S				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 14:52:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWA-31				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 14:53:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

Groundwater Gauging Well Inspection Report



Project Location: AP-2				
Permit Number:				
Well ID: YGWA-3D				
Person Gauging: Katie Pupkiewicz				
Date: 9/21/2020				
Time: 14:55:00				
		Yes	No	N/A
1	Location Identification:			
	a Is the well visible and accessible?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well properly identified with the correct well ID?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well in a high traffic area and does the well require protection from traffic?	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
	d Is the drainage around the well acceptable? (no standing water, nor is well located in obvious drainage flow path)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
2	Protective Casing:			
	a Is the protective casing free from apparent damage and able to be secured?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of degradation or deterioration?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Does the casing have a functioning weep hole?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the annular space between casings clear of debris and water, or filled with pea gravel/sand?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
3	Surface Pad			
	a Is the well pad in good condition (not cracked or broken)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the well pad sloped away from the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well pad in complete contact with the protective casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the well pad in complete contact with the ground surface and stable? (not undermined by erosion, animal burrows, and does not move when stepped on)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the pad surface clean (not covered with sediment or debris)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
4	Internal Casing			
	a Does the cap prevent entry of foreign material into the well?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	b Is the casing free of kinks or bends, or any obstructions from foreign objects (such as bailers)?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	c Is the well properly vented for equilibration of air pressure?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	d Is the survey point clearly marked on the inner casing?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	e Is the depth of the well consistent with the original well log?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	f Is the casing stable? (or does the pvc move easily when touched or can it be taken apart by hand due to lack of grout or use of slip couplings in construction)	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
5	Sampling: Groundwater Wells Only:			
	a Does well recharge adequately when purged?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	b If dedicated sampling equipment installed, is it in good condition and specified in the approved groundwater plan for the facility?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
	c Does the well require redevelopment (low flow, turbid)?	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Based on your professional judgement, is the well construction / location:			
	appropriate to 1) achieve the objectives of the Groundwater Monitoring Program	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
	and 2) comply with the applicable regulatory requirements?	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
7	Corrective actions as needed, by date:			
8	Date by when corrective actions are needed:			

APPENDIX B

Analytical Lab and Data Validation Reports (February, March, and September 2020)



February 2020

Scan Event



February 28, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 12, 2020 and February 14, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



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

Enclosures

cc: Monte Jones, ACC
Kristen Jurinko
Matt Malone, Atlantic Coast Consulting
Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Ryan Walker



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2628972001	YGWA-1I	Water	02/10/20 15:21	02/12/20 15:15
2628972002	YGWA-1D	Water	02/10/20 14:53	02/12/20 15:15
2628972003	YGWA-2I	Water	02/11/20 12:10	02/12/20 15:15
2628972004	YGWA-3I	Water	02/11/20 16:05	02/12/20 15:15
2628972005	YGWA-3D	Water	02/12/20 10:40	02/12/20 15:15
2628972006	YGWA-30I	Water	02/12/20 14:55	02/14/20 14:39
2628972007	YGWA-14S	Water	02/12/20 13:30	02/14/20 14:39
2628972008	YGWC-26S	Water	02/13/20 10:40	02/14/20 14:39
2628972009	YGWC-26I	Water	02/13/20 11:30	02/14/20 14:39
2628972010	DUP-1	Water	02/12/20 00:00	02/14/20 14:39
2628972011	DUP-2	Water	02/13/20 00:00	02/14/20 14:39
2628972012	EB-1-2-13-20	Water	02/13/20 11:00	02/14/20 14:39
2628972013	YGWC-29I	Water	02/13/20 13:02	02/14/20 14:39
2628972014	FB-1-2-13-20	Water	02/13/20 13:30	02/14/20 14:39
2628972015	FB-2-2-13-20	Water	02/13/20 13:40	02/14/20 14:39
2628972016	EB-2-2-13-20	Water	02/13/20 13:45	02/14/20 14:39
2628972017	YGWC-27S	Water	02/13/20 11:50	02/14/20 14:39
2628972018	YGWC-27I	Water	02/13/20 10:25	02/14/20 14:39
2628972019	YGWC-28S	Water	02/13/20 13:45	02/14/20 14:39
2628972020	YGWC-28I	Water	02/13/20 14:50	02/14/20 14:39

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2628972001	YGWA-1I	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972002	YGWA-1D	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972003	YGWA-2I	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972004	YGWA-3I	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972005	YGWA-3D	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972006	YGWA-30I	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972007	YGWA-14S	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972008	YGWC-26S	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972009	YGWC-26I	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972010	DUP-1	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972011	DUP-2	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972012	EB-1-2-13-20	EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
2628972013	YGWC-29I	EPA 6020B	CSW	12	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2628972014	FB-1-2-13-20	EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2628972015	FB-2-2-13-20	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2628972016	EB-2-2-13-20	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2628972017	YGWC-27S	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2628972018	YGWC-27I	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2628972019	YGWC-28S	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
2628972020	YGWC-28I	EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A
		EPA 6020B	CSW	12	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	1	PASI-A

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2628972001	YGWA-1I					
	Field pH	6.10	Std. Units		02/17/20 08:41	
EPA 6020B	Arsenic	0.00050J	mg/L	0.0050	02/20/20 19:40	B
EPA 6020B	Barium	0.0091J	mg/L	0.010	02/20/20 19:40	
EPA 6020B	Cobalt	0.0016J	mg/L	0.0050	02/20/20 19:40	
EPA 6020B	Lithium	0.0023J	mg/L	0.030	02/20/20 19:40	
EPA 6020B	Molybdenum	0.0062J	mg/L	0.010	02/20/20 19:40	
EPA 6020B	Thallium	0.000055J	mg/L	0.0010	02/20/20 19:40	
2628972002	YGWA-1D					
	Field pH	7.20	Std. Units		02/17/20 08:41	
EPA 6020B	Antimony	0.00088J	mg/L	0.0030	02/20/20 20:03	
EPA 6020B	Arsenic	0.0026J	mg/L	0.0050	02/20/20 20:03	B
EPA 6020B	Barium	0.0066J	mg/L	0.010	02/20/20 20:03	
EPA 6020B	Chromium	0.00042J	mg/L	0.010	02/20/20 20:03	
EPA 6020B	Lead	0.000049J	mg/L	0.0050	02/20/20 20:03	
EPA 6020B	Lithium	0.011J	mg/L	0.030	02/20/20 20:03	
EPA 6020B	Molybdenum	0.0087J	mg/L	0.010	02/20/20 20:03	
EPA 300.0 Rev 2.1 1993	Fluoride	0.061J	mg/L	0.30	02/18/20 13:41	
2628972003	YGWA-2I					
	Field pH	7.38	Std. Units		02/17/20 08:41	
EPA 6020B	Antimony	0.00036J	mg/L	0.0030	02/20/20 20:08	
EPA 6020B	Arsenic	0.0044J	mg/L	0.0050	02/20/20 20:08	B
EPA 6020B	Barium	0.0036J	mg/L	0.010	02/20/20 20:08	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	02/20/20 20:08	
EPA 6020B	Molybdenum	0.0057J	mg/L	0.010	02/20/20 20:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.075J	mg/L	0.30	02/18/20 13:56	
2628972004	YGWA-3I					
	Field pH	7.09	Std. Units		02/17/20 08:41	
EPA 6020B	Arsenic	0.0041J	mg/L	0.0050	02/20/20 20:14	B
EPA 6020B	Barium	0.0031J	mg/L	0.010	02/20/20 20:14	
EPA 6020B	Lithium	0.013J	mg/L	0.030	02/20/20 20:14	
EPA 6020B	Molybdenum	0.0030J	mg/L	0.010	02/20/20 20:14	
EPA 300.0 Rev 2.1 1993	Fluoride	0.094J	mg/L	0.30	02/18/20 14:11	
2628972005	YGWA-3D					
	Field pH	7.83	Std. Units		02/17/20 08:41	
EPA 6020B	Arsenic	0.0038J	mg/L	0.0050	02/20/20 20:20	B
EPA 6020B	Barium	0.0062J	mg/L	0.010	02/20/20 20:20	
EPA 6020B	Lithium	0.019J	mg/L	0.030	02/20/20 20:20	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	02/20/20 20:20	
EPA 300.0 Rev 2.1 1993	Fluoride	0.40	mg/L	0.30	02/18/20 14:26	
2628972006	YGWA-30I					
	Field pH	5.80	Std. Units		02/17/20 08:41	
EPA 6020B	Arsenic	0.0032J	mg/L	0.0050	02/20/20 22:09	B
EPA 6020B	Barium	0.0073J	mg/L	0.010	02/20/20 22:09	
EPA 6020B	Cobalt	0.014	mg/L	0.0050	02/20/20 22:09	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2628972006	YGWA-30I					
EPA 6020B	Lithium	0.0013J	mg/L	0.030	02/20/20 22:09	
2628972007	YGWA-14S					
	Field pH	5.48	Std. Units		02/17/20 08:41	
EPA 6020B	Barium	0.0070J	mg/L	0.010	02/24/20 15:23	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	02/24/20 15:23	
EPA 6020B	Thallium	0.000089J	mg/L	0.0010	02/24/20 15:23	
2628972008	YGWC-26S					
	Field pH	5.29	Std. Units		02/17/20 08:41	
EPA 6020B	Antimony	0.0016J	mg/L	0.0030	02/24/20 15:46	
EPA 6020B	Barium	0.025	mg/L	0.010	02/24/20 15:46	
EPA 6020B	Beryllium	0.00015J	mg/L	0.0030	02/24/20 15:46	
EPA 6020B	Chromium	0.0012J	mg/L	0.010	02/24/20 15:46	
EPA 6020B	Cobalt	0.0019J	mg/L	0.0050	02/24/20 15:46	
EPA 6020B	Thallium	0.000057J	mg/L	0.0010	02/24/20 15:46	
2628972009	YGWC-26I					
	Field pH	5.93	Std. Units		02/17/20 08:41	
EPA 6020B	Antimony	0.00052J	mg/L	0.0030	02/24/20 15:52	
EPA 6020B	Barium	0.060	mg/L	0.010	02/24/20 15:52	
EPA 6020B	Chromium	0.00044J	mg/L	0.010	02/24/20 15:52	
EPA 6020B	Lithium	0.0073J	mg/L	0.030	02/24/20 15:52	
EPA 6020B	Selenium	0.0019J	mg/L	0.010	02/24/20 15:52	
2628972010	DUP-1					
EPA 6020B	Antimony	0.00028J	mg/L	0.0030	02/24/20 15:57	
EPA 6020B	Barium	0.0076J	mg/L	0.010	02/24/20 15:57	
EPA 6020B	Beryllium	0.00023J	mg/L	0.0030	02/24/20 15:57	
EPA 6020B	Chromium	0.00065J	mg/L	0.010	02/24/20 15:57	
2628972011	DUP-2					
EPA 6020B	Barium	0.017	mg/L	0.010	02/24/20 16:03	
EPA 6020B	Beryllium	0.00014J	mg/L	0.0030	02/24/20 16:03	
2628972013	YGWC-29I					
	Field pH	6.32	Std. Units		02/17/20 08:41	
EPA 6020B	Barium	0.053	mg/L	0.010	02/24/20 16:33	
EPA 6020B	Cadmium	0.00018J	mg/L	0.0025	02/24/20 16:33	
EPA 6020B	Lithium	0.0057J	mg/L	0.030	02/24/20 16:33	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.30	02/21/20 15:57	
2628972017	YGWC-27S					
	Field pH	6.31	Std. Units		02/17/20 08:41	
EPA 6020B	Barium	0.097	mg/L	0.010	02/24/20 16:55	
EPA 6020B	Cobalt	0.0026J	mg/L	0.0050	02/24/20 16:55	
EPA 6020B	Lead	0.000062J	mg/L	0.0050	02/24/20 16:55	
EPA 6020B	Thallium	0.00010J	mg/L	0.0010	02/24/20 16:55	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11J	mg/L	0.30	02/21/20 17:21	

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2628972018	YGWC-27I					
	Field pH	6.40	Std. Units		02/17/20 08:41	
EPA 6020B	Arsenic	0.00055J	mg/L	0.0050	02/24/20 17:01	
EPA 6020B	Barium	0.063	mg/L	0.010	02/24/20 17:01	
EPA 6020B	Beryllium	0.00021J	mg/L	0.0030	02/24/20 17:01	
EPA 6020B	Cobalt	0.012	mg/L	0.0050	02/24/20 17:01	
EPA 6020B	Lithium	0.0079J	mg/L	0.030	02/24/20 17:01	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	02/24/20 17:01	
2628972019	YGWC-28S					
	Field pH	6.53	Std. Units		02/17/20 08:41	
EPA 6020B	Arsenic	0.00065J	mg/L	0.0050	02/24/20 17:07	
EPA 6020B	Barium	0.21	mg/L	0.010	02/24/20 17:07	
EPA 6020B	Cobalt	0.00092J	mg/L	0.0050	02/24/20 17:07	
EPA 6020B	Lead	0.000054J	mg/L	0.0050	02/24/20 17:07	
EPA 300.0 Rev 2.1 1993	Fluoride	0.18J	mg/L	0.30	02/21/20 18:31	
2628972020	YGWC-28I					
	Field pH	6.49	Std. Units		02/17/20 08:41	
EPA 6020B	Barium	0.089	mg/L	0.010	02/24/20 17:13	
EPA 6020B	Cadmium	0.00013J	mg/L	0.0025	02/24/20 17:13	
EPA 6020B	Chromium	0.00047J	mg/L	0.010	02/24/20 17:13	
EPA 6020B	Lithium	0.0069J	mg/L	0.030	02/24/20 17:13	
EPA 6020B	Molybdenum	0.0013J	mg/L	0.010	02/24/20 17:13	
EPA 300.0 Rev 2.1 1993	Fluoride	0.14J	mg/L	0.30	02/21/20 18:45	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWA-1I		Lab ID: 2628972001		Collected: 02/10/20 15:21		Received: 02/12/20 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	6.10	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	02/19/20 13:38	02/20/20 19:40	7440-36-0	
Arsenic	0.00050J	mg/L	0.0050	0.00035	1	02/19/20 13:38	02/20/20 19:40	7440-38-2	B
Barium	0.0091J	mg/L	0.010	0.00049	1	02/19/20 13:38	02/20/20 19:40	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/19/20 13:38	02/20/20 19:40	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/19/20 13:38	02/20/20 19:40	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/19/20 13:38	02/20/20 19:40	7440-47-3	
Cobalt	0.0016J	mg/L	0.0050	0.00030	1	02/19/20 13:38	02/20/20 19:40	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/19/20 13:38	02/20/20 19:40	7439-92-1	
Lithium	0.0023J	mg/L	0.030	0.00078	1	02/19/20 13:38	02/20/20 19:40	7439-93-2	
Molybdenum	0.0062J	mg/L	0.010	0.00095	1	02/19/20 13:38	02/20/20 19:40	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/19/20 13:38	02/20/20 19:40	7782-49-2	
Thallium	0.000055J	mg/L	0.0010	0.000052	1	02/19/20 13:38	02/20/20 19:40	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/18/20 16:17	02/19/20 16:55	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.30	0.050	1		02/18/20 12:57	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWA-1D		Lab ID: 2628972002		Collected: 02/10/20 14:53		Received: 02/12/20 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	7.20	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	0.00088J	mg/L	0.0030	0.00027	1	02/19/20 13:38	02/20/20 20:03	7440-36-0	
Arsenic	0.0026J	mg/L	0.0050	0.00035	1	02/19/20 13:38	02/20/20 20:03	7440-38-2	B
Barium	0.0066J	mg/L	0.010	0.00049	1	02/19/20 13:38	02/20/20 20:03	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/19/20 13:38	02/20/20 20:03	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/19/20 13:38	02/20/20 20:03	7440-43-9	
Chromium	0.00042J	mg/L	0.010	0.00039	1	02/19/20 13:38	02/20/20 20:03	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	02/19/20 13:38	02/20/20 20:03	7440-48-4	
Lead	0.000049J	mg/L	0.0050	0.000046	1	02/19/20 13:38	02/20/20 20:03	7439-92-1	
Lithium	0.011J	mg/L	0.030	0.00078	1	02/19/20 13:38	02/20/20 20:03	7439-93-2	
Molybdenum	0.0087J	mg/L	0.010	0.00095	1	02/19/20 13:38	02/20/20 20:03	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/19/20 13:38	02/20/20 20:03	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/19/20 13:38	02/20/20 20:03	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	02/18/20 16:17	02/19/20 17:09	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Fluoride	0.061J	mg/L	0.30	0.050	1		02/18/20 13:41	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Sample: YGWA-2I		Lab ID: 2628972003		Collected: 02/11/20 12:10		Received: 02/12/20 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	7.38	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.00036J	mg/L	0.0030	0.00027	1	02/19/20 13:38	02/20/20 20:08	7440-36-0	
Arsenic	0.0044J	mg/L	0.0050	0.00035	1	02/19/20 13:38	02/20/20 20:08	7440-38-2	B
Barium	0.0036J	mg/L	0.010	0.00049	1	02/19/20 13:38	02/20/20 20:08	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/19/20 13:38	02/20/20 20:08	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/19/20 13:38	02/20/20 20:08	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/19/20 13:38	02/20/20 20:08	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	02/19/20 13:38	02/20/20 20:08	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/19/20 13:38	02/20/20 20:08	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00078	1	02/19/20 13:38	02/20/20 20:08	7439-93-2	
Molybdenum	0.0057J	mg/L	0.010	0.00095	1	02/19/20 13:38	02/20/20 20:08	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/19/20 13:38	02/20/20 20:08	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/19/20 13:38	02/20/20 20:08	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/18/20 16:17	02/19/20 17:11	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.075J	mg/L	0.30	0.050	1		02/18/20 13:56	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWA-3I		Lab ID: 2628972004		Collected: 02/11/20 16:05		Received: 02/12/20 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	7.09	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	02/19/20 13:38	02/20/20 20:14	7440-36-0	
Arsenic	0.0041J	mg/L	0.0050	0.00035	1	02/19/20 13:38	02/20/20 20:14	7440-38-2	B
Barium	0.0031J	mg/L	0.010	0.00049	1	02/19/20 13:38	02/20/20 20:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/19/20 13:38	02/20/20 20:14	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/19/20 13:38	02/20/20 20:14	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/19/20 13:38	02/20/20 20:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	02/19/20 13:38	02/20/20 20:14	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/19/20 13:38	02/20/20 20:14	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00078	1	02/19/20 13:38	02/20/20 20:14	7439-93-2	
Molybdenum	0.0030J	mg/L	0.010	0.00095	1	02/19/20 13:38	02/20/20 20:14	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/19/20 13:38	02/20/20 20:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/19/20 13:38	02/20/20 20:14	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/18/20 16:17	02/19/20 17:14	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.094J	mg/L	0.30	0.050	1		02/18/20 14:11	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Sample: YGWA-3D		Lab ID: 2628972005		Collected: 02/12/20 10:40		Received: 02/12/20 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	7.83	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	02/19/20 13:38	02/20/20 20:20	7440-36-0	
Arsenic	0.0038J	mg/L	0.0050	0.00035	1	02/19/20 13:38	02/20/20 20:20	7440-38-2	B
Barium	0.0062J	mg/L	0.010	0.00049	1	02/19/20 13:38	02/20/20 20:20	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/19/20 13:38	02/20/20 20:20	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/19/20 13:38	02/20/20 20:20	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/19/20 13:38	02/20/20 20:20	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	02/19/20 13:38	02/20/20 20:20	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/19/20 13:38	02/20/20 20:20	7439-92-1	
Lithium	0.019J	mg/L	0.030	0.00078	1	02/19/20 13:38	02/20/20 20:20	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00095	1	02/19/20 13:38	02/20/20 20:20	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/19/20 13:38	02/20/20 20:20	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/19/20 13:38	02/20/20 20:20	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/18/20 16:17	02/19/20 17:16	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	0.40	mg/L	0.30	0.050	1		02/18/20 14:26	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Sample: YGWA-30I		Lab ID: 2628972006		Collected: 02/12/20 14:55		Received: 02/14/20 14:39		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	5.80	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	02/19/20 13:38	02/20/20 22:09	7440-36-0	
Arsenic	0.0032J	mg/L	0.0050	0.00035	1	02/19/20 13:38	02/20/20 22:09	7440-38-2	B
Barium	0.0073J	mg/L	0.010	0.00049	1	02/19/20 13:38	02/20/20 22:09	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/19/20 13:38	02/20/20 22:09	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/19/20 13:38	02/20/20 22:09	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/19/20 13:38	02/20/20 22:09	7440-47-3	
Cobalt	0.014	mg/L	0.0050	0.00030	1	02/19/20 13:38	02/20/20 22:09	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/19/20 13:38	02/20/20 22:09	7439-92-1	
Lithium	0.0013J	mg/L	0.030	0.00078	1	02/19/20 13:38	02/20/20 22:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	02/19/20 13:38	02/20/20 22:09	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/19/20 13:38	02/20/20 22:09	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/19/20 13:38	02/20/20 22:09	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 09:49	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 13:50	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWA-14S		Lab ID: 2628972007		Collected: 02/12/20 13:30		Received: 02/14/20 14:39		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	5.48	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 15:23	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 15:23	7440-38-2	
Barium	0.0070J	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 15:23	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 15:23	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 15:23	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 15:23	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 15:23	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 15:23	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 15:23	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 15:23	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 15:23	7782-49-2	
Thallium	0.000089J	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 15:23	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:03	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 14:04	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWC-26S		Lab ID: 2628972008		Collected: 02/13/20 10:40		Received: 02/14/20 14:39		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data	Analytical Method:								
Field pH	5.29	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS	Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.0016J	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 15:46	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 15:46	7440-38-2	
Barium	0.025	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 15:46	7440-39-3	
Beryllium	0.00015J	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 15:46	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 15:46	7440-43-9	
Chromium	0.0012J	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 15:46	7440-47-3	
Cobalt	0.0019J	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 15:46	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 15:46	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 15:46	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 15:46	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 15:46	7782-49-2	
Thallium	0.000057J	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 15:46	7440-28-0	
7470 Mercury	Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:06	7439-97-6	
300.0 IC Anions 28 Days	Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 14:18	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWC-26I		Lab ID: 2628972009		Collected: 02/13/20 11:30		Received: 02/14/20 14:39		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	5.93	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	0.00052J	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 15:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 15:52	7440-38-2	
Barium	0.060	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 15:52	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 15:52	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 15:52	7440-43-9	
Chromium	0.00044J	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 15:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 15:52	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 15:52	7439-92-1	
Lithium	0.0073J	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 15:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 15:52	7439-98-7	
Selenium	0.0019J	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 15:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 15:52	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:08	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 14:32	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Sample: DUP-1		Lab ID: 2628972010		Collected: 02/12/20 00:00		Received: 02/14/20 14:39		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	0.00028J	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 15:57	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 15:57	7440-38-2		
Barium	0.0076J	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 15:57	7440-39-3		
Beryllium	0.00023J	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 15:57	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 15:57	7440-43-9		
Chromium	0.00065J	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 15:57	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 15:57	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 15:57	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 15:57	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 15:57	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 15:57	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 15:57	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:10	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 14:46	16984-48-8		

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: DUP-2		Lab ID: 2628972011		Collected: 02/13/20 00:00		Received: 02/14/20 14:39		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 16:03	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 16:03	7440-38-2		
Barium	0.017	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 16:03	7440-39-3		
Beryllium	0.00014J	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 16:03	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 16:03	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 16:03	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 16:03	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 16:03	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 16:03	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 16:03	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 16:03	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 16:03	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:13	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 15:28	16984-48-8		

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: EB-1-2-13-20		Lab ID: 2628972012		Collected: 02/13/20 11:00		Received: 02/14/20 14:39		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 16:27	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 16:27	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 16:27	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 16:27	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 16:27	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 16:27	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 16:27	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 16:27	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 16:27	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 16:27	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 16:27	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 16:27	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:15	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 15:43	16984-48-8		

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWC-29I		Lab ID: 2628972013		Collected: 02/13/20 13:02		Received: 02/14/20 14:39		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.32	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 16:33	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 16:33	7440-38-2	
Barium	0.053	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 16:33	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 16:33	7440-41-7	
Cadmium	0.00018J	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 16:33	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 16:33	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 16:33	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 16:33	7439-92-1	
Lithium	0.0057J	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 16:33	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 16:33	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 16:33	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 16:33	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:18	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Fluoride	0.053J	mg/L	0.30	0.050	1		02/21/20 15:57	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Sample: FB-1-2-13-20		Lab ID: 2628972014		Collected: 02/13/20 13:30		Received: 02/14/20 14:39		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 16:38	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 16:38	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 16:38	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 16:38	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 16:38	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 16:38	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 16:38	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 16:38	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 16:38	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 16:38	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 16:38	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 16:38	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:20	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 16:11	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: FB-2-2-13-20		Lab ID: 2628972015		Collected: 02/13/20 13:40		Received: 02/14/20 14:39		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 16:44	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 16:44	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 16:44	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 16:44	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 16:44	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 16:44	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 16:44	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 16:44	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 16:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 16:44	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 16:44	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 16:44	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:22	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 16:25	16984-48-8		

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: EB-2-2-13-20		Lab ID: 2628972016		Collected: 02/13/20 13:45		Received: 02/14/20 14:39		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 16:50	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 16:50	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 16:50	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 16:50	7440-41-7		
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 16:50	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 16:50	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 16:50	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 16:50	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 16:50	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 16:50	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 16:50	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 16:50	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:25	7439-97-6		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 17:07	16984-48-8		

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWC-27S		Lab ID: 2628972017		Collected: 02/13/20 11:50		Received: 02/14/20 14:39		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.31	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 16:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 16:55	7440-38-2	
Barium	0.097	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 16:55	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 16:55	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 16:55	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 16:55	7440-47-3	
Cobalt	0.0026J	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 16:55	7440-48-4	
Lead	0.000062J	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 16:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 16:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 16:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 16:55	7782-49-2	
Thallium	0.00010J	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 16:55	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:32	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Fluoride	0.11J	mg/L	0.30	0.050	1		02/21/20 17:21	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

Sample: YGWC-271		Lab ID: 2628972018		Collected: 02/13/20 10:25		Received: 02/14/20 14:39		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.40	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 17:01	7440-36-0	
Arsenic	0.00055J	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 17:01	7440-38-2	
Barium	0.063	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 17:01	7440-39-3	
Beryllium	0.00021J	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 17:01	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 17:01	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 17:01	7440-47-3	
Cobalt	0.012	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 17:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 17:01	7439-92-1	
Lithium	0.0079J	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 17:01	7439-93-2	
Molybdenum	0.0014J	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 17:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 17:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 17:01	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:34	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Fluoride	ND	mg/L	0.30	0.050	1		02/21/20 17:35	16984-48-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWC-28S		Lab ID: 2628972019		Collected: 02/13/20 13:45		Received: 02/14/20 14:39		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data		Analytical Method:							
Field pH	6.53	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 17:07	7440-36-0	
Arsenic	0.00065J	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 17:07	7440-38-2	
Barium	0.21	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 17:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 17:07	7440-41-7	
Cadmium	ND	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 17:07	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 17:07	7440-47-3	
Cobalt	0.00092J	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 17:07	7440-48-4	
Lead	0.000054J	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 17:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 17:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 17:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 17:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 17:07	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:36	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Fluoride	0.18J	mg/L	0.30	0.050	1		02/21/20 18:31	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Sample: YGWC-28I		Lab ID: 2628972020		Collected: 02/13/20 14:50		Received: 02/14/20 14:39		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method:									
Field pH	6.49	Std. Units			1		02/17/20 08:41		
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Antimony	ND	mg/L	0.0030	0.00027	1	02/22/20 17:25	02/24/20 17:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	02/22/20 17:25	02/24/20 17:13	7440-38-2	
Barium	0.089	mg/L	0.010	0.00049	1	02/22/20 17:25	02/24/20 17:13	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	02/22/20 17:25	02/24/20 17:13	7440-41-7	
Cadmium	0.00013J	mg/L	0.0025	0.00011	1	02/22/20 17:25	02/24/20 17:13	7440-43-9	
Chromium	0.00047J	mg/L	0.010	0.00039	1	02/22/20 17:25	02/24/20 17:13	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	02/22/20 17:25	02/24/20 17:13	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	02/22/20 17:25	02/24/20 17:13	7439-92-1	
Lithium	0.0069J	mg/L	0.030	0.00078	1	02/22/20 17:25	02/24/20 17:13	7439-93-2	
Molybdenum	0.0013J	mg/L	0.010	0.00095	1	02/22/20 17:25	02/24/20 17:13	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	02/22/20 17:25	02/24/20 17:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	02/22/20 17:25	02/24/20 17:13	7440-28-0	
7470 Mercury									
Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.00014	1	02/24/20 11:27	02/25/20 10:39	7439-97-6	
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Fluoride	0.14J	mg/L	0.30	0.050	1		02/21/20 18:45	16984-48-8	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

QC Batch: 43498

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005

METHOD BLANK: 199117

Matrix: Water

Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.00016J	0.00050	0.00014	02/19/20 16:43	

LABORATORY CONTROL SAMPLE: 199118

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0029	115	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 199119 199120

Parameter	Units	199119		199120		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2628972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0024	0.0025	95	98	75-125	3	20

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

QC Batch: 43742 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

METHOD BLANK: 200407 Matrix: Water
 Associated Lab Samples: 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	02/25/20 09:37	

LABORATORY CONTROL SAMPLE: 200408

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0024	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 200409 200410

Parameter	Units	2628972006 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	0.0020	97	82	75-125	17	20	

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

QC Batch: 43544 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005, 2628972006

METHOD BLANK: 199284 Matrix: Water
 Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005, 2628972006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	02/20/20 19:28	
Arsenic	mg/L	0.00079J	0.0050	0.00035	02/20/20 19:28	
Barium	mg/L	ND	0.010	0.00049	02/20/20 19:28	
Beryllium	mg/L	ND	0.0030	0.000074	02/20/20 19:28	
Cadmium	mg/L	ND	0.0025	0.00011	02/20/20 19:28	
Chromium	mg/L	ND	0.010	0.00039	02/20/20 19:28	
Cobalt	mg/L	ND	0.0050	0.00030	02/20/20 19:28	
Lead	mg/L	ND	0.0050	0.000046	02/20/20 19:28	
Lithium	mg/L	ND	0.030	0.00078	02/20/20 19:28	
Molybdenum	mg/L	ND	0.010	0.00095	02/20/20 19:28	
Selenium	mg/L	ND	0.010	0.0013	02/20/20 19:28	
Thallium	mg/L	ND	0.0010	0.000052	02/20/20 19:28	

LABORATORY CONTROL SAMPLE: 199285

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	0.10	102	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Cadmium	mg/L	0.1	0.10	102	80-120	
Chromium	mg/L	0.1	0.11	108	80-120	
Cobalt	mg/L	0.1	0.10	105	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	0.11	107	80-120	
Selenium	mg/L	0.1	0.10	103	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 199286 199287

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2628972001 Result	Spike Conc.	Spike Conc.	MSD Result							
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20	
Arsenic	mg/L	0.00050J	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Barium	mg/L	0.0091J	0.1	0.1	0.11	0.11	102	103	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.095	0.090	95	90	75-125	5	20	
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	102	103	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Parameter	Units	199286		199287		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2628972001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Chromium	mg/L	ND	0.1	0.1	0.11	0.11	105	106	75-125	0	20	
Cobalt	mg/L	0.0016J	0.1	0.1	0.11	0.10	104	103	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20	
Lithium	mg/L	0.0023J	0.1	0.1	0.096	0.095	94	92	75-125	1	20	
Molybdenum	mg/L	0.0062J	0.1	0.1	0.11	0.11	107	108	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	2	20	
Thallium	mg/L	0.000055J	0.1	0.1	0.10	0.10	102	102	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

QC Batch: 43713 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

METHOD BLANK: 200292 Matrix: Water
Associated Lab Samples: 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00027	02/24/20 15:12	
Arsenic	mg/L	ND	0.0050	0.00035	02/24/20 15:12	
Barium	mg/L	ND	0.010	0.00049	02/24/20 15:12	
Beryllium	mg/L	ND	0.0030	0.000074	02/24/20 15:12	
Cadmium	mg/L	ND	0.0025	0.00011	02/24/20 15:12	
Chromium	mg/L	ND	0.010	0.00039	02/24/20 15:12	
Cobalt	mg/L	ND	0.0050	0.00030	02/24/20 15:12	
Lead	mg/L	ND	0.0050	0.000046	02/24/20 15:12	
Lithium	mg/L	ND	0.030	0.00078	02/24/20 15:12	
Molybdenum	mg/L	ND	0.010	0.00095	02/24/20 15:12	
Selenium	mg/L	ND	0.010	0.0013	02/24/20 15:12	
Thallium	mg/L	ND	0.0010	0.000052	02/24/20 15:12	

LABORATORY CONTROL SAMPLE: 200293

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	107	80-120	
Arsenic	mg/L	0.1	0.095	95	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 200294 200295

Parameter	Units	2628972007 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	105	75-125	1	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20	
Barium	mg/L	0.0070J	0.1	0.1	0.11	0.11	103	100	75-125	3	20	
Beryllium	mg/L	0.00019J	0.1	0.1	0.11	0.11	105	106	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Parameter	Units	200294		200295		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Cadmium	mg/L	ND	0.1	0.1	0.10	0.099	101	99	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20		
Cobalt	mg/L	ND	0.1	0.1	0.11	0.10	106	103	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.096	0.095	96	95	75-125	0	20		
Lithium	mg/L	ND	0.1	0.1	0.11	0.11	106	106	75-125	0	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.099	100	99	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.097	100	95	75-125	5	20		
Thallium	mg/L	0.000089J	0.1	0.1	0.097	0.095	97	95	75-125	2	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

QC Batch: 525418 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005

METHOD BLANK: 2808346 Matrix: Water
Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/18/20 08:29	

LABORATORY CONTROL SAMPLE: 2808347

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.4	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2808348 2808349

Parameter	Units	2808348		2808349		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result						
Fluoride	mg/L	0.058J	2.5	2.5	2.5	2.4	97	94	90-110	3	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2808350 2808351

Parameter	Units	2808350		2808351		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Result	MSD Result						
Fluoride	mg/L	ND	2.5	2.5	2.3	2.3	93	92	90-110	0	10

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

QC Batch: 526047 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

METHOD BLANK: 2811595 Matrix: Water
 Associated Lab Samples: 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012, 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.10	0.050	02/21/20 12:40	

LABORATORY CONTROL SAMPLE: 2811596

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	2.5	2.7	109	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2811597 2811598

Parameter	Units	2628973020 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
Fluoride	mg/L	ND	2.5	2.5	2.8	2.6	112	104	90-110	7	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2811599 2811600

Parameter	Units	2628972015 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	RPD	RPD	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits				
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	108	107	90-110	1	10		

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: PLANT YATES AP-2 - FEB EVENT
Pace Project No.: 2628972

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.

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.

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

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

TNI - The NELAC Institute.

LABORATORIES

PASI-A Pace Analytical Services - Asheville

PASI-GA Pace Analytical Services - Atlanta, GA

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2628972001	YGWA-1I				
2628972002	YGWA-1D				
2628972003	YGWA-2I				
2628972004	YGWA-3I				
2628972005	YGWA-3D				
2628972006	YGWA-30I				
2628972007	YGWA-14S				
2628972008	YGWC-26S				
2628972009	YGWC-26I				
2628972013	YGWC-29I				
2628972017	YGWC-27S				
2628972018	YGWC-27I				
2628972019	YGWC-28S				
2628972020	YGWC-28I				
2628972001	YGWA-1I	EPA 3005A	43544	EPA 6020B	43556
2628972002	YGWA-1D	EPA 3005A	43544	EPA 6020B	43556
2628972003	YGWA-2I	EPA 3005A	43544	EPA 6020B	43556
2628972004	YGWA-3I	EPA 3005A	43544	EPA 6020B	43556
2628972005	YGWA-3D	EPA 3005A	43544	EPA 6020B	43556
2628972006	YGWA-30I	EPA 3005A	43544	EPA 6020B	43556
2628972007	YGWA-14S	EPA 3005A	43713	EPA 6020B	43729
2628972008	YGWC-26S	EPA 3005A	43713	EPA 6020B	43729
2628972009	YGWC-26I	EPA 3005A	43713	EPA 6020B	43729
2628972010	DUP-1	EPA 3005A	43713	EPA 6020B	43729
2628972011	DUP-2	EPA 3005A	43713	EPA 6020B	43729
2628972012	EB-1-2-13-20	EPA 3005A	43713	EPA 6020B	43729
2628972013	YGWC-29I	EPA 3005A	43713	EPA 6020B	43729
2628972014	FB-1-2-13-20	EPA 3005A	43713	EPA 6020B	43729
2628972015	FB-2-2-13-20	EPA 3005A	43713	EPA 6020B	43729
2628972016	EB-2-2-13-20	EPA 3005A	43713	EPA 6020B	43729
2628972017	YGWC-27S	EPA 3005A	43713	EPA 6020B	43729
2628972018	YGWC-27I	EPA 3005A	43713	EPA 6020B	43729
2628972019	YGWC-28S	EPA 3005A	43713	EPA 6020B	43729
2628972020	YGWC-28I	EPA 3005A	43713	EPA 6020B	43729
2628972001	YGWA-1I	EPA 7470A	43498	EPA 7470A	43503
2628972002	YGWA-1D	EPA 7470A	43498	EPA 7470A	43503
2628972003	YGWA-2I	EPA 7470A	43498	EPA 7470A	43503
2628972004	YGWA-3I	EPA 7470A	43498	EPA 7470A	43503
2628972005	YGWA-3D	EPA 7470A	43498	EPA 7470A	43503
2628972006	YGWA-30I	EPA 7470A	43742	EPA 7470A	43802
2628972007	YGWA-14S	EPA 7470A	43742	EPA 7470A	43802
2628972008	YGWC-26S	EPA 7470A	43742	EPA 7470A	43802
2628972009	YGWC-26I	EPA 7470A	43742	EPA 7470A	43802
2628972010	DUP-1	EPA 7470A	43742	EPA 7470A	43802
2628972011	DUP-2	EPA 7470A	43742	EPA 7470A	43802
2628972012	EB-1-2-13-20	EPA 7470A	43742	EPA 7470A	43802
2628972013	YGWC-29I	EPA 7470A	43742	EPA 7470A	43802

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES AP-2 - FEB EVENT

Pace Project No.: 2628972

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2628972014	FB-1-2-13-20	EPA 7470A	43742	EPA 7470A	43802
2628972015	FB-2-2-13-20	EPA 7470A	43742	EPA 7470A	43802
2628972016	EB-2-2-13-20	EPA 7470A	43742	EPA 7470A	43802
2628972017	YGWC-27S	EPA 7470A	43742	EPA 7470A	43802
2628972018	YGWC-27I	EPA 7470A	43742	EPA 7470A	43802
2628972019	YGWC-28S	EPA 7470A	43742	EPA 7470A	43802
2628972020	YGWC-28I	EPA 7470A	43742	EPA 7470A	43802
2628972001	YGWA-11	EPA 300.0 Rev 2.1 1993	525418		
2628972002	YGWA-1D	EPA 300.0 Rev 2.1 1993	525418		
2628972003	YGWA-2I	EPA 300.0 Rev 2.1 1993	525418		
2628972004	YGWA-3I	EPA 300.0 Rev 2.1 1993	525418		
2628972005	YGWA-3D	EPA 300.0 Rev 2.1 1993	525418		
2628972006	YGWA-30I	EPA 300.0 Rev 2.1 1993	526047		
2628972007	YGWA-14S	EPA 300.0 Rev 2.1 1993	526047		
2628972008	YGWC-26S	EPA 300.0 Rev 2.1 1993	526047		
2628972009	YGWC-26I	EPA 300.0 Rev 2.1 1993	526047		
2628972010	DUP-1	EPA 300.0 Rev 2.1 1993	526047		
2628972011	DUP-2	EPA 300.0 Rev 2.1 1993	526047		
2628972012	EB-1-2-13-20	EPA 300.0 Rev 2.1 1993	526047		
2628972013	YGWC-29I	EPA 300.0 Rev 2.1 1993	526047		
2628972014	FB-1-2-13-20	EPA 300.0 Rev 2.1 1993	526047		
2628972015	FB-2-2-13-20	EPA 300.0 Rev 2.1 1993	526047		
2628972016	EB-2-2-13-20	EPA 300.0 Rev 2.1 1993	526047		
2628972017	YGWC-27S	EPA 300.0 Rev 2.1 1993	526047		
2628972018	YGWC-27I	EPA 300.0 Rev 2.1 1993	526047		
2628972019	YGWC-28S	EPA 300.0 Rev 2.1 1993	526047		
2628972020	YGWC-28I	EPA 300.0 Rev 2.1 1993	526047		

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

Section A Required Client Information: **Section B** Required Project Information: **Section C** Invoice Information: **Page:** _____ **of** _____ **Page 40 of 46**

Company: GA Power Report To: SCS Contacts
 Address: Atlanta, GA Copy To: ACC Contacts
 Email To: SCS Contacts Purchase Order No.:
 Project Name: Plant Yates AP-2 - Feb Event
 Project Number:
 Company Name: Southern Co.
 Address:
 Pace Order #:
 Pace Project Manager: Kevin Heiting
 Pace Order #: 2916-1
 Site Location: GA
 STATE: _____

ITEM #	Section D Required Client Information Valid Matrix Codes DRAINAGE WATER DW WATER WWT WASTE WATER WW PRODUCT P SOIL/SLURRY SLS OIL OL WIPE WI AIR AR OTHER OT TS	Section E Required Client Information MATRIX CODE SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives									Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)
			COMPOSITE START	COMPOSITE END/GRAB							Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₅	Methanol	Other	Analysis Test		

1	YGMWA-30I	W6		2-18-20	1455	4	1	3							X	X	X							PH=5.80
2	YGMWA-14S	W6		2-17-20	1330	4	1	3							X	X	X							PH=5.48
3	YGMWA-20S	W6		2-13-20	1040	6	1	3							X	X	X							PH=5.29 Extra End
4	YGMWA-26I	W6		2-8-20	1130	4	1	3							X	X	X							PH=5.93
5	Dup-1	W6		2-18-20	---	4	1	3							X	X	X							
6	Dup-2	W6		2-18-20	---	4	1	3							X	X	X							
7	EB-1-2-18-20	W6		2-18-20	1100	4	1	3							X	X	X							
8	YGUC-24I	W5		2-18-20	1302	4	1	3							X	X	X							
9	FB-1-2-13-20	W6		2-13-20	1330	4	1	3							X	X	X							
10	FB-2-2-13-20	W6		2-13-20	1340	4	1	3							X	X	X							
11	EB-2-2-13-20	W6		2-13-20	1345	4	1	3							X	X	X							
12	PHD-1	W6					1	3							X	X	X							

ADDITIONAL COMMENTS RELINQUISHED BY / AFFILIATION: **DATE**: 2/14/20 **TIME**: 1439
ACCEPTED BY / AFFILIATION: **DATE**: 2/19/20 **TIME**: 1439

Please note dry weils and note when the last sample for the event has been taken.

SAMPLER NAME AND SIGNATURE		DATE	TIME	DATE	TIME	TEMP IN °C	RECEIVED ON ICE (Y/N)	COOLING (Y/N)	SEALING (Y/N)	SAMPLES INTACT (Y/N)
[Signature]		2/14/20	1439	2/19/20	1439	8.7	Y	N	Y	Y

Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.
 Pace Analytical, Inc. 02/07/07



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

Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company:	GA Power	Report To:	SCS Contacts	Purchase Order No.:		Company Name:	Southern Co.	REGULATORY AGENCY	<input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER
Address:	Atlanta, GA	Copy To:	ACC Contacts	Address:		Address:		<input type="checkbox"/> UST <input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER <input type="checkbox"/> CCR
Email To:	SCS Contacts	Phone:		Project Name:	Plant Yates AP-2 - Feb Event	Pace Card:		Site Location	GA
Requested Date Data/TAT:	10 Day	Project Number:		Pace Project Manager:	Kevin Harting	Pace Project Manager:	2916-1	STATE:	

ITEM #	Section D Requested Client Information	Valid Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	PH	Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
				DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl								
1	Y6WC-275	G	G	2-14-20	1150	4	1	X	X	X	X	X	X	X	X	X	37	Y	N	Y	
2	Y6WC-271	G	G		1025	4	1	X	X	X	X	X	X	X	X	X					
3	Y6WC-285	G	G		1345	4	1	X	X	X	X	X	X	X	X	X					
4	Y6WC-281	G	G		1450	4	1	X	X	X	X	X	X	X	X	X					
5							1	X	X	X	X	X	X	X	X	X					
6							1	X	X	X	X	X	X	X	X	X					
7							1	X	X	X	X	X	X	X	X	X					
8							1	X	X	X	X	X	X	X	X	X					
9							1	X	X	X	X	X	X	X	X	X					
10							1	X	X	X	X	X	X	X	X	X					
11							1	X	X	X	X	X	X	X	X	X					
12							1	X	X	X	X	X	X	X	X	X					

ADDITIONAL COMMENTS
Please note dry wells and note when the last sample for the event has been taken.

RELINQUISHED BY / AFFILIATION: *[Signature]*

DATE: 2/14/20
TIME: 1439

ACCEPTED BY / AFFILIATION: *[Signature]*

DATE: 2/14/20
TIME: 1439

SAMPLER NAME AND SIGNATURE: *[Signature]*

PRINT Name of SAMPLER: *[Signature]*

SIGNATURE OF SAMPLER: *[Signature]*
DATE Signed (MM/DD/YY): 2-14-20



CHAIN-OF-CUSTODY Analytical Request Document

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

Section A

Section B

Section C

Requested Client Information:		Requested Project Information:		Invoice Information:	
Company:	GA Power	Report To:	SCS Contacts	Address:	Southern Co.
Address:	Atlanta, GA	Copy To:	ACC Contacts	Company Name:	
Email To:	SCS Contacts	Purchase Order No.:		Address:	
Phone:		Project Name:	Plant Yates AP-2 - Feb Event	Pace Quote Reference:	Kevin Herring
Requested Due Date/TAT:	10 Day	Project Number:		Pace Project Manager:	
				Pace Probe #:	2816-1
REGULATORY AGENCY			Requested Analysis Filtered (Y/N)		
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUNDWATER	<input type="checkbox"/> DRINKING WATER			
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input type="checkbox"/> OTHER			
Site Location STATE:		GA			

ITEM #	Section D Requested Client Information	Valid Matrix Codes DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOLID S SLURRY SL WASTE W AIR A OTHER OT TSSU TS	SCS CODES	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	SAMPLE CONDITIONS
						COMPOSITE START DATE	COMPOSITE END DATE							
1	YCWVA-1I			W6	G		7-10-20 1521	4	1		X			Pace Project No./Lab I.D. 2628972 PH = 6.10 PH = 7.20 PH = 7.38 PH = 7.09 PH = 7.85
2	YCWVA-1D			W6	G		7-10-20 1453	4	1		X			
3	YCWVA-2I			W6	G		7-11-20 1210	4	1		X			
4	YCWVA-3I			W6	G		7-11-20 1605	4	1		X			
5	YCWVA-3D			W6	G		7-17-20 1040	4	1		X			
6								1	3		X			
7								1	3		X			
8								1	3		X			
9								1	3		X			
10								1	3		X			
11								1	3		X			
12								1	3		X			

ADDITIONAL COMMENTS:		RELINQUISHED BY / AFFILIATION		DATE		TIME		ACCEPTED BY / AFFILIATION		DATE		TIME	
Please make dry walk and note when the last sample for the event has been taken.		Carter ACC		2-12-20		1515		A. Schweitzer		2/16/20		1515	
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: O. FURQUEA SIGNATURE OF SAMPLER: <i>[Signature]</i> DATE SIGNED: 2/16/20 (MM/DD/YYYY)													
Temp in °C	Received on Ice (Y/N)	Cooler (Y/N)	Sealed (Y/N)	Samples Intact (Y/N)									



Sample Condition Upon Receipt

Client Name: GA POWER Project #

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: [Redacted]

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used T117233 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 1.6 Biological Tissue is Frozen: Yes No Temp should be above freezing to 6°C

Date and Initials of person examining contents: RW 2/16/20

Comments:

Table with 16 rows of checklist items (Chain of Custody Present, Filled Out, Relinquished, etc.) and checkboxes for Yes, No, N/A.

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted: Date/Time:

Comments/ Resolution:

Project Manager Review:

Date:

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



Document Name:
Bottle Identification Form (BIF)
 Document No.:
F-CAR-CS-043-Rev.00

Document issued: March 14, 2019
 Page 1 of 1
 Issuing Authority:
Pace Carolinas Quality Office

*Check mark top half of box if pH and/or dechlorination is verified and within the acceptance range for preservation samples.
 Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/8015 (water) DOC, LLHg

Project #

Bottom half of box is to list number of bottle

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFLU-Wide-mouthed Glass jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-VPH/Gas kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SPST-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3U-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG2U-100 mL Amber Unpreserved vials (N/A)	VG9U-20 mL Scrubbing vials (N/A)	
	1																											
	2																											
	3																											
	4																											
	5																											
	6																											
	7																											
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	9																											
	10																											
	11																											
	12																											

BPIN

Handwritten notes and signatures in the right margin of the table.

pH Adjustment Log for Preserved Samples

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

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



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-CS-043-Rev.00

Document Issued: March 14, 2019
Page 1 of 1
Issuing Authority:
Pace Carolinas Quality Office

Project #

* 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 bottle

Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#
	BP4U-125 mL Plastic Unpreserved (N/A) (C-)		BP9U-250 mL Plastic Unpreserved (N/A)		BP2U-500 mL Plastic Unpreserved (N/A)		BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)		BP3N-250 mL plastic HNO3 (pH < 2)		BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)		BP4C-125 mL Plastic NaOH (pH > 12) (C-)
	WGFW-Wide-mouthed Glass Jar Unpreserved		AG1U-1 liter Amber Unpreserved (N/A) (C-)		AG2H-1 liter Amber HCl (pH < 2)		AG3U-250 mL Amber Unpreserved (N/A) (C-)		AG1S-1 liter Amber H2SO4 (pH < 2)		AG3S-250 mL Amber H2SO4 (pH < 2)		AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)		DG9H-40 mL VOA HCl (N/A)
	VG9U-40 mL VOA Unp (N/A)		VG9T-40 mL VOA Na2S2O3 (N/A)		DG9P-40 mL VOA H3PO4 (N/A)		VOAK (6 vials per kit)-5035 kit (N/A)		V/GK (3 vials per kit)-VPH/Gas kit (N/A)		SPST-125 mL Sterile Plastic (N/A - lab)		SP2T-250 mL Sterile Plastic (N/A - lab)		BP9A-250 mL Plastic (NH2)2SO4 (9.3-9.7)
	AG6U-100 mL Amber Unpreserved vials (N/A)		VS6U-20 mL Scintillation vials (N/A)												

pH Adjustment Log for Preserved Samples

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

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



Document Name:
Bottle Identification Form (BIF)

Document No.:

PCAR-C3-043 Rev 00

Document Issued: March 14, 2019
Page 1 of 1

Issuing Authority:

Pace Carolinas Quality Office

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

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

♦♦Bottom half of box is to list number of bottle

Project #

Matrix	Item#	BP40-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (>9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFLU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-5035 kit (N/A)	V/GAK (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)	BP1U	BP3A-250 mL Plastic (NH2)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Scintillation vials (N/A)
1		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
2		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
3		/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/	/
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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 DEHNR Certification Office. Out of hold, incorrect preservative, out of temp, incorrect containers.

March 15, 2020

Mr. Joju Abraham
Georgia Power
2480 Maner Road
Atlanta, GA 30339

RE: Project: 2628972
Pace Project No.: 30350269

Dear Mr. Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory between February 14, 2020 and February 18, 2020. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

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

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2628972
Pace Project No.: 30350269

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2628972
Pace Project No.: 30350269

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2628972001	YGWA-1I	Water	02/10/20 15:21	02/14/20 10:15
2628972002	YGWA-1D	Water	02/10/20 14:53	02/14/20 10:15
2628972003	YGWA-2I	Water	02/11/20 12:10	02/14/20 10:15
2628972004	YGWA-3I	Water	02/11/20 16:05	02/14/20 10:15
2628972005	YGWA-3D	Water	02/11/20 10:40	02/14/20 10:15
2628972006	YGWA-30I	Water	02/12/20 14:55	02/18/20 09:10
2628972007	YGWA-14S	Water	02/12/20 13:30	02/18/20 09:10
2628972008	YGWC-26S	Water	02/13/20 10:40	02/18/20 09:10
2628972009	YGWC-26I	Water	02/13/20 11:30	02/18/20 09:10
2628972010	DUP-1	Water	02/12/20 00:00	02/18/20 09:10
2628972011	DUP-2	Water	02/13/20 00:00	02/18/20 09:10
2628972012	EB-1-2-13-20	Water	02/13/20 11:00	02/18/20 09:10
2628972013	YGWC-29I	Water	02/13/20 13:02	02/18/20 09:10
2628972014	FB-1-2-13-20	Water	02/13/20 13:30	02/18/20 09:10
2628972015	FB-2-2-13-20	Water	02/13/20 13:40	02/18/20 09:10
2628972016	EB-2-2-13-20	Water	02/13/20 13:45	02/18/20 09:10
2628972017	YGWC-27S	Water	02/13/20 11:50	02/18/20 09:10
2628972018	YGWC-27I	Water	02/13/20 10:25	02/18/20 09:10
2628972019	YGWC-28S	Water	02/13/20 13:45	02/18/20 09:10
2628972020	YGWC-28I	Water	02/13/20 14:50	02/18/20 09:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2628972
Pace Project No.: 30350269

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2628972001	YGWA-1I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972002	YGWA-1D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972003	YGWA-2I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972004	YGWA-3I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972005	YGWA-3D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972006	YGWA-30I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972007	YGWA-14S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972008	YGWC-26S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972009	YGWC-26I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972010	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972011	DUP-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972012	EB-1-2-13-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2628972013	YGWC-29I	EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2628972
Pace Project No.: 30350269

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2628972014	FB-1-2-13-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2628972015	FB-2-2-13-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2628972016	EB-2-2-13-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2628972017	YGWC-27S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2628972018	YGWC-27I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2628972019	YGWC-28S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2628972020	YGWC-28I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

Sample: YGWA-1I		Lab ID: 2628972001	Collected: 02/10/20 15:21	Received: 02/14/20 10:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.460 ± 0.329 (0.552) C:77% T:NA	pCi/L	03/03/20 08:19	13982-63-3	
Radium-228	EPA 9320	0.786 ± 0.408 (0.726) C:78% T:95%	pCi/L	03/11/20 16:10	15262-20-1	
Total Radium	Total Radium Calculation	1.25 ± 0.737 (1.28)	pCi/L	03/12/20 11:02	7440-14-4	

Sample: YGWA-1D		Lab ID: 2628972002	Collected: 02/10/20 14:53	Received: 02/14/20 10:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.714 ± 0.354 (0.471) C:91% T:NA	pCi/L	03/03/20 08:19	13982-63-3	
Radium-228	EPA 9320	0.693 ± 0.389 (0.713) C:81% T:99%	pCi/L	03/11/20 16:10	15262-20-1	
Total Radium	Total Radium Calculation	1.41 ± 0.743 (1.18)	pCi/L	03/12/20 11:02	7440-14-4	

Sample: YGWA-2I		Lab ID: 2628972003	Collected: 02/11/20 12:10	Received: 02/14/20 10:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.476 ± 0.310 (0.488) C:86% T:NA	pCi/L	03/03/20 08:20	13982-63-3	
Radium-228	EPA 9320	0.341 ± 0.436 (0.930) C:80% T:85%	pCi/L	03/11/20 16:10	15262-20-1	
Total Radium	Total Radium Calculation	0.817 ± 0.746 (1.42)	pCi/L	03/12/20 11:02	7440-14-4	

Sample: YGWA-3I		Lab ID: 2628972004	Collected: 02/11/20 16:05	Received: 02/14/20 10:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.851 ± 0.385 (0.434) C:85% T:NA	pCi/L	03/03/20 08:20	13982-63-3	
Radium-228	EPA 9320	1.00 ± 0.464 (0.788) C:76% T:95%	pCi/L	03/11/20 16:10	15262-20-1	
Total Radium	Total Radium Calculation	1.85 ± 0.849 (1.22)	pCi/L	03/12/20 11:02	7440-14-4	

Sample: YGWA-3D		Lab ID: 2628972005	Collected: 02/11/20 10:40	Received: 02/14/20 10:15	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.74 ± 0.555 (0.550) C:97% T:NA	pCi/L	03/03/20 08:20	13982-63-3	
Radium-228	EPA 9320	2.13 ± 0.654 (0.830) C:79% T:82%	pCi/L	03/11/20 16:10	15262-20-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

Sample: YGWA-3D		Lab ID: 2628972005	Collected: 02/11/20 10:40	Received: 02/14/20 10:15	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Total Radium	Total Radium Calculation	3.87 ± 1.21	(1.38)	pCi/L	03/12/20 11:02	7440-14-4	

Sample: YGWA-30I		Lab ID: 2628972006	Collected: 02/12/20 14:55	Received: 02/18/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.105 ± 0.223	(0.520)	pCi/L	03/03/20 08:20	13982-63-3	
		C:94% T:NA					
Radium-228	EPA 9320	0.196 ± 0.343	(0.750)	pCi/L	03/11/20 16:10	15262-20-1	
		C:80% T:97%					
Total Radium	Total Radium Calculation	0.301 ± 0.566	(1.27)	pCi/L	03/12/20 11:02	7440-14-4	

Sample: YGWA-14S		Lab ID: 2628972007	Collected: 02/12/20 13:30	Received: 02/18/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.565 ± 0.298	(0.394)	pCi/L	03/03/20 08:21	13982-63-3	
		C:95% T:NA					
Radium-228	EPA 9320	0.500 ± 0.421	(0.849)	pCi/L	03/11/20 16:10	15262-20-1	
		C:79% T:88%					
Total Radium	Total Radium Calculation	1.07 ± 0.719	(1.24)	pCi/L	03/12/20 11:02	7440-14-4	

Sample: YGWC-26S		Lab ID: 2628972008	Collected: 02/13/20 10:40	Received: 02/18/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.111 ± 0.184	(0.405)	pCi/L	03/03/20 08:21	13982-63-3	
		C:83% T:NA					
Radium-228	EPA 9320	0.0666 ± 0.350	(0.799)	pCi/L	03/11/20 16:10	15262-20-1	
		C:79% T:89%					
Total Radium	Total Radium Calculation	0.178 ± 0.534	(1.20)	pCi/L	03/12/20 11:02	7440-14-4	

Sample: YGWC-26I		Lab ID: 2628972009	Collected: 02/13/20 11:30	Received: 02/18/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.762 ± 0.383	(0.500)	pCi/L	03/03/20 08:21	13982-63-3	
		C:76% T:NA					
Radium-228	EPA 9320	1.10 ± 0.474	(0.764)	pCi/L	03/11/20 16:11	15262-20-1	
		C:80% T:85%					
Total Radium	Total Radium Calculation	1.86 ± 0.857	(1.26)	pCi/L	03/12/20 11:02	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

Sample: DUP-1		Lab ID: 2628972010	Collected: 02/12/20 00:00	Received: 02/18/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.497 ± 0.311 (0.493)		pCi/L	03/03/20 08:21	13982-63-3	
		C:92% T:NA					
Radium-228	EPA 9320	0.613 ± 0.439 (0.860)		pCi/L	03/11/20 16:11	15262-20-1	
		C:79% T:90%					
Total Radium	Total Radium Calculation	1.11 ± 0.750 (1.35)		pCi/L	03/12/20 11:02	7440-14-4	

Sample: DUP-2		Lab ID: 2628972011	Collected: 02/13/20 00:00	Received: 02/18/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.366 ± 0.313 (0.598)		pCi/L	03/03/20 08:21	13982-63-3	
		C:92% T:NA					
Radium-228	EPA 9320	0.174 ± 0.377 (0.834)		pCi/L	03/11/20 16:11	15262-20-1	
		C:77% T:89%					
Total Radium	Total Radium Calculation	0.540 ± 0.690 (1.43)		pCi/L	03/12/20 11:02	7440-14-4	

Sample: EB-1-2-13-20		Lab ID: 2628972012	Collected: 02/13/20 11:00	Received: 02/18/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.213 ± 0.232 (0.466)		pCi/L	03/03/20 08:23	13982-63-3	
		C:96% T:NA					
Radium-228	EPA 9320	-0.0665 ± 0.265 (0.640)		pCi/L	03/11/20 16:11	15262-20-1	
		C:79% T:96%					
Total Radium	Total Radium Calculation	0.213 ± 0.497 (1.11)		pCi/L	03/12/20 11:02	7440-14-4	

Sample: YGWC-29I		Lab ID: 2628972013	Collected: 02/13/20 13:02	Received: 02/18/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.678 ± 0.222 (0.244)		pCi/L	03/03/20 17:19	13982-63-3	
		C:89% T:NA					
Radium-228	EPA 9320	0.128 ± 0.370 (0.830)		pCi/L	03/11/20 16:11	15262-20-1	
		C:79% T:90%					
Total Radium	Total Radium Calculation	0.806 ± 0.592 (1.07)		pCi/L	03/12/20 11:03	7440-14-4	

Sample: FB-1-2-13-20		Lab ID: 2628972014	Collected: 02/13/20 13:30	Received: 02/18/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC)	Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.331 ± 0.164 (0.248)		pCi/L	03/03/20 17:19	13982-63-3	
		C:99% T:NA					
Radium-228	EPA 9320	0.433 ± 0.411 (0.842)		pCi/L	03/11/20 16:11	15262-20-1	
		C:78% T:85%					

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-1-2-13-20 Lab ID: 2628972014 Collected: 02/13/20 13:30 Received: 02/18/20 09:10 Matrix: Water						
PWS: Site ID: Sample Type:						
Total Radium	Total Radium Calculation	0.764 ± 0.575 (1.09)	pCi/L	03/12/20 11:03	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: FB-2-2-13-20 Lab ID: 2628972015 Collected: 02/13/20 13:40 Received: 02/18/20 09:10 Matrix: Water						
PWS: Site ID: Sample Type:						
Radium-226	EPA 9315	0.376 ± 0.161 (0.208) C:93% T:NA	pCi/L	03/03/20 17:19	13982-63-3	
Radium-228	EPA 9320	0.736 ± 0.546 (1.09) C:74% T:91%	pCi/L	03/11/20 16:12	15262-20-1	
Total Radium	Total Radium Calculation	1.11 ± 0.707 (1.30)	pCi/L	03/12/20 11:03	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: EB-2-2-13-20 Lab ID: 2628972016 Collected: 02/13/20 13:45 Received: 02/18/20 09:10 Matrix: Water						
PWS: Site ID: Sample Type:						
Radium-226	EPA 9315	0.287 ± 0.156 (0.243) C:93% T:NA	pCi/L	03/03/20 17:19	13982-63-3	
Radium-228	EPA 9320	0.395 ± 0.430 (0.897) C:75% T:90%	pCi/L	03/11/20 16:12	15262-20-1	
Total Radium	Total Radium Calculation	0.682 ± 0.586 (1.14)	pCi/L	03/12/20 11:03	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWC-27S Lab ID: 2628972017 Collected: 02/13/20 11:50 Received: 02/18/20 09:10 Matrix: Water						
PWS: Site ID: Sample Type:						
Radium-226	EPA 9315	0.382 ± 0.194 (0.317) C:95% T:NA	pCi/L	03/03/20 17:19	13982-63-3	
Radium-228	EPA 9320	0.579 ± 0.401 (0.771) C:77% T:93%	pCi/L	03/11/20 16:12	15262-20-1	
Total Radium	Total Radium Calculation	0.961 ± 0.595 (1.09)	pCi/L	03/12/20 11:03	7440-14-4	

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Sample: YGWC-27I Lab ID: 2628972018 Collected: 02/13/20 10:25 Received: 02/18/20 09:10 Matrix: Water						
PWS: Site ID: Sample Type:						
Radium-226	EPA 9315	3.18 ± 0.596 (0.230) C:95% T:NA	pCi/L	03/03/20 17:19	13982-63-3	
Radium-228	EPA 9320	1.30 ± 0.533 (0.849) C:75% T:90%	pCi/L	03/11/20 16:12	15262-20-1	
Total Radium	Total Radium Calculation	4.48 ± 1.13 (1.08)	pCi/L	03/12/20 11:03	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.499 ± 0.184 (0.222) C:97% T:NA	pCi/L	03/03/20 17:19	13982-63-3	
Radium-228		EPA 9320	0.539 ± 0.383 (0.739) C:76% T:94%	pCi/L	03/11/20 16:12	15262-20-1	
Total Radium		Total Radium Calculation	1.04 ± 0.567 (0.961)	pCi/L	03/12/20 11:03	7440-14-4	

Parameters		Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226		EPA 9315	0.412 ± 0.177 (0.244) C:94% T:NA	pCi/L	03/03/20 17:19	13982-63-3	
Radium-228		EPA 9320	0.711 ± 0.480 (0.928) C:76% T:87%	pCi/L	03/11/20 16:12	15262-20-1	
Total Radium		Total Radium Calculation	1.12 ± 0.657 (1.17)	pCi/L	03/12/20 11:03	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

QC Batch: 385668	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005, 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012	

METHOD BLANK: 1868413	Matrix: Water
Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005, 2628972006, 2628972007, 2628972008, 2628972009, 2628972010, 2628972011, 2628972012	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.411 ± 0.292 (0.553) C:86% T:91%	pCi/L	03/11/20 16:09	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

QC Batch: 385669	Analysis Method: EPA 9315
QC Batch Method: EPA 9315	Analysis Description: 9315 Total Radium
Associated Lab Samples: 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020	

METHOD BLANK: 1868414	Matrix: Water
Associated Lab Samples: 2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.486 ± 0.182 (0.217) C:96% T:NA	pCi/L	03/03/20 17:19	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

QC Batch: 385666 Analysis Method: EPA 9315
QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005, 2628972006, 2628972007, 2628972008,
2628972009, 2628972010, 2628972011, 2628972012

METHOD BLANK: 1868412 Matrix: Water
Associated Lab Samples: 2628972001, 2628972002, 2628972003, 2628972004, 2628972005, 2628972006, 2628972007, 2628972008,
2628972009, 2628972010, 2628972011, 2628972012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.603 ± 0.260 (0.342) C:89% T:NA	pCi/L	03/02/20 19:23	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2628972
Pace Project No.: 30350269

QC Batch:	385670	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020		

METHOD BLANK:	1868415	Matrix:	Water
Associated Lab Samples:	2628972013, 2628972014, 2628972015, 2628972016, 2628972017, 2628972018, 2628972019, 2628972020		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.127 ± 0.308 (0.687) C:77% T:91%	pCi/L	03/11/20 16:12	

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QUALIFIERS

Project: 2628972
Pace Project No.: 30350269

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.

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

Workorder: 2628972 Workorder Name: PLANT YATES AP-2 - FEB EVENT

State Of Origin: GA

Cert. Needed: Yes No

Owner Received Date: 2/12/2020 Results Requested By: 2/26/2020

Kevin Herring
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Phone (704)875-9092

Pace Analytical Pittsburgh
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Greensburg, PA 15601
Phone (724)850-5600



21 days
2/26/2020

WO#: 30350269



30350269

Item	Sample ID	Sample Type	Collection Date/Time	Location	Container	Volume	Notes	LAB USE ONLY
1	YGWA-11	PS	2/10/2020 15:21	Water	2			CC1
2	YGWA-1D	PS	2/10/2020 14:53	Water	2			CC2
3	YGWA-2I	PS	2/11/2020 12:10	Water	2			CC3
4	YGWA-3I	PS	2/11/2020 16:05	Water	2			CC4
5	YGWA-3D	PS	2/12/2020 10:40	Water	2			CC5

Transfers	Released By	Date/Time	Received By	Date/Time
1	<i>[Signature]</i>	2/13/2020	<i>[Signature]</i>	2-14-20 10:15
2				
3				

Cooler Temperature on Receipt *NA* °C Custody Seal Y or N Received on Ice Y or N Samples Intact X or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

Workorder: 2628972 Workorder Name: PLANT YATES AP-2 - FEB EVENT

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Pace Analytical Charlotte
9800 Kinsey Ave.
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Pace Analytical Pittsburgh
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Greensburg, PA 15601
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State Of Origin: GA Yes No
 Cert. Needed: Yes No
 Owner Received Date: 2/12/2020 Results Requested By: 2/26/2020



2/16/20
2/26/2020

WO#: 30350269

PM: JAC Due Date: 03/06/20
 CLIENT: PACE_26_ATGA

Item	Sample ID	Sample Type	Collection Date/Time	Container ID	Matrix	NOH	LAB USE ONLY
1	YGWA-11	PS	2/10/2020 15:21	2628972001	Water		
2	YGWA-1D	PS	2/10/2020 14:53	2628972002	Water		
3	YGWA-2I	PS	2/10/2020 12:10	2628972003	Water		
4	YGWA-3I	PS	2/11/2020 16:05	2628972004	Water		
5	YGWA-2P	PS	2/12/2020 10:40	2628972005	Water		
6	YGWA-30I	PS	2/12/2020 14:55	2628972006	Water		
7	YGWA-14S	PS	2/12/2020 13:30	2628972007	Water		
8	YGWC-26S	PS	2/13/2020 10:40	2628972008	Water		
9	YGWC-26I	PS	2/13/2020 11:30	2628972009	Water		
10	DUP-1	PS	2/12/2020 00:00	2628972010	Water		
11	DUP-2	PS	2/13/2020 00:00	2628972011	Water		
12	EB-1-2-13-20	PS	2/13/2020 11:00	2628972012	Water		
13	YGWC-29I	PS	2/13/2020 13:02	2628972013	Water		
14	FB-1-2-13-20	PS	2/13/2020 13:30	2628972014	Water		
15	FB-2-2-13-20	PS	2/13/2020 13:40	2628972015	Water		
16	EB-2-2-13-20	PS	2/13/2020 13:45	2628972016	Water		
17	YGWC-27S	PS	2/13/2020 11:50	2628972017	Water		
18	YGWC-27I	PS	2/13/2020 10:25	2628972018	Water		
19	YGWC-28S	PS	2/13/2020 13:45	2628972019	Water		

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: GA
 Cert. Needed: Yes No

Workorder: 2628972 Workorder Name: PLANT YATES AP-2 - FEB EVENT Results Requested By: 2/26/2020

Kevin Herring
 Pace Analytical Charlotte
 9800 Kinsey Ave.
 Suite 100
 Huntersville, NC 28078
 Phone (704)875-9092

Pace Analytical Pittsburgh
 1638 Roseytown Road
 Suites 2, 3, & 4
 Greensburg, PA 15601
 Phone (724)850-5600

Item Sample ID	Sample Type	Sample Address	Date/Time	Lab ID	Matrix	Retention Periods																
						1	2	3	4	5	6	7	8	9	10	11	12					
20	YGWC-281		2/13/2020 14:50	2628972020	Water																	
21																						
22																						
23																						
24																						
Transfers		Released By		Received By		Date/Time		Date/Time		Received on Ice		Y or N		Samples Intact		Y or N						
1		<i>[Signature]</i>		<i>[Signature]</i>		2/17/20 17:00		2/18/20 9:10		Add On		Y		N								
2																						
3																						

Cooler Temperature on Receipt *NA* °C Custody Seal *Y* or *N* Received on Ice *Y* or *N* Samples Intact *Y* or *N*

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document.
 This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace NC

Project # 30350269

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 1657 9506 2497

Label	<u>PL</u>
LIMS Login	<u>PA</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:
				<u>1C110391</u>	<u>PL 2-17-20</u>
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampler Name & Signature on COC:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Sample Labels match COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
-Includes date/time/ID Matrix: <u>WT</u>					
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Correct Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
-Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Orthophosphate field filtered	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>PL 2</u>	
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>PL</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Trip Blank Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>PL</u>	Date: <u>2-17-20</u>

Client Notification/ Resolution:

Person-Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

WO#: 30350269

Pittsburgh Lab Sample Condition Upon Receipt

PM: JAC Due Date: 03/06/20
CLIENT: PACE_26_ATGA



Client Name: Pace NC

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1657 9506 3368

Label DK
LIMS Login DK

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:	pH paper Lot#			Date and initials of person examining contents: <u>DK 2-18-20</u>
	Yes	No	N/A	
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4.
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	5.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6.
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7.
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8.
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9.
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10.
Containers Intact: <u>DK 2-18-20</u>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	11. <u>1 bottle for sample 020 received half spilled</u>
Orthophosphate field filtered	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	12.
Hex Cr Aqueous sample field filtered	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	13.
Organic Samples checked for dechlorination:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	14.
Filtered volume received for Dissolved tests	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	15.
All containers have been checked for preservation. exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	16. <u>DK</u>
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>DK</u> Date/time of preservation
				Lot # of added preservative
Headspace in VOA Vials (>6mm):	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	17.
Trip Blank Present:	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	18.
Trip Blank Custody Seals Present	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed: <u>DK</u> Date: <u>2-18-20</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment



Test: Ra-226
Analyst: LAL
Date: 3/2/2020
Worklist: 52608
Matrix: DW

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Method Blank Assessment	
MB Sample ID	1868412
MB concentration:	0.603
M/B Counting Uncertainty:	0.245
MB MDC:	0.342
MB Numerical Performance Indicator:	4.83
MB Status vs Numerical Indicator:	N/A
MB Status vs MDC:	See Comment*

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD52608	LCSD52608
Count Date:	3/3/2020
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.050
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.512
Target Conc. (pCi/L, g, F):	4.685
Uncertainty (Calculated):	0.065
Result (pCi/L, g, F):	4.517
LCSD Counting Uncertainty (pCi/L, g, F):	0.744
Numerical Performance Indicator:	-0.47
Percent Recovery:	96.22%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	2628973004
Duplicate Sample I.D.:	2628973004DUP
Sample Result (pCi/L, g, F):	3.060
Sample Result Counting Uncertainty (pCi/L, g, F):	0.623
Sample Duplicate Result (pCi/L, g, F):	2.847
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.625
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	0.473
Duplicate RPD:	7.20%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

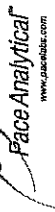
Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

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

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

LAB
3-3-2020
LAM 3/3/20

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/2/2020
Worklist: 52608
Matrix: DW

Method Blank Assessment	
MB Sample ID	1868412
MB Concentration:	0.603
M/B Counting Uncertainty:	0.245
MB MDC:	0.342
MB Numerical Performance Indicator:	4.83
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
LCS# (Y or N)?	N
LCS52608	LCS052608
Count Date:	3/3/2020
Spike ID:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.050
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.512
Target Conc. (pCi/L, g, F):	4.695
Uncertainty (Calculated):	0.056
Result (pCi/L, g, F):	4.517
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.744
Numerical Performance Indicator:	-0.47
Percent Recovery:	96.22%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	2628973003
Duplicate Sample I.D.:	2628973003DUP
Sample Result (pCi/L, g, F):	1.224
Sample Duplicate Result (pCi/L, g, F):	0.444
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.496
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.335
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	2.565
Duplicate RPD:	84.62%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

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

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

***Batch must be re-prepped due to unacceptable precision. - Numerical indicator OK

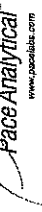
Sample Matrix Spike Control Assessment		MS/MSD 1	MS/MSD 2
Sample Collection Date:			
Sample I.D.:			
Sample MS I.D.:			
Sample MSD I.D.:			
Spike I.D.:			
MS/MSD Decay Corrected Spike Concentration (pCi/mL):			
Spike Volume Used in MS (mL):			
Spike Volume Used in MSD (mL):			
MS Aliquot (L, g, F):	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

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

VAM 3/3/20

HUB
3-3-2020

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/3/2020
Worklist: 52610
Matrix: DW

Method Blank Assessment	
MB Sample ID	1868414
MB concentration:	0.486
MIB Counting Uncertainty:	0.188
MB MDC:	0.217
MB Numerical Performance Indicator:	5.69
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	
LCS# (Y or N)?	N
LCS52610	LCS52610
Count Date:	3/4/2020
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.050
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.502
Target Conc. (pCi/L, g, F):	4.795
Uncertainty (Calculated):	0.088
Result (pCi/L, g, F):	4.905
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.753
Numerical Performance Indicator:	0.29
Percent Recovery:	102.29%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	2628972014
Duplicate Sample I.D.:	2628972014DUP
Sample Result (pCi/L, g, F):	0.331
Sample Result Counting Uncertainty (pCi/L, g, F):	0.157
Sample Duplicate Result (pCi/L, g, F):	0.427
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.278
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	-0.596
Duplicate RPD:	29.56%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail**
% RPD Limit:	25%

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

Comments:

*The method blank result is below the reporting limit for this analysis and is acceptable.

**Beta must be re-prepped due to unacceptable precision - Results < 5x MDC, N/A < 3 acceptable

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

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	Sample I.D.:
Sample MS I.D.:	Sample MS I.D.:
Sample MSD I.D.:	Sample MSD I.D.:
Sample Matrix Spike Result:	Sample Matrix Spike Result:
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):	Sample Matrix Spike Duplicate Result:
Sample Matrix Spike Duplicate Result:	Sample Matrix Spike Duplicate Counting Uncertainty (pCi/L, g, F):
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:	MS/MSD Duplicate Status vs RPD:
% RPD Limit:	% RPD Limit:

VAM314120

DEBB H/H
MMW

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/3/2020
Worklist: 52610
Matrix: DW



Method Blank Assessment	
MB Sample ID	1668414
MB Concentration:	0.486
MB Counting Uncertainty:	0.168
MB MDC:	0.217
MB Numerical Performance Indicator:	5.69
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment	LCS (Y or N)?	
	LCS52610	N LCS52610
Count Date:	3/4/2020	
Spike I.D.:	19-033	
Decay Corrected Spike Concentration (pCi/mL):	24.050	
Volume Used (mL):	0.10	
Aliquot Volume (L, g, F):	0.502	
Target Conc. (pCi/L, g, F):	4.795	
Uncertainty (Calculated):	0.058	
Result (pCi/L, g, F):	4.905	
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.753	
Numerical Performance Indicator:	0.29	
Percent Recovery:	102.29%	
Status vs Numerical Indicator:	N/A	
Status vs Recovery:	Pass	
Upper % Recovery Limits:	125%	
Lower % Recovery Limits:	75%	

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	2628972015
Duplicate Sample I.D.:	2628972015DUP
Sample Result (pCi/L, g, F):	0.376
Sample Duplicate Result (pCi/L, g, F):	0.151
Sample Duplicate Counting Uncertainty (pCi/L, g, F):	0.344
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.256
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	0.208
Duplicate RPD:	8.79%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

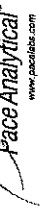
Sample Matrix Spike Control Assessment	MS/MSD 1	MS/MSD 2
Sample Collection Date: Sample I.D. Sample MS I.D. Sample MSD I.D. Spike I.D.:		
MS/MSD Decay Corrected Spike Concentration (pCi/mL): Spike Volume Used in MS (mL): Spike Volume Used in MSD (mL): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g,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

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

Handwritten notes:
D 2628972015
MS

Handwritten: 1668414

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/2/2020
Worklist: 52609
Matrix: WT

Method Blank Assessment	MB Sample ID	1868413
MB concentration:	0.411	
MB 2 Sigma CSU:	0.292	
MB MDC:	0.553	
MB Numerical Performance Indicator:	2.76	
MB Status vs Numerical Indicator:	Warning	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCS (Y or N)?		Y
	LCS52609	LCS52609	
Count Date:	3/11/2020	3/11/2020	
Spike I.D.:	19-057	19-057	
Decay Corrected Spike Concentration (pCi/mL):	34.881	34.881	
Volume Used (mL):	0.10	0.10	
Aliquot Volume (L, g, F):	0.825	0.806	
Target Conc. (pCi/L, g, F):	4.228	4.330	
Uncertainty (Calculated):	0.304	0.312	
Result (pCi/L, g, F):	3.218	3.862	
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.783	0.924	
Numerical Performance Indicator:	-2.36	-0.94	
Percent Recovery:	76.07%	89.18%	
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	LCS52609		Y
	LCS52609	LCS52609	
Sample I.D.:	3.216	3.216	
Duplicate Sample I.D.:	0.783	0.783	
Sample Result 2 Sigma CSU (pCi/L, g, F):	3.862	3.862	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	0.924	0.924	
Are sample and/or duplicate results below RL?	NO	NO	
Duplicate Numerical Performance Indicator:	-1.044	-1.044	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	15.87%	15.87%	
Duplicate Status vs Numerical Indicator:	Pass	Pass	
Duplicate Status vs RPD:	Pass	Pass	
% RPD Limit:	36%	36%	

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

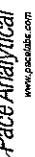
Comments:

Handwritten notes:
3-2-20
VAL

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

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

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
 Analyst: VAL
 Date: 3/12/2020
 Worklist: 52611
 Matrix: WT

Method Blank Assessment	MB Sample ID	1868415
MB concentration:	0.127	
M/B 2 Sigma CSU:	0.308	
MB MDC:	0.687	
MB Numerical Performance Indicator:	0.81	
MB Status vs Numerical Indicator:	Pass	
MB Status vs. MDC:	Pass	

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS52611	LCS52611
Count Date:	3/11/2020	3/11/2020
Spike I.D.:	19-057	19-057
Decay Corrected Spike Concentration (pCi/mL):	34.880	34.880
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.810	0.803
Target Conc. (pCi/L, g, F):	4.304	4.345
Uncertainty (Calculated):	0.310	0.313
Result (pCi/L, g, F):	3.175	3.167
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.788	0.804
Numerical Performance Indicator:	-2.61	-2.68
Percent Recovery:	73.76%	72.88%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	135%	135%
Lower % Recovery Limits:	50%	50%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	
Sample Result 2 Sigma CSU (pCi/L, g, F):	
Sample Duplicate Result (pCi/L, g, F):	
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	
Are sample and/or duplicate results below RL?	
Duplicate Numerical Performance Indicator:	
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	
Duplicate Status vs Numerical Indicator:	
Duplicate Status vs RPD:	
% 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:		
Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

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

557
 3-12-20
 Cu 3/12/20

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Yates Ash Pond-2

Scan Even February 2020

Georgia Power Company – Plant Yates Ash Pond-2

Quality Control Review of Analytical Data – February 2020

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Atlanta, Asheville, and Pittsburgh for groundwater samples collected at Plant Yates AP-2 between February 10, 2020 and February 13, 2020. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Mercury in Liquid Wastes (USEPA Method 7470A), Determination of Inorganic Anions (USEPA Method 300.0), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA 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. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and COCs were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

Laboratory Precision: Laboratory goals for precision were met.

Field Precision: Field goals for precision were met, with the exceptions of Barium and Radium-228 on YGWC-27S (2628972017) and DUP-2 (2628972011) as described in the qualifications section below.

Accuracy: Laboratory goals for accuracy were met.

Detection Limits: Project goals for detection limits were met.

Completeness: There were no rejected analytical results for this event, resulting in a completion of 100%.

Holding Times: Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

J: The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample

ND: The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Samples YGWC-27S (2628972017) and DUP-2 (2628972011) were qualified as estimated (J) for Barium and Radium-228 as the respective field relative percent differences (RPDs) exceeded QC criteria (140.35% and 107.57% above limit of 25).

- Certain arsenic results in SDG 2628972 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the method detection limit (MDL) was raised to the sample result as part of the qualification process.
- Certain radium results in SDG 2628972 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Yates Ash Pond-2 sampled between February 10, 2020 and February 13, 2020 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Yates Ash Pond-2

Sample Summary Table – Scan Event February 2020

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses		
						Metals (6020B, 7470A)	Anions (300.0)	Radium-226/-228 (9315, 9320)
28972	YGWA-1I	2/10/2020	2628972001	GW		X	X	X
28972	YGWA-1D	2/10/2020	2628972002	GW		X	X	X
28972	YGWA-2I	2/11/2020	2628972003	GW		X	X	X
28972	YGWA-3I	2/11/2020	2628972004	GW		X	X	X
28972	YGWA-3D	2/12/2020	2628972005	GW		X	X	X
28972	YGWA-30I	2/12/2020	2628972006	GW		X	X	X
28972	YGWA-14S	2/12/2020	2628972007	GW		X	X	X
28972	YGWC-26S	2/13/2020	2628972008	GW		X	X	X
28972	YGWC-26I	2/13/2020	2628972009	GW		X	X	X
28972	DUP-1	2/12/2020	2628972010	GW	FD (YGWA-14S)	X	X	X
28972	DUP-2	2/13/2020	2628972011	GW	FD (YGWC-27S)	X	X	X
28972	EB-1-2-13-20	2/13/2020	2628972012	WQ	EB	X	X	X
28972	YGWC-29I	2/13/2020	2628972013	GW		X	X	X
28972	FB-1-2-13-20	2/13/2020	2628972014	WQ	FB	X	X	X
28972	FB-2-2-13-20	2/13/2020	2628972015	WQ	FB	X	X	X
28972	EB-2-2-13-20	2/13/2020	2628972016	WQ	EB	X	X	X
28972	YGWC-27S	2/13/2020	2628972017	GW		X	X	X
28972	YGWC-27I	2/13/2020	2628972018	GW		X	X	X
28972	YGWC-28S	2/13/2020	2628972019	GW		X	X	X
28972	YGWC-28I	2/13/2020	2628972020	GW		X	X	X

Abbreviations:

EB – Equipment Blank

FB – Field Blank

FD – Field Duplicate

GW – Groundwater

QC – Quality Control

TDS – Total Dissolved Solids

WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Yates Ash Pond-2

Qualifier Summary Table – Scan Event February 2020

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
28972	YGWC-27S	Barium			J	RPD exceeds field goal
28972	DUP-2	Barium			J	RPD exceeds field goal
28972	YGWC-27S	Radium-228			J	RPD exceeds field goal
28972	DUP-2	Radium-228			J	RPD exceeds field goal
28972	YGWA-1I	Arsenic		0.0005	ND	Blank detection
28972	YGWA-1D	Arsenic		0.0026	ND	Blank detection
28972	YGWA-2I	Arsenic		0.0044	ND	Blank detection
28972	YGWA-3I	Arsenic		0.0041	ND	Blank detection
28972	YGWA-3D	Arsenic		0.0038	ND	Blank detection
28972	YGWA-30I	Arsenic		0.0032	ND	Blank detection
28972	YGWA-1I	Radium-226		0.552	ND	Blank detection
28972	YGWA-1I	Radium-228		0.726	ND	Blank detection
28972	YGWA-1D	Radium-226		0.471	ND	Blank detection
28972	YGWA-1D	Radium-228		0.713	ND	Blank detection
28972	YGWA-2I	Radium-226		0.488	ND	Blank detection
28972	YGWA-2I	Radium-228		0.930	ND	Blank detection
28972	YGWA-3I	Radium-226		0.434	ND	Blank detection
28972	YGWA-3I	Radium-228		0.788	ND	Blank detection
28972	YGWA-3D	Radium-226		0.550	ND	Blank detection
28972	YGWA-3D	Radium-228		0.830	ND	Blank detection
28972	YGWA-30I	Radium-226		0.520	ND	Blank detection
28972	YGWA-30I	Radium-228		0.750	ND	Blank detection
28972	YGWA-14S	Radium-226		0.394	ND	Blank detection
28972	YGWA-14S	Radium-228		0.849	ND	Blank detection
28972	YGWC-26S	Radium-226		0.405	ND	Blank detection
28972	YGWC-26S	Radium-228		0.799	ND	Blank detection
28972	YGWC-26I	Radium-226		0.500	ND	Blank detection
28972	YGWC-26I	Radium-228		0.764	ND	Blank detection
28972	YGWC-29I	Radium-226		0.244	ND	Blank detection
28972	YGWC-29I	Radium-228		0.830	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

TABLE 2 (continued)

Georgia Power Company – Plant Yates Ash Pond-2

Qualifier Summary Table – Scan Event February 2020

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
28972	YGWC-27S	Radium-226		0.317	ND	Blank detection
28972	YGWC-27S	Radium-228		0.771	ND	Blank detection
28972	YGWC-27I	Radium-226		0.230	ND	Blank detection
28972	YGWC-27I	Radium-228		0.849	ND	Blank detection
28972	YGWC-28S	Radium-226		0.222	ND	Blank detection
28972	YGWC-28S	Radium-228		0.739	ND	Blank detection
28972	YGWC-28I	Radium-226		0.244	ND	Blank detection
28972	YGWC-28I	Radium-228		0.928	ND	Blank detection

Abbreviations:

MDC – Minimum Detectable Concentration
 MS/MSD – Matrix Spike / Matrix Spike Duplicate
 MDL – Method Detection Limit
 RL – Reporting Limit
 RPD – Relative Percent Difference
 SDG – Sample Delivery Group

Qualifiers:

J – Estimated Result
 ND – Non-Detect Result

March 2020

Semiannual Event



April 08, 2020

Joju Abraham
Georgia Power - Coal Combustion Residuals
2480 Maner Road
Atlanta, GA 30339

RE: Project: PLANT YATES AP-2
Pace Project No.: 2630320

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 20, 2020. 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 - Atlanta, GA

This report was revised 4/8/20 to correct a reporting error for sample DUP-1.

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

Sincerely,



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

Enclosures

cc: Monte Jones, ACC
Kristen Jurinko
Matt Malone, Atlantic Coast Consulting
Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Ryan Walker



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Pace Analytical Services Atlanta

110 Technology Parkway Peachtree Corners, GA 30092

Florida DOH Certification #: E87315

Georgia DW Inorganics Certification #: 812

Georgia DW Microbiology Certification #: 812

North Carolina Certification #: 381

South Carolina Certification #: 98011001

Virginia Certification #: 460204

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804

Florida/NELAP Certification #: E87648

Massachusetts Certification #: M-NC030

North Carolina Drinking Water Certification #: 37712

North Carolina Wastewater Certification #: 40

South Carolina Certification #: 99030001

Virginia/VELAP Certification #: 460222

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630320001	YGWA-1I	Water	03/18/20 15:37	03/20/20 14:10
2630320002	YGWA-1D	Water	03/19/20 10:33	03/20/20 14:10
2630320003	YGWA-2I	Water	03/19/20 12:37	03/20/20 14:10
2630320004	YGWA-3I	Water	03/19/20 11:00	03/20/20 14:10
2630320005	YGWA-3D	Water	03/19/20 12:10	03/20/20 14:10
2630320006	YGWA-14S	Water	03/18/20 15:50	03/20/20 14:10
2630320007	YGWA-30I	Water	03/19/20 14:20	03/20/20 14:10
2630320008	EB-1-3-19-20	Water	03/19/20 13:15	03/20/20 14:10
2630320009	FB-1-3-19-20	Water	03/19/20 15:15	03/20/20 14:10
2630320011	YGWC-26S	Water	03/19/20 16:47	03/20/20 14:10
2630320012	YGWC-26I	Water	03/20/20 10:47	03/20/20 14:10
2630320013	YGWC-27S	Water	03/20/20 12:00	03/20/20 14:10
2630320014	YGWC-27I	Water	03/20/20 12:05	03/20/20 14:10
2630320015	YGWC-28S	Water	03/19/20 14:55	03/20/20 14:10
2630320016	YGWC-28I	Water	03/19/20 16:00	03/20/20 14:10
2630320017	YGWC-29I	Water	03/20/20 10:12	03/20/20 14:10
2630320018	EB-2-3-19-20	Water	03/19/20 13:15	03/20/20 14:10
2630320019	FB-2-3-19-20	Water	03/19/20 11:15	03/20/20 14:10
2630320020	DUP-2	Water	03/20/20 00:00	03/20/20 14:10
2630255009	DUP-1	Water	03/18/20 00:00	03/20/20 14:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630320001	YGWA-1I	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320002	YGWA-1D	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320003	YGWA-2I	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320004	YGWA-3I	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320005	YGWA-3D	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320006	YGWA-14S	EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320007	YGWA-30I	EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320008	EB-1-3-19-20	EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320009	FB-1-3-19-20	EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320011	YGWC-26S	EPA 6010D	KLH	1	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630320012	YGWC-26I	EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
2630320013	YGWC-27S	SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630320014	YGWC-27I	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320015	YGWC-28S	EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
2630320016	YGWC-28I	EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
2630320017	YGWC-29I	SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2630320018	EB-2-3-19-20	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2630320019	FB-2-3-19-20	EPA 6010D	KLH	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	KLH	1	PASI-GA
2630320020	DUP-2	EPA 6020B	CSW	13	PASI-GA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630255009	DUP-1	SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6010D	DRB	1	PASI-GA
		EPA 6020B	CSW	13	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

PASI-A = Pace Analytical Services - Asheville

PASI-GA = Pace Analytical Services - Atlanta, GA

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630320001	YGWA-1I					
	Field pH	6.19	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	2.1	mg/L	1.0	03/25/20 17:06	
EPA 6020B	Antimony	0.00040J	mg/L	0.0030	03/26/20 18:06	B
EPA 6020B	Barium	0.0084J	mg/L	0.010	03/26/20 18:06	
EPA 6020B	Boron	0.0087J	mg/L	0.10	03/26/20 18:06	
EPA 6020B	Chromium	0.00044J	mg/L	0.010	03/26/20 18:06	
EPA 6020B	Cobalt	0.00087J	mg/L	0.0050	03/26/20 18:06	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	03/26/20 18:06	
EPA 6020B	Molybdenum	0.0056J	mg/L	0.010	03/26/20 18:06	
SM 2540C	Total Dissolved Solids	35.0	mg/L	10.0	03/23/20 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	1.4	mg/L	1.0	03/27/20 09:54	
EPA 300.0 Rev 2.1 1993	Sulfate	5.3	mg/L	1.0	03/27/20 09:54	
2630320002	YGWA-1D					
	Field pH	7.03	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	15.0	mg/L	1.0	03/25/20 17:10	
EPA 6020B	Arsenic	0.00095J	mg/L	0.0050	03/26/20 18:12	
EPA 6020B	Barium	0.0076J	mg/L	0.010	03/26/20 18:12	
EPA 6020B	Boron	0.0085J	mg/L	0.10	03/26/20 18:12	
EPA 6020B	Chromium	0.00084J	mg/L	0.010	03/26/20 18:12	
EPA 6020B	Lead	0.00012J	mg/L	0.0050	03/26/20 18:12	
EPA 6020B	Lithium	0.013J	mg/L	0.030	03/26/20 18:12	
EPA 6020B	Molybdenum	0.0088J	mg/L	0.010	03/26/20 18:12	
SM 2540C	Total Dissolved Solids	116	mg/L	10.0	03/24/20 14:10	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	03/27/20 10:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.064J	mg/L	0.30	03/27/20 10:08	
EPA 300.0 Rev 2.1 1993	Sulfate	10	mg/L	1.0	03/27/20 10:08	
2630320003	YGWA-2I					
	Field pH	7.22	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	27.4	mg/L	1.0	03/25/20 17:20	
EPA 6020B	Antimony	0.00030J	mg/L	0.0030	03/26/20 18:18	B
EPA 6020B	Arsenic	0.00066J	mg/L	0.0050	03/26/20 18:18	
EPA 6020B	Barium	0.0036J	mg/L	0.010	03/26/20 18:18	
EPA 6020B	Boron	0.0073J	mg/L	0.10	03/26/20 18:18	
EPA 6020B	Chromium	0.00048J	mg/L	0.010	03/26/20 18:18	
EPA 6020B	Lithium	0.0022J	mg/L	0.030	03/26/20 18:18	
EPA 6020B	Molybdenum	0.0046J	mg/L	0.010	03/26/20 18:18	
SM 2540C	Total Dissolved Solids	148	mg/L	10.0	03/24/20 14:10	
EPA 300.0 Rev 2.1 1993	Chloride	0.97J	mg/L	1.0	03/27/20 10:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.093J	mg/L	0.30	03/27/20 10:23	
EPA 300.0 Rev 2.1 1993	Sulfate	12.4	mg/L	1.0	03/27/20 10:23	
2630320004	YGWA-3I					
	Field pH	7.31	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	21.9	mg/L	1.0	03/25/20 17:24	
EPA 6020B	Barium	0.0029J	mg/L	0.010	03/26/20 18:38	
EPA 6020B	Boron	0.0053J	mg/L	0.10	03/26/20 18:38	
EPA 6020B	Lithium	0.014J	mg/L	0.030	03/26/20 18:38	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630320004	YGWA-3I					
EPA 6020B	Molybdenum	0.0043J	mg/L	0.010	03/26/20 18:38	
SM 2540C	Total Dissolved Solids	148	mg/L	10.0	03/24/20 14:10	D6
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	03/27/20 10:37	
EPA 300.0 Rev 2.1 1993	Fluoride	0.11J	mg/L	0.30	03/27/20 10:37	
EPA 300.0 Rev 2.1 1993	Sulfate	12.9	mg/L	1.0	03/27/20 10:37	
2630320005	YGWA-3D					
	Field pH	7.65	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	31.5	mg/L	1.0	03/25/20 17:27	
EPA 6020B	Antimony	0.00064J	mg/L	0.0030	03/26/20 18:44	B
EPA 6020B	Barium	0.0072J	mg/L	0.010	03/26/20 18:44	
EPA 6020B	Boron	0.0073J	mg/L	0.10	03/26/20 18:44	
EPA 6020B	Lead	0.00017J	mg/L	0.0050	03/26/20 18:44	
EPA 6020B	Lithium	0.023J	mg/L	0.030	03/26/20 18:44	
EPA 6020B	Molybdenum	0.013	mg/L	0.010	03/26/20 18:44	
SM 2540C	Total Dissolved Solids	146	mg/L	10.0	03/24/20 14:11	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	03/27/20 10:52	
EPA 300.0 Rev 2.1 1993	Fluoride	0.51	mg/L	0.30	03/27/20 10:52	
EPA 300.0 Rev 2.1 1993	Sulfate	9.0	mg/L	1.0	03/27/20 10:52	
2630320006	YGWA-14S					
	Field pH	5.38	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	1.1	mg/L	1.0	03/25/20 17:31	
EPA 6020B	Barium	0.0076J	mg/L	0.010	03/26/20 18:50	
EPA 6020B	Beryllium	0.00021J	mg/L	0.0030	03/26/20 18:50	
EPA 6020B	Boron	0.020J	mg/L	0.10	03/26/20 18:50	
SM 2540C	Total Dissolved Solids	57.0	mg/L	10.0	03/24/20 14:08	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	03/27/20 11:06	
EPA 300.0 Rev 2.1 1993	Sulfate	8.1	mg/L	1.0	03/27/20 11:06	
2630320007	YGWA-30I					
	Field pH	6.00	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	1.2	mg/L	1.0	03/26/20 12:39	
EPA 6020B	Barium	0.0074J	mg/L	0.010	03/26/20 18:55	
EPA 6020B	Boron	0.0052J	mg/L	0.10	03/26/20 18:55	
EPA 6020B	Cobalt	0.014	mg/L	0.0050	03/26/20 18:55	
EPA 6020B	Lithium	0.0012J	mg/L	0.030	03/26/20 18:55	
SM 2540C	Total Dissolved Solids	47.0	mg/L	10.0	03/24/20 14:11	
EPA 300.0 Rev 2.1 1993	Chloride	1.8	mg/L	1.0	03/27/20 11:21	
EPA 300.0 Rev 2.1 1993	Sulfate	1.6	mg/L	1.0	03/27/20 11:21	
2630320009	FB-1-3-19-20					
EPA 6020B	Boron	0.0050J	mg/L	0.10	03/27/20 16:15	
EPA 6020B	Thallium	0.000079J	mg/L	0.0010	03/27/20 16:15	
2630320011	YGWC-26S					
	Field pH	5.46	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	13.0	mg/L	1.0	03/26/20 13:04	
EPA 6020B	Antimony	0.0017J	mg/L	0.0030	03/27/20 16:43	B

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630320011	YGWC-26S					
EPA 6020B	Barium	0.027	mg/L	0.010	03/27/20 16:43	
EPA 6020B	Beryllium	0.00012J	mg/L	0.0030	03/27/20 16:43	
EPA 6020B	Boron	0.73	mg/L	0.10	03/27/20 16:43	
EPA 6020B	Chromium	0.0018J	mg/L	0.010	03/27/20 16:43	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	03/27/20 16:43	
EPA 6020B	Lead	0.00010J	mg/L	0.0050	03/27/20 16:43	
EPA 6020B	Thallium	0.000055J	mg/L	0.0010	03/27/20 16:43	
SM 2540C	Total Dissolved Solids	194	mg/L	10.0	03/24/20 14:11	
EPA 300.0 Rev 2.1 1993	Chloride	15.4	mg/L	1.0	03/27/20 13:31	
EPA 300.0 Rev 2.1 1993	Sulfate	99.4	mg/L	1.0	03/27/20 13:31	
2630320012	YGWC-26I					
	Field pH	5.94	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	17.1	mg/L	1.0	03/26/20 13:14	
EPA 6020B	Antimony	0.00059J	mg/L	0.0030	03/27/20 16:49	B
EPA 6020B	Barium	0.063	mg/L	0.010	03/27/20 16:49	
EPA 6020B	Boron	0.94	mg/L	0.10	03/27/20 16:49	
EPA 6020B	Chromium	0.00090J	mg/L	0.010	03/27/20 16:49	
EPA 6020B	Lead	0.000059J	mg/L	0.0050	03/27/20 16:49	
EPA 6020B	Lithium	0.0072J	mg/L	0.030	03/27/20 16:49	
EPA 6020B	Selenium	0.0019J	mg/L	0.010	03/27/20 16:49	
SM 2540C	Total Dissolved Solids	211	mg/L	10.0	03/24/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	17.7	mg/L	1.0	03/27/20 13:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.30	03/27/20 13:46	
EPA 300.0 Rev 2.1 1993	Sulfate	84.7	mg/L	1.0	03/27/20 13:46	
2630320013	YGWC-27S					
	Field pH	6.18	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	42.1	mg/L	1.0	03/26/20 13:17	
EPA 6020B	Antimony	0.00030J	mg/L	0.0030	03/27/20 16:55	B
EPA 6020B	Barium	0.095	mg/L	0.010	03/27/20 16:55	
EPA 6020B	Boron	1.4	mg/L	0.10	03/27/20 16:55	
EPA 6020B	Chromium	0.00050J	mg/L	0.010	03/27/20 16:55	
EPA 6020B	Cobalt	0.0022J	mg/L	0.0050	03/27/20 16:55	
EPA 6020B	Lead	0.000085J	mg/L	0.0050	03/27/20 16:55	
EPA 6020B	Thallium	0.00011J	mg/L	0.0010	03/27/20 16:55	
SM 2540C	Total Dissolved Solids	182	mg/L	10.0	03/24/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	17.7	mg/L	1.0	03/27/20 14:00	
EPA 300.0 Rev 2.1 1993	Fluoride	0.097J	mg/L	0.30	03/27/20 14:00	
EPA 300.0 Rev 2.1 1993	Sulfate	21.1	mg/L	1.0	03/27/20 14:00	
2630320014	YGWC-27I					
	Field pH	6.32	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	30.3	mg/L	1.0	03/26/20 13:21	
EPA 6020B	Antimony	0.00033J	mg/L	0.0030	03/27/20 17:44	B
EPA 6020B	Arsenic	0.00042J	mg/L	0.0050	03/27/20 17:44	
EPA 6020B	Barium	0.062	mg/L	0.010	03/27/20 17:44	
EPA 6020B	Beryllium	0.00023J	mg/L	0.0030	03/27/20 17:44	
EPA 6020B	Boron	2.1	mg/L	0.10	03/27/20 17:44	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
2630320014	YGWC-27I					
EPA 6020B	Cobalt	0.014	mg/L	0.0050	03/27/20 17:44	
EPA 6020B	Lithium	0.0091J	mg/L	0.030	03/27/20 17:44	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	03/27/20 17:44	
SM 2540C	Total Dissolved Solids	195	mg/L	10.0	03/24/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	13.0	mg/L	1.0	03/27/20 14:15	
EPA 300.0 Rev 2.1 1993	Sulfate	5.2	mg/L	1.0	03/27/20 14:15	
2630320015	YGWC-28S					
	Field pH	6.98	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	30.4	mg/L	1.0	03/26/20 13:24	
EPA 6020B	Arsenic	0.00051J	mg/L	0.0050	03/27/20 17:50	
EPA 6020B	Barium	0.20	mg/L	0.010	03/27/20 17:50	
EPA 6020B	Boron	2.5	mg/L	0.10	03/27/20 17:50	
EPA 6020B	Chromium	0.00049J	mg/L	0.010	03/27/20 17:50	
EPA 6020B	Cobalt	0.00093J	mg/L	0.0050	03/27/20 17:50	
EPA 6020B	Lead	0.000075J	mg/L	0.0050	03/27/20 17:50	
SM 2540C	Total Dissolved Solids	202	mg/L	10.0	03/24/20 14:12	
EPA 300.0 Rev 2.1 1993	Chloride	18.1	mg/L	1.0	03/27/20 14:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16J	mg/L	0.30	03/27/20 14:29	
EPA 300.0 Rev 2.1 1993	Sulfate	1.7	mg/L	1.0	03/27/20 14:29	
2630320016	YGWC-28I					
	Field pH	7.01	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	37.3	mg/L	1.0	03/26/20 13:28	
EPA 6020B	Barium	0.089	mg/L	0.010	03/27/20 17:56	
EPA 6020B	Boron	2.4	mg/L	0.10	03/27/20 17:56	
EPA 6020B	Cadmium	0.00016J	mg/L	0.0025	03/27/20 17:56	
EPA 6020B	Lithium	0.0070J	mg/L	0.030	03/27/20 17:56	
EPA 6020B	Molybdenum	0.0014J	mg/L	0.010	03/27/20 17:56	
SM 2540C	Total Dissolved Solids	212	mg/L	10.0	03/24/20 14:12	
EPA 300.0 Rev 2.1 1993	Chloride	16.0	mg/L	1.0	03/27/20 14:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.070J	mg/L	0.30	03/27/20 14:44	
EPA 300.0 Rev 2.1 1993	Sulfate	9.1	mg/L	1.0	03/27/20 14:44	
2630320017	YGWC-29I					
	Field pH	6.17	Std. Units		03/23/20 09:08	
EPA 6010D	Calcium	12.7	mg/L	1.0	03/26/20 13:31	
EPA 6020B	Barium	0.057	mg/L	0.010	03/27/20 18:01	
EPA 6020B	Boron	0.80	mg/L	0.10	03/27/20 18:01	
EPA 6020B	Cadmium	0.00022J	mg/L	0.0025	03/27/20 18:01	
EPA 6020B	Lithium	0.0051J	mg/L	0.030	03/27/20 18:01	
SM 2540C	Total Dissolved Solids	137	mg/L	10.0	03/24/20 14:23	
EPA 300.0 Rev 2.1 1993	Chloride	11.3	mg/L	1.0	03/27/20 14:58	
EPA 300.0 Rev 2.1 1993	Fluoride	0.057J	mg/L	0.30	03/27/20 14:58	
EPA 300.0 Rev 2.1 1993	Sulfate	33.0	mg/L	1.0	03/27/20 14:58	
2630320018	EB-2-3-19-20					
EPA 6020B	Boron	0.0096J	mg/L	0.10	03/27/20 18:07	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
2630320019	FB-2-3-19-20					
EPA 6020B	Boron	0.0070J	mg/L	0.10	03/27/20 18:13	
2630320020	DUP-2					
EPA 6010D	Calcium	17.2	mg/L	1.0	03/26/20 13:42	
EPA 6020B	Barium	0.062	mg/L	0.010	03/27/20 18:18	
EPA 6020B	Boron	0.92	mg/L	0.10	03/27/20 18:18	
EPA 6020B	Chromium	0.00093J	mg/L	0.010	03/27/20 18:18	
EPA 6020B	Lead	0.000071J	mg/L	0.0050	03/27/20 18:18	
EPA 6020B	Lithium	0.0071J	mg/L	0.030	03/27/20 18:18	
EPA 6020B	Selenium	0.0022J	mg/L	0.010	03/27/20 18:18	
SM 2540C	Total Dissolved Solids	178	mg/L	10.0	03/24/20 14:24	
EPA 300.0 Rev 2.1 1993	Chloride	17.0	mg/L	1.0	03/26/20 16:29	
EPA 300.0 Rev 2.1 1993	Fluoride	0.071J	mg/L	0.30	03/26/20 16:29	
EPA 300.0 Rev 2.1 1993	Sulfate	83.5	mg/L	1.0	03/26/20 16:29	
2630255009	DUP-1					
EPA 6010D	Calcium	1.1	mg/L	1.0	03/25/20 16:59	
EPA 6020B	Barium	0.0080J	mg/L	0.010	03/26/20 17:55	
EPA 6020B	Beryllium	0.00020J	mg/L	0.0030	03/26/20 17:55	
EPA 6020B	Boron	0.033J	mg/L	0.10	03/26/20 17:55	
EPA 6020B	Selenium	0.0015J	mg/L	0.010	03/26/20 17:55	
SM 2540C	Total Dissolved Solids	42.0	mg/L	10.0	03/23/20 18:14	
EPA 300.0 Rev 2.1 1993	Chloride	5.4	mg/L	1.0	03/26/20 17:13	
EPA 300.0 Rev 2.1 1993	Sulfate	9.9	mg/L	1.0	03/26/20 17:13	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWA-1I		Lab ID: 2630320001		Collected: 03/18/20 15:37		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.19	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	2.1	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 17:06	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.00040J	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 18:06	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 18:06	7440-38-2	
Barium	0.0084J	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 18:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 18:06	7440-41-7	
Boron	0.0087J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 18:06	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 18:06	7440-43-9	
Chromium	0.00044J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 18:06	7440-47-3	
Cobalt	0.00087J	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 18:06	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 18:06	7439-92-1	
Lithium	0.0024J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 18:06	7439-93-2	
Molybdenum	0.0056J	mg/L	0.010	0.00095	1	03/24/20 19:40	03/26/20 18:06	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 18:06	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 18:06	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	35.0	mg/L	10.0	10.0	1		03/23/20 18:14		
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		03/27/20 09:54	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/27/20 09:54	16984-48-8	
Sulfate	5.3	mg/L	1.0	0.50	1		03/27/20 09:54	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWA-1D		Lab ID: 2630320002		Collected: 03/19/20 10:33		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.03	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	15.0	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 17:10	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 18:12	7440-36-0	
Arsenic	0.00095J	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 18:12	7440-38-2	
Barium	0.0076J	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 18:12	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 18:12	7440-41-7	
Boron	0.0085J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 18:12	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 18:12	7440-43-9	
Chromium	0.00084J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 18:12	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 18:12	7440-48-4	
Lead	0.00012J	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 18:12	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 18:12	7439-93-2	
Molybdenum	0.0088J	mg/L	0.010	0.00095	1	03/24/20 19:40	03/26/20 18:12	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 18:12	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 18:12	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	116	mg/L	10.0	10.0	1		03/24/20 14:10		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.1	mg/L	1.0	0.60	1		03/27/20 10:08	16887-00-6	
Fluoride	0.064J	mg/L	0.30	0.050	1		03/27/20 10:08	16984-48-8	
Sulfate	10	mg/L	1.0	0.50	1		03/27/20 10:08	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWA-2I		Lab ID: 2630320003		Collected: 03/19/20 12:37		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.22	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	27.4	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 17:20	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.00030J	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 18:18	7440-36-0	B
Arsenic	0.00066J	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 18:18	7440-38-2	
Barium	0.0036J	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 18:18	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 18:18	7440-41-7	
Boron	0.0073J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 18:18	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 18:18	7440-43-9	
Chromium	0.00048J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 18:18	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 18:18	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 18:18	7439-92-1	
Lithium	0.0022J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 18:18	7439-93-2	
Molybdenum	0.0046J	mg/L	0.010	0.00095	1	03/24/20 19:40	03/26/20 18:18	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 18:18	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 18:18	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	148	mg/L	10.0	10.0	1		03/24/20 14:10		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.97J	mg/L	1.0	0.60	1		03/27/20 10:23	16887-00-6	
Fluoride	0.093J	mg/L	0.30	0.050	1		03/27/20 10:23	16984-48-8	
Sulfate	12.4	mg/L	1.0	0.50	1		03/27/20 10:23	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWA-3I		Lab ID: 2630320004		Collected: 03/19/20 11:00		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.31	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	21.9	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 17:24	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 18:38	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 18:38	7440-38-2	
Barium	0.0029J	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 18:38	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 18:38	7440-41-7	
Boron	0.0053J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 18:38	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 18:38	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 18:38	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 18:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 18:38	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 18:38	7439-93-2	
Molybdenum	0.0043J	mg/L	0.010	0.00095	1	03/24/20 19:40	03/26/20 18:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 18:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 18:38	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	148	mg/L	10.0	10.0	1		03/24/20 14:10		D6
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.1	mg/L	1.0	0.60	1		03/27/20 10:37	16887-00-6	
Fluoride	0.11J	mg/L	0.30	0.050	1		03/27/20 10:37	16984-48-8	
Sulfate	12.9	mg/L	1.0	0.50	1		03/27/20 10:37	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWA-3D		Lab ID: 2630320005		Collected: 03/19/20 12:10		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.65	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	31.5	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 17:27	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.00064J	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 18:44	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 18:44	7440-38-2	
Barium	0.0072J	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 18:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 18:44	7440-41-7	
Boron	0.0073J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 18:44	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 18:44	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 18:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 18:44	7440-48-4	
Lead	0.00017J	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 18:44	7439-92-1	
Lithium	0.023J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 18:44	7439-93-2	
Molybdenum	0.013	mg/L	0.010	0.00095	1	03/24/20 19:40	03/26/20 18:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 18:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 18:44	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	146	mg/L	10.0	10.0	1		03/24/20 14:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.2	mg/L	1.0	0.60	1		03/27/20 10:52	16887-00-6	
Fluoride	0.51	mg/L	0.30	0.050	1		03/27/20 10:52	16984-48-8	
Sulfate	9.0	mg/L	1.0	0.50	1		03/27/20 10:52	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWA-14S		Lab ID: 2630320006		Collected: 03/18/20 15:50		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.38	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	1.1	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 17:31	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 18:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 18:50	7440-38-2	
Barium	0.0076J	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 18:50	7440-39-3	
Beryllium	0.00021J	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 18:50	7440-41-7	
Boron	0.020J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 18:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 18:50	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 18:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 18:50	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 18:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 18:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/26/20 18:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 18:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 18:50	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	57.0	mg/L	10.0	10.0	1		03/24/20 14:08		
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		03/27/20 11:06	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/27/20 11:06	16984-48-8	
Sulfate	8.1	mg/L	1.0	0.50	1		03/27/20 11:06	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWA-30I		Lab ID: 2630320007		Collected: 03/19/20 14:20		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.00	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	1.2	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 12:39	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 18:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 18:55	7440-38-2	
Barium	0.0074J	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 18:55	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 18:55	7440-41-7	
Boron	0.0052J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 18:55	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 18:55	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 18:55	7440-47-3	
Cobalt	0.014	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 18:55	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 18:55	7439-92-1	
Lithium	0.0012J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 18:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/26/20 18:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 18:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 18:55	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	47.0	mg/L	10.0	10.0	1		03/24/20 14:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.8	mg/L	1.0	0.60	1		03/27/20 11:21	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/27/20 11:21	16984-48-8	
Sulfate	1.6	mg/L	1.0	0.50	1		03/27/20 11:21	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: EB-1-3-19-20		Lab ID: 2630320008		Collected: 03/19/20 13:15		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	ND	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 12:53	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 19:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 19:07	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 19:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 19:07	7440-41-7	
Boron	ND	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 19:07	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 19:07	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 19:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 19:07	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 19:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 19:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/26/20 19:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 19:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 19:07	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/24/20 14:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/27/20 11:35	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/27/20 11:35	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/27/20 11:35	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Sample: FB-1-3-19-20		Lab ID: 2630320009		Collected: 03/19/20 15:15		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Atlanta, GA									
Calcium	ND	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 12:57	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 16:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 16:15	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 16:15	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 16:15	7440-41-7	
Boron	0.0050J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 16:15	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 16:15	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 16:15	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 16:15	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 16:15	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 16:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 16:15	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 16:15	7782-49-2	
Thallium	0.000079J	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 16:15	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C									
Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/24/20 14:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993									
Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/27/20 11:50	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/27/20 11:50	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/27/20 11:50	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWC-26S		Lab ID: 2630320011		Collected: 03/19/20 16:47		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.46	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	13.0	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:04	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.0017J	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 16:43	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 16:43	7440-38-2	
Barium	0.027	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 16:43	7440-39-3	
Beryllium	0.00012J	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 16:43	7440-41-7	
Boron	0.73	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 16:43	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 16:43	7440-43-9	
Chromium	0.0018J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 16:43	7440-47-3	
Cobalt	0.0021J	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 16:43	7440-48-4	
Lead	0.00010J	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 16:43	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 16:43	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 16:43	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 16:43	7782-49-2	
Thallium	0.000055J	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 16:43	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	194	mg/L	10.0	10.0	1		03/24/20 14:11		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	15.4	mg/L	1.0	0.60	1		03/27/20 13:31	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/27/20 13:31	16984-48-8	
Sulfate	99.4	mg/L	1.0	0.50	1		03/27/20 13:31	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWC-26I		Lab ID: 2630320012		Collected: 03/20/20 10:47		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	5.94	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	17.1	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:14	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.00059J	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 16:49	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 16:49	7440-38-2	
Barium	0.063	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 16:49	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 16:49	7440-41-7	
Boron	0.94	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 16:49	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 16:49	7440-43-9	
Chromium	0.00090J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 16:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 16:49	7440-48-4	
Lead	0.00059J	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 16:49	7439-92-1	
Lithium	0.0072J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 16:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 16:49	7439-98-7	
Selenium	0.0019J	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 16:49	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 16:49	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	211	mg/L	10.0	10.0	1		03/24/20 14:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	17.7	mg/L	1.0	0.60	1		03/27/20 13:46	16887-00-6	
Fluoride	0.060J	mg/L	0.30	0.050	1		03/27/20 13:46	16984-48-8	
Sulfate	84.7	mg/L	1.0	0.50	1		03/27/20 13:46	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWC-27S		Lab ID: 2630320013		Collected: 03/20/20 12:00		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.18	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	42.1	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:17	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.00030J	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 16:55	7440-36-0	B
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 16:55	7440-38-2	
Barium	0.095	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 16:55	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 16:55	7440-41-7	
Boron	1.4	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 16:55	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 16:55	7440-43-9	
Chromium	0.00050J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 16:55	7440-47-3	
Cobalt	0.0022J	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 16:55	7440-48-4	
Lead	0.000085J	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 16:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 16:55	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 16:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 16:55	7782-49-2	
Thallium	0.00011J	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 16:55	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	182	mg/L	10.0	10.0	1		03/24/20 14:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	17.7	mg/L	1.0	0.60	1		03/27/20 14:00	16887-00-6	
Fluoride	0.097J	mg/L	0.30	0.050	1		03/27/20 14:00	16984-48-8	
Sulfate	21.1	mg/L	1.0	0.50	1		03/27/20 14:00	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWC-271		Lab ID: 2630320014		Collected: 03/20/20 12:05		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.32	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	30.3	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:21	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	0.00033J	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 17:44	7440-36-0	B
Arsenic	0.00042J	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 17:44	7440-38-2	
Barium	0.062	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 17:44	7440-39-3	
Beryllium	0.00023J	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 17:44	7440-41-7	
Boron	2.1	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 17:44	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 17:44	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 17:44	7440-47-3	
Cobalt	0.014	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 17:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 17:44	7439-92-1	
Lithium	0.0091J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 17:44	7439-93-2	
Molybdenum	0.0014J	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 17:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 17:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 17:44	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	195	mg/L	10.0	10.0	1		03/24/20 14:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.0	mg/L	1.0	0.60	1		03/27/20 14:15	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/27/20 14:15	16984-48-8	
Sulfate	5.2	mg/L	1.0	0.50	1		03/27/20 14:15	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWC-28S		Lab ID: 2630320015		Collected: 03/19/20 14:55		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.98	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	30.4	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:24	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 17:50	7440-36-0	
Arsenic	0.00051J	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 17:50	7440-38-2	
Barium	0.20	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 17:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 17:50	7440-41-7	
Boron	2.5	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 17:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 17:50	7440-43-9	
Chromium	0.00049J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 17:50	7440-47-3	
Cobalt	0.00093J	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 17:50	7440-48-4	
Lead	0.000075J	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 17:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 17:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 17:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 17:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 17:50	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	202	mg/L	10.0	10.0	1		03/24/20 14:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.1	mg/L	1.0	0.60	1		03/27/20 14:29	16887-00-6	
Fluoride	0.16J	mg/L	0.30	0.050	1		03/27/20 14:29	16984-48-8	
Sulfate	1.7	mg/L	1.0	0.50	1		03/27/20 14:29	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWC-28I		Lab ID: 2630320016		Collected: 03/19/20 16:00		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	7.01	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	37.3	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:28	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 17:56	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 17:56	7440-38-2	
Barium	0.089	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 17:56	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 17:56	7440-41-7	
Boron	2.4	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 17:56	7440-42-8	
Cadmium	0.00016J	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 17:56	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 17:56	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 17:56	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 17:56	7439-92-1	
Lithium	0.0070J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 17:56	7439-93-2	
Molybdenum	0.0014J	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 17:56	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 17:56	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 17:56	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	212	mg/L	10.0	10.0	1		03/24/20 14:12		
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		03/27/20 14:44	16887-00-6	
Fluoride	0.070J	mg/L	0.30	0.050	1		03/27/20 14:44	16984-48-8	
Sulfate	9.1	mg/L	1.0	0.50	1		03/27/20 14:44	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: YGWC-29I		Lab ID: 2630320017		Collected: 03/20/20 10:12		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Atlanta, GA									
Field pH	6.17	Std. Units			1		03/23/20 09:08		
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	12.7	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:31	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 18:01	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 18:01	7440-38-2	
Barium	0.057	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 18:01	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 18:01	7440-41-7	
Boron	0.80	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 18:01	7440-42-8	
Cadmium	0.00022J	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 18:01	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 18:01	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 18:01	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 18:01	7439-92-1	
Lithium	0.0051J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 18:01	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 18:01	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 18:01	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 18:01	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	137	mg/L	10.0	10.0	1		03/24/20 14:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	11.3	mg/L	1.0	0.60	1		03/27/20 14:58	16887-00-6	
Fluoride	0.057J	mg/L	0.30	0.050	1		03/27/20 14:58	16984-48-8	
Sulfate	33.0	mg/L	1.0	0.50	1		03/27/20 14:58	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: EB-2-3-19-20		Lab ID: 2630320018		Collected: 03/19/20 13:15		Received: 03/20/20 14:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6010D MET ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA									
Calcium	ND	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:35	7440-70-2	
6020B MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA									
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 18:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 18:07	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 18:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 18:07	7440-41-7	
Boron	0.0096J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 18:07	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 18:07	7440-43-9	
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 18:07	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 18:07	7440-48-4	
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 18:07	7439-92-1	
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 18:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 18:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 18:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 18:07	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/24/20 14:12		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	ND	mg/L	1.0	0.60	1		03/27/20 15:13	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		03/27/20 15:13	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		03/27/20 15:13	14808-79-8	

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: FB-2-3-19-20		Lab ID: 2630320019		Collected: 03/19/20 11:15		Received: 03/20/20 14:10		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA								
Calcium	ND	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:38	7440-70-2		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA								
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 18:13	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 18:13	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 18:13	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 18:13	7440-41-7		
Boron	0.0070J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 18:13	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 18:13	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 18:13	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 18:13	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 18:13	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 18:13	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 18:13	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 18:13	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 18:13	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		03/24/20 14:12			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	ND	mg/L	1.0	0.60	1		03/26/20 15:46	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		03/26/20 15:46	16984-48-8	M1,R1	
Sulfate	ND	mg/L	1.0	0.50	1		03/26/20 15:46	14808-79-8		

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: DUP-2		Lab ID: 2630320020		Collected: 03/20/20 00:00		Received: 03/20/20 14:10		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA								
Calcium	17.2	mg/L	1.0	0.14	1	03/24/20 19:40	03/26/20 13:42	7440-70-2		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA								
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/27/20 18:18	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/27/20 18:18	7440-38-2		
Barium	0.062	mg/L	0.010	0.00049	1	03/24/20 19:40	03/27/20 18:18	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/27/20 18:18	7440-41-7		
Boron	0.92	mg/L	0.10	0.0049	1	03/24/20 19:40	03/27/20 18:18	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/27/20 18:18	7440-43-9		
Chromium	0.00093J	mg/L	0.010	0.00039	1	03/24/20 19:40	03/27/20 18:18	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/27/20 18:18	7440-48-4		
Lead	0.000071J	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/27/20 18:18	7439-92-1		
Lithium	0.0071J	mg/L	0.030	0.00078	1	03/24/20 19:40	03/27/20 18:18	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/27/20 18:18	7439-98-7		
Selenium	0.0022J	mg/L	0.010	0.0013	1	03/24/20 19:40	03/27/20 18:18	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/27/20 18:18	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA								
Total Dissolved Solids	178	mg/L	10.0	10.0	1		03/24/20 14:24			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville								
Chloride	17.0	mg/L	1.0	0.60	1		03/26/20 16:29	16887-00-6		
Fluoride	0.071J	mg/L	0.30	0.050	1		03/26/20 16:29	16984-48-8		
Sulfate	83.5	mg/L	1.0	0.50	1		03/26/20 16:29	14808-79-8		

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ANALYTICAL RESULTS

Project: PLANT YATES AP-2
Pace Project No.: 2630320

Sample: DUP-1		Lab ID: 2630255009		Collected: 03/18/20 00:00		Received: 03/20/20 14:10		Matrix: Water		
Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual	
			Limit	MDL	DF					
6010D MET ICP		Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Atlanta, GA								
Calcium	1.1	mg/L	1.0	0.14	1	03/24/20 18:00	03/25/20 16:59	7440-70-2		
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Atlanta, GA								
Antimony	ND	mg/L	0.0030	0.00027	1	03/24/20 19:40	03/26/20 17:55	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00035	1	03/24/20 19:40	03/26/20 17:55	7440-38-2		
Barium	0.0080J	mg/L	0.010	0.00049	1	03/24/20 19:40	03/26/20 17:55	7440-39-3		
Beryllium	0.00020J	mg/L	0.0030	0.000074	1	03/24/20 19:40	03/26/20 17:55	7440-41-7		
Boron	0.033J	mg/L	0.10	0.0049	1	03/24/20 19:40	03/26/20 17:55	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	03/24/20 19:40	03/26/20 17:55	7440-43-9		
Chromium	ND	mg/L	0.010	0.00039	1	03/24/20 19:40	03/26/20 17:55	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	03/24/20 19:40	03/26/20 17:55	7440-48-4		
Lead	ND	mg/L	0.0050	0.000046	1	03/24/20 19:40	03/26/20 17:55	7439-92-1		
Lithium	ND	mg/L	0.030	0.00078	1	03/24/20 19:40	03/26/20 17:55	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	03/24/20 19:40	03/26/20 17:55	7439-98-7		
Selenium	0.0015J	mg/L	0.010	0.0013	1	03/24/20 19:40	03/26/20 17:55	7782-49-2		
Thallium	ND	mg/L	0.0010	0.000052	1	03/24/20 19:40	03/26/20 17:55	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2540C Pace Analytical Services - Atlanta, GA								
Total Dissolved Solids	42.0	mg/L	10.0	10.0	1		03/23/20 18:14			
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		03/26/20 17:13	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		03/26/20 17:13	16984-48-8		
Sulfate	9.9	mg/L	1.0	0.50	1		03/26/20 17:13	14808-79-8		

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

QC Batch: 44881 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D MET
Laboratory: Pace Analytical Services - Atlanta, GA
Associated Lab Samples: 2630255009, 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006

METHOD BLANK: 206477 Matrix: Water
Associated Lab Samples: 2630255009, 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/25/20 16:05	

LABORATORY CONTROL SAMPLE: 206478

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

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206479 206480

Parameter	Units	2630257002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	31.9	1	1	33.2	33.9	123	195	75-125	2	20	M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

QC Batch:	44895	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D MET
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

METHOD BLANK: 206546 Matrix: Water

Associated Lab Samples: 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.14	03/26/20 12:32	

LABORATORY CONTROL SAMPLE: 206547

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.1	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206548 206549

Parameter	Units	2630320007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	1.2	1	1	2.3	2.3	105	102	75-125	1	20	

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

QC Batch: 44893 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Laboratory: Pace Analytical Services - Atlanta, GA
Associated Lab Samples: 2630255009, 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008

METHOD BLANK: 206538 Matrix: Water
Associated Lab Samples: 2630255009, 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00031J	0.0030	0.00027	03/26/20 16:09	
Arsenic	mg/L	ND	0.0050	0.00035	03/26/20 16:09	
Barium	mg/L	ND	0.010	0.00049	03/26/20 16:09	
Beryllium	mg/L	ND	0.0030	0.000074	03/26/20 16:09	
Boron	mg/L	ND	0.10	0.0049	03/26/20 16:09	
Cadmium	mg/L	ND	0.0025	0.00011	03/26/20 16:09	
Chromium	mg/L	ND	0.010	0.00039	03/26/20 16:09	
Cobalt	mg/L	ND	0.0050	0.00030	03/26/20 16:09	
Lead	mg/L	ND	0.0050	0.000046	03/26/20 16:09	
Lithium	mg/L	ND	0.030	0.00078	03/26/20 16:09	
Molybdenum	mg/L	ND	0.010	0.00095	03/26/20 16:09	
Selenium	mg/L	ND	0.010	0.0013	03/26/20 16:09	
Thallium	mg/L	ND	0.0010	0.000052	03/26/20 16:09	

LABORATORY CONTROL SAMPLE: 206539

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	114	80-120	
Arsenic	mg/L	0.1	0.10	101	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	110	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.11	107	80-120	
Cobalt	mg/L	0.1	0.10	104	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	103	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206540 206541

Parameter	Units	2630257002 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Antimony	mg/L	0.00042J	0.1	0.1	0.11	0.11	111	108	75-125	3	20	

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Parameter	Units	206540		206541		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20		
Barium	mg/L	0.099	0.1	0.1	0.20	0.19	102	95	75-125	3	20		
Beryllium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20		
Boron	mg/L	0.61	1	1	1.6	1.6	97	98	75-125	0	20		
Cadmium	mg/L	ND	0.1	0.1	0.099	0.096	99	96	75-125	3	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	104	75-125	0	20		
Cobalt	mg/L	0.0040J	0.1	0.1	0.10	0.10	101	101	75-125	0	20		
Lead	mg/L	0.00010J	0.1	0.1	0.095	0.095	95	95	75-125	0	20		
Lithium	mg/L	0.013J	0.1	0.1	0.11	0.11	94	97	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.098	97	97	75-125	0	20		
Thallium	mg/L	0.000080J	0.1	0.1	0.096	0.095	95	95	75-125	0	20		

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

QC Batch:	44894	Analysis Method:	EPA 6020B
QC Batch Method:	EPA 3005A	Analysis Description:	6020B MET
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

METHOD BLANK: 206542 Matrix: Water
Associated Lab Samples: 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	0.00034J	0.0030	0.00027	03/27/20 16:03	
Arsenic	mg/L	ND	0.0050	0.00035	03/27/20 16:03	
Barium	mg/L	ND	0.010	0.00049	03/27/20 16:03	
Beryllium	mg/L	ND	0.0030	0.000074	03/27/20 16:03	
Boron	mg/L	ND	0.10	0.0049	03/27/20 16:03	
Cadmium	mg/L	ND	0.0025	0.00011	03/27/20 16:03	
Chromium	mg/L	ND	0.010	0.00039	03/27/20 16:03	
Cobalt	mg/L	ND	0.0050	0.00030	03/27/20 16:03	
Lead	mg/L	ND	0.0050	0.000046	03/27/20 16:03	
Lithium	mg/L	ND	0.030	0.00078	03/27/20 16:03	
Molybdenum	mg/L	ND	0.010	0.00095	03/27/20 16:03	
Selenium	mg/L	ND	0.010	0.0013	03/27/20 16:03	
Thallium	mg/L	ND	0.0010	0.000052	03/27/20 16:03	

LABORATORY CONTROL SAMPLE: 206543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	105	80-120	
Arsenic	mg/L	0.1	0.099	99	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Chromium	mg/L	0.1	0.10	102	80-120	
Cobalt	mg/L	0.1	0.098	98	80-120	
Lead	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	
Thallium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 206544 206545

Parameter	Units	2630320010		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Antimony	mg/L	ND	0.1	0.1	0.1	0.11	0.11	109	112	75-125	3	20		

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Parameter	Units	206544		206545		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result								
Arsenic	mg/L	ND	0.1	0.1	0.10	0.11	102	105	75-125	3	20		
Barium	mg/L	0.041	0.1	0.1	0.14	0.14	103	104	75-125	1	20		
Beryllium	mg/L	0.00083J	0.1	0.1	0.10	0.10	99	100	75-125	1	20		
Boron	mg/L	5.3	1	1	6.5	6.3	117	105	75-125	2	20		
Cadmium	mg/L	0.00013J	0.1	0.1	0.10	0.10	100	103	75-125	3	20		
Chromium	mg/L	0.00040J	0.1	0.1	0.11	0.11	106	109	75-125	3	20		
Cobalt	mg/L	0.0031J	0.1	0.1	0.11	0.11	103	103	75-125	0	20		
Lead	mg/L	ND	0.1	0.1	0.095	0.099	95	99	75-125	3	20		
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	101	103	75-125	2	20		
Molybdenum	mg/L		0.1	0.1	0.10	0.11	103	107	75-125	4	20		
Selenium	mg/L	0.0042J	0.1	0.1	0.11	0.11	103	104	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.097	0.098	97	98	75-125	1	20		

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

QC Batch: 44831	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630255009, 2630320001

LABORATORY CONTROL SAMPLE: 206292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	363	91	84-108	

SAMPLE DUPLICATE: 206293

Parameter	Units	2630255001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	185	199	7	10	

SAMPLE DUPLICATE: 206294

Parameter	Units	2630257006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	141	146	3	10	

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

QC Batch:	44875	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320015, 2630320016, 2630320018, 2630320019

LABORATORY CONTROL SAMPLE: 206450

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	399	100	84-108	

SAMPLE DUPLICATE: 206451

Parameter	Units	2630320006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	57.0	63.0	10	10	

SAMPLE DUPLICATE: 206452

Parameter	Units	2630320004 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	148	122	19	10	D6

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

QC Batch:	44876	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Atlanta, GA

Associated Lab Samples: 2630320012, 2630320013, 2630320014, 2630320017, 2630320020

LABORATORY CONTROL SAMPLE: 206453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	383	96	84-108	

SAMPLE DUPLICATE: 206454

Parameter	Units	2630325012 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	733	756	3	10	

SAMPLE DUPLICATE: 206455

Parameter	Units	2630320014 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	195	196	1	10	

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2

Pace Project No.: 2630320

QC Batch: 532325 Analysis Method: EPA 300.0 Rev 2.1 1993
 QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
 Laboratory: Pace Analytical Services - Asheville
 Associated Lab Samples: 2630255009, 2630320019, 2630320020

METHOD BLANK: 2841784 Matrix: Water
 Associated Lab Samples: 2630255009, 2630320019, 2630320020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/26/20 15:03	
Fluoride	mg/L	ND	0.10	0.050	03/26/20 15:03	
Sulfate	mg/L	ND	1.0	0.50	03/26/20 15:03	

LABORATORY CONTROL SAMPLE: 2841785

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	48.5	97	90-110	
Fluoride	mg/L	2.5	2.4	97	90-110	
Sulfate	mg/L	50	51.0	102	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841786 2841787

Parameter	Units	2630320019		2841786		2841787		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	ND	50	50	50.0	50.9	100	102	90-110	2	10		
Fluoride	mg/L	ND	2.5	2.5	3.2	2.8	129	112	90-110	14	10	M1, R1	
Sulfate	mg/L	ND	50	50	53.4	53.7	107	107	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841788 2841789

Parameter	Units	92470768004		2841788		2841789		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Result	MSD Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	5.0	50	50	54.7	54.8	99	100	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	3.2	3.0	127	119	90-110	6	10	M1	
Sulfate	mg/L	13.7	50	50	64.7	64.5	102	102	90-110	0	10		

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QUALITY CONTROL DATA

Project: PLANT YATES AP-2
Pace Project No.: 2630320

QC Batch: 532327 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018

METHOD BLANK: 2841796 Matrix: Water
Associated Lab Samples: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	03/27/20 07:43	
Fluoride	mg/L	ND	0.10	0.050	03/27/20 07:43	
Sulfate	mg/L	ND	1.0	0.50	03/27/20 07:43	

LABORATORY CONTROL SAMPLE: 2841797

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	50.9	102	90-110	
Fluoride	mg/L	2.5	2.7	109	90-110	
Sulfate	mg/L	50	54.0	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841798 2841799

Parameter	Units	2630325019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.7	2.7	110	109	90-110	0	10	
Sulfate	mg/L	ND	50	50	54.7	54.1	109	108	90-110	1	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2841800 2841801

Parameter	Units	2630320010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	ND	2.5	2.5	2.5	2.6	101	101	90-110	1	10	
Sulfate	mg/L	199	50	50	245	234	92	70	90-110	5	10	M6

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QUALIFIERS

Project: PLANT YATES AP-2

Pace Project No.: 2630320

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.

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.

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

B Analyte was detected in the associated method blank.

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

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

R1 RPD value was outside control limits.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630320001	YGWA-1I				
2630320002	YGWA-1D				
2630320003	YGWA-2I				
2630320004	YGWA-3I				
2630320005	YGWA-3D				
2630320006	YGWA-14S				
2630320007	YGWA-30I				
2630320011	YGWC-26S				
2630320012	YGWC-26I				
2630320013	YGWC-27S				
2630320014	YGWC-27I				
2630320015	YGWC-28S				
2630320016	YGWC-28I				
2630320017	YGWC-29I				
2630255009	DUP-1	EPA 3010A	44881	EPA 6010D	44898
2630320001	YGWA-1I	EPA 3010A	44881	EPA 6010D	44898
2630320002	YGWA-1D	EPA 3010A	44881	EPA 6010D	44898
2630320003	YGWA-2I	EPA 3010A	44881	EPA 6010D	44898
2630320004	YGWA-3I	EPA 3010A	44881	EPA 6010D	44898
2630320005	YGWA-3D	EPA 3010A	44881	EPA 6010D	44898
2630320006	YGWA-14S	EPA 3010A	44881	EPA 6010D	44898
2630320007	YGWA-30I	EPA 3010A	44895	EPA 6010D	44902
2630320008	EB-1-3-19-20	EPA 3010A	44895	EPA 6010D	44902
2630320009	FB-1-3-19-20	EPA 3010A	44895	EPA 6010D	44902
2630320011	YGWC-26S	EPA 3010A	44895	EPA 6010D	44902
2630320012	YGWC-26I	EPA 3010A	44895	EPA 6010D	44902
2630320013	YGWC-27S	EPA 3010A	44895	EPA 6010D	44902
2630320014	YGWC-27I	EPA 3010A	44895	EPA 6010D	44902
2630320015	YGWC-28S	EPA 3010A	44895	EPA 6010D	44902
2630320016	YGWC-28I	EPA 3010A	44895	EPA 6010D	44902
2630320017	YGWC-29I	EPA 3010A	44895	EPA 6010D	44902
2630320018	EB-2-3-19-20	EPA 3010A	44895	EPA 6010D	44902
2630320019	FB-2-3-19-20	EPA 3010A	44895	EPA 6010D	44902
2630320020	DUP-2	EPA 3010A	44895	EPA 6010D	44902
2630255009	DUP-1	EPA 3005A	44893	EPA 6020B	44900
2630320001	YGWA-1I	EPA 3005A	44893	EPA 6020B	44900
2630320002	YGWA-1D	EPA 3005A	44893	EPA 6020B	44900
2630320003	YGWA-2I	EPA 3005A	44893	EPA 6020B	44900
2630320004	YGWA-3I	EPA 3005A	44893	EPA 6020B	44900
2630320005	YGWA-3D	EPA 3005A	44893	EPA 6020B	44900
2630320006	YGWA-14S	EPA 3005A	44893	EPA 6020B	44900
2630320007	YGWA-30I	EPA 3005A	44893	EPA 6020B	44900
2630320008	EB-1-3-19-20	EPA 3005A	44893	EPA 6020B	44900
2630320009	FB-1-3-19-20	EPA 3005A	44894	EPA 6020B	44901
2630320011	YGWC-26S	EPA 3005A	44894	EPA 6020B	44901
2630320012	YGWC-26I	EPA 3005A	44894	EPA 6020B	44901
2630320013	YGWC-27S	EPA 3005A	44894	EPA 6020B	44901

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630320014	YGWC-27I	EPA 3005A	44894	EPA 6020B	44901
2630320015	YGWC-28S	EPA 3005A	44894	EPA 6020B	44901
2630320016	YGWC-28I	EPA 3005A	44894	EPA 6020B	44901
2630320017	YGWC-29I	EPA 3005A	44894	EPA 6020B	44901
2630320018	EB-2-3-19-20	EPA 3005A	44894	EPA 6020B	44901
2630320019	FB-2-3-19-20	EPA 3005A	44894	EPA 6020B	44901
2630320020	DUP-2	EPA 3005A	44894	EPA 6020B	44901
2630255009	DUP-1	SM 2540C	44831		
2630320001	YGWA-1I	SM 2540C	44831		
2630320002	YGWA-1D	SM 2540C	44875		
2630320003	YGWA-2I	SM 2540C	44875		
2630320004	YGWA-3I	SM 2540C	44875		
2630320005	YGWA-3D	SM 2540C	44875		
2630320006	YGWA-14S	SM 2540C	44875		
2630320007	YGWA-30I	SM 2540C	44875		
2630320008	EB-1-3-19-20	SM 2540C	44875		
2630320009	FB-1-3-19-20	SM 2540C	44875		
2630320011	YGWC-26S	SM 2540C	44875		
2630320012	YGWC-26I	SM 2540C	44876		
2630320013	YGWC-27S	SM 2540C	44876		
2630320014	YGWC-27I	SM 2540C	44876		
2630320015	YGWC-28S	SM 2540C	44875		
2630320016	YGWC-28I	SM 2540C	44875		
2630320017	YGWC-29I	SM 2540C	44876		
2630320018	EB-2-3-19-20	SM 2540C	44875		
2630320019	FB-2-3-19-20	SM 2540C	44875		
2630320020	DUP-2	SM 2540C	44876		
2630255009	DUP-1	EPA 300.0 Rev 2.1 1993	532325		
2630320001	YGWA-1I	EPA 300.0 Rev 2.1 1993	532327		
2630320002	YGWA-1D	EPA 300.0 Rev 2.1 1993	532327		
2630320003	YGWA-2I	EPA 300.0 Rev 2.1 1993	532327		
2630320004	YGWA-3I	EPA 300.0 Rev 2.1 1993	532327		
2630320005	YGWA-3D	EPA 300.0 Rev 2.1 1993	532327		
2630320006	YGWA-14S	EPA 300.0 Rev 2.1 1993	532327		
2630320007	YGWA-30I	EPA 300.0 Rev 2.1 1993	532327		
2630320008	EB-1-3-19-20	EPA 300.0 Rev 2.1 1993	532327		
2630320009	FB-1-3-19-20	EPA 300.0 Rev 2.1 1993	532327		
2630320011	YGWC-26S	EPA 300.0 Rev 2.1 1993	532327		
2630320012	YGWC-26I	EPA 300.0 Rev 2.1 1993	532327		
2630320013	YGWC-27S	EPA 300.0 Rev 2.1 1993	532327		
2630320014	YGWC-27I	EPA 300.0 Rev 2.1 1993	532327		
2630320015	YGWC-28S	EPA 300.0 Rev 2.1 1993	532327		
2630320016	YGWC-28I	EPA 300.0 Rev 2.1 1993	532327		
2630320017	YGWC-29I	EPA 300.0 Rev 2.1 1993	532327		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: PLANT YATES AP-2

Pace Project No.: 2630320

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2630320018	EB-2-3-19-20	EPA 300.0 Rev 2.1 1993	532327		
2630320019	FB-2-3-19-20	EPA 300.0 Rev 2.1 1993	532325		
2630320020	DUP-2	EPA 300.0 Rev 2.1 1993	532325		

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CHAIN-OF-CUSTODY / Analytical Request Document

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

Page: 1 of 2

Section A Required Client Information: Company: GA Power Address: Atlanta, GA Phone: SCS Contacts Requested Due Date/AT: 10 Day	Section B Required Project Information: Report To: SCS Contacts Copy To: ACC Contacts Purchase Order No.: Project Name: Plant Yates AP2 Project Number:	Section C Invoice Information: Attention: Southern Co. Company Name: Address: Pace Quote Reference: Pace Project Manager: Pace Profile #: 2916-15	REGULATORY AGENCY NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> Other <input type="checkbox"/> Site Location: GA
---	--	---	---

ITEM #	Section D Required Client Information Valid Matrix Codes DRINKING WATER DW WATER WW WASTE WATER PW PRODUCT SL SOIL/SOLID OL WIFE WF AIR AR OTHER OT TIS TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Preservatives	Analysis Test	Y/N	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)	Pace Project No./ Lab I.D.
				DATE	TIME													
1	Y6WA-1T	WT G	3480	1537														pH= 6.19
2	Y6WA-1D	WT G	3480	1033														pH= 7.03
3	Y6WA-2T	WT G	3480	1237														pH= 7.22
4	Y6WA-3T	WT G	3480	1100														pH= 7.31
5	Y6WA-3D	WT G	3480	1210														pH= 7.65
6	Y6WA-14S	WT G	3180	1550														pH= 5.38
7	Y6WA-30T	WT G	3180	1420														pH= 6.00
8	ER-1-3-19-20	WT G	3190	1315														pH=
9	ER-1-3-19-20	WT G	3190	1515														pH=
10	Dwp-1	WT G	3180	---														pH=

ADDITIONAL COMMENTS Please note dry wells, strikes through any wells not sampled, and note when the test sample for the event has been taken. Metals=B, Ca, Sb, As, Ba, Be, Cd, Cr, Co, Pb, Li, Se, Mo, Tl	REINQUISHED BY / AFFILIATION Ryan Walker AC	DATE 3/20/20	TIME 1410	ACCEPTED BY / AFFILIATION Pace	DATE 3/20/20	TIME 1410	TEMP IN °C 15	SAMPLE CONDITIONS Received on ice (Y/N) Y Custody Sealed Cooler (Y/N) N Samples Intact (Y/N) Y
---	---	------------------------	---------------------	--	------------------------	---------------------	-------------------------	--

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: Ryan Walker

SIGNATURE of SAMPLER:

DATE signed (MM/DD/YYYY):

WO#: 2630320

2630320

Print terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

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



Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page: <u>2</u> of <u>2</u>
--	---	--	-----------------------------------

Company: GA Power Address: Atlanta, GA Phone: Requested Due Date/TAT: 10 Day	Report To: SCS Contacts Copy To: ACC Contacts Purchase Order No.: Plant Yales AP2 Project Name: Project Number:	Attention: Southern Co. Company Name: Address: Pace Guide Reference: Pace Project Manager: Kevin Herring Pace Profile #: 2916-15	REGULATORY AGENCY <input type="checkbox"/> NPDES <input type="checkbox"/> GROUND WATER <input type="checkbox"/> DRINKING WATER <input type="checkbox"/> UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/> Site Location STATE: GA
---	--	---	---

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Requested Analyte Filtered (Y/N)	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)						
				DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl							NaOH	Na ₂ S ₂ O ₃	Methanol	Other	TDS	Chloride/Fluoride/Sulfate 300.0
1	Y6WC-265		WT G	3-19-20	1647		5	2	3					X	X	X									
2	Y6WC-265		WT G	3-20-20	1047		5	2	3					X	X	X									
3	Y6WC-275		WT G	3-20-20	1200		5	2	3					X	X	X									
4	Y6WC-285		WT G	3-19-20	1455		5	2	3					X	X	X									
5	Y6WC-285		WT G	3-19-20	1600		5	2	3					X	X	X									
6	Y6WC-295		WT G	3-20-20	1012		5	2	3					X	X	X									
7	Y6WC-295		WT G	3-19-20	1315		5	2	3					X	X	X									
8	ER-2-3-19-20		WT G	3-19-20	1115		5	2	3					X	X	X									
9	ER-2-3-19-20		WT G	3-19-20	1115		5	2	3					X	X	X									
10	Dup-2		WT G	3-20-20	-		5	2	3					X	X	X									
11																									
12																									

Additional Comments: Please note dry wells, strikes through, any wells not sampled, and note when the last sample for the event has been taken.

Additional Comments: Last Sample at on 3-20-20

REQUISITIONED BY / AFFILIATION Acc 3-20-20 DATE: 1/10 TIME: 10:10	ACCEPTED BY / AFFILIATION Trace DATE: 3/20/20 TIME: 11:09
---	---

SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Dyan Walker SIGNATURE of SAMPLER: Dyan Walker	DATE Signed (MM/DD/YYYY): 3/20/20

Residual Chlorine (Y/N) Pace Project No./ Lab I.D.	pH= 5.46 pH= 5.44 pH= 6.18 pH= 6.32 pH= 6.98 pH= 7.01 pH= 6.17
---	--

MO# : 2630320
 PM: KH
 Due Date: 04/03/20
 CLIENT: 26-GA Power

Sample Condition Upon Receipt

Face Analytical

Client Name: Brewer

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Custody Seal on Cooler/Box Present: yes no

Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other Plastic Bag

Type of Ice: Ice Blue None Other

Thermometer Used: TH8233

Cooler Temperature: 0.1

Temp should be above freezing to 6°C

Chain of Custody Present: Yes No N/A

Chain of Custody Filled Out: Yes No N/A

Chain of Custody Relinquished: Yes No N/A

Sampler Name & Signature on COC: Yes No N/A

Samples Arrived within Hold Time: Yes No N/A

Short Hold Time Analysis (<72hr): Yes No N/A

Rush Turn Around Time Requested: Yes No N/A W Day

Sufficient Volume: Yes No N/A

Correct Containers Used: Yes No N/A

-Pace Containers Used: Yes No N/A

Containers Intact: Yes No N/A

Filtered volume received for Dissolved tests: Yes No N/A

Sample Labels match COC: Yes No N/A

-Includes date/time/ID/Analysis Matrix: Yes No N/A

All containers needing preservation have been checked: Yes No N/A

All containers needing preservation are found to be in compliance with EPA recommendation: Yes No N/A

exceptions: VOA, colform, TOC, O&G, Wf-DRO (water): Yes No N/A

Samples checked for dechlorination: Yes No N/A

Headspace in VOA Vials (>6mm): Yes No N/A

Trip Blank Present: Yes No N/A

Trip Blank Custody Seals Present: Yes No N/A

Pace Trip Blank Lot # (if purchased): _____

1.	Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
2.	Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
3.	Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
4.	Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
5.	Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
6.	Short Hold Time Analysis (<72hr):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
7.	Rush Turn Around Time Requested:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A <u>W Day</u>
8.	Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
9.	Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
10.	-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
11.	Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
12.	Filtered volume received for Dissolved tests:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
13.	Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
14.	-Includes date/time/ID/Analysis Matrix:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
15.	All containers needing preservation have been checked:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
16.	All containers needing preservation are found to be in compliance with EPA recommendation:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
17.	exceptions: VOA, colform, TOC, O&G, Wf-DRO (water):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
18.	Samples checked for dechlorination:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
19.	Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
20.	Trip Blank Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
21.	Trip Blank Custody Seals Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A
22.	Pace Trip Blank Lot # (if purchased):	_____

Comments: _____
 Type of Ice: Ice Blue None Other
 Samples on ice, cooling process has begun _____
 Date and initials of person examining contents: _____

Proj. Name: _____
 Proj. Due Date: _____

Project Manager Review: _____

Date: _____

Client Notification/Resolution: _____
 Person Contacted: _____
 Date/Time: _____
 Comments/Resolution: _____

Field Data Required? Y / N

May 05, 2020

Mr. Joju Abraham
Georgia Power
2480 Maner Road
Atlanta, GA 30339

RE: Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

Dear Mr. Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 24, 2020. 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 - This report replaces the April 13, 2020 report. This project was revised on May 5, 2020 in order to cancel a sample as per client request. (Greensburg, PA)

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

Sincerely,



Jacquelyn Collins
jacquelyn.collins@pacelabs.com
(724)850-5612
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Florida: Cert E871149 SEKS WET

Guam Certification

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2630320001	YGWA-1I	Water	03/18/20 15:37	03/24/20 09:10
2630320002	YGWA-1D	Water	03/19/20 10:33	03/24/20 09:10
2630320003	YGWA-2I	Water	03/19/20 12:37	03/24/20 09:10
2630320004	YGWA-3I	Water	03/19/20 11:00	03/24/20 09:10
2630320005	YGWA-3D	Water	03/19/20 12:10	03/24/20 09:10
2630320006	YGWA-14S	Water	03/18/20 15:50	03/24/20 09:10
2630320007	YGWA-30I	Water	03/19/20 14:20	03/24/20 09:10
2630320008	EB-1-3-19-20	Water	03/19/20 13:15	03/24/20 09:10
2630320009	FB-1-3-19-20	Water	03/19/20 15:15	03/24/20 09:10
2630320011	YGWC-26S	Water	03/19/20 16:47	03/24/20 09:10
2630320012	YGWC-26I	Water	03/20/20 10:47	03/24/20 09:10
2630320013	YGWC-27S	Water	03/20/20 12:00	03/24/20 09:10
2630320014	YGWC-27I	Water	03/20/20 12:05	03/24/20 09:10
2630320015	YGWC-28S	Water	03/19/20 14:55	03/24/20 09:10
2630320016	YGWC-28I	Water	03/19/20 16:00	03/24/20 09:10
2630320017	YGWC-29I	Water	03/20/20 10:12	03/24/20 09:10
2630320018	EB-2-3-19-20	Water	03/19/20 13:15	03/24/20 09:10
2630320019	FB-2-3-19-20	Water	03/19/20 11:15	03/24/20 09:10
2630320020	DUP-2	Water	03/20/20 00:00	03/24/20 09:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630320001	YGWA-1I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320002	YGWA-1D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320003	YGWA-2I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320004	YGWA-3I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320005	YGWA-3D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320006	YGWA-14S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320007	YGWA-30I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320008	EB-1-3-19-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320009	FB-1-3-19-20	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320011	YGWC-26S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320012	YGWC-26I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320013	YGWC-27S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2630320014	YGWC-27I	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2630320015	YGWC-28S	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630320016	YGWC-28I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630320017	YGWC-29I	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630320018	EB-2-3-19-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630320019	FB-2-3-19-20	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
2630320020	DUP-2	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

Sample: YGWA-1I		Lab ID: 2630320001	Collected: 03/18/20 15:37	Received: 03/24/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.458 ± 0.189 (0.249) C:82% T:NA		pCi/L	03/31/20 20:48	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	-0.0547 ± 0.373 (0.880) C:67% T:81%		pCi/L	04/10/20 12:40	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.458 ± 0.562 (1.13)		pCi/L	04/13/20 09:59	7440-14-4	

Sample: YGWA-1D		Lab ID: 2630320002	Collected: 03/19/20 10:33	Received: 03/24/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.806 ± 0.247 (0.246) C:83% T:NA		pCi/L	03/31/20 17:54	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.298 ± 0.337 (0.706) C:69% T:92%		pCi/L	04/10/20 12:40	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	1.10 ± 0.584 (0.952)		pCi/L	04/13/20 09:59	7440-14-4	

Sample: YGWA-2I		Lab ID: 2630320003	Collected: 03/19/20 12:37	Received: 03/24/20 09:10	Matrix: Water		
PWS:		Site ID:	Sample Type:				
Parameters	Method	Act ± Unc (MDC) Carr Trac		Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg							
Radium-226	EPA 9315	0.376 ± 0.212 (0.355) C:72% T:NA		pCi/L	03/31/20 20:48	13982-63-3	
Pace Analytical Services - Greensburg							
Radium-228	EPA 9320	0.339 ± 0.375 (0.786) C:69% T:90%		pCi/L	04/10/20 12:40	15262-20-1	
Pace Analytical Services - Greensburg							
Total Radium	Total Radium Calculation	0.715 ± 0.587 (1.14)		pCi/L	04/13/20 09:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

Sample: YGWA-3I		Lab ID: 2630320004	Collected: 03/19/20 11:00	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.58 ± 0.522 (0.389) C:83% T:NA	pCi/L	04/01/20 08:16	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.620 ± 0.400 (0.763) C:69% T:90%	pCi/L	04/10/20 12:40	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.20 ± 0.922 (1.15)	pCi/L	04/13/20 09:59	7440-14-4	

Sample: YGWA-3D		Lab ID: 2630320005	Collected: 03/19/20 12:10	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	2.10 ± 0.603 (0.282) C:84% T:NA	pCi/L	04/01/20 08:17	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.86 ± 0.608 (0.838) C:69% T:83%	pCi/L	04/10/20 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	3.96 ± 1.21 (1.12)	pCi/L	04/13/20 09:59	7440-14-4	

Sample: YGWA-14S		Lab ID: 2630320006	Collected: 03/18/20 15:50	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.207 ± 0.201 (0.349) C:85% T:NA	pCi/L	04/01/20 08:03	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	-0.0581 ± 0.332 (0.784) C:70% T:91%	pCi/L	04/10/20 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.207 ± 0.533 (1.13)	pCi/L	04/13/20 09:59	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

Sample: YGWA-301		Lab ID: 2630320007	Collected: 03/19/20 14:20	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.328 ± 0.151 (0.193) C:93% T:NA	pCi/L	03/31/20 17:55	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.672 ± 0.399 (0.740) C:67% T:95%	pCi/L	04/10/20 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.000 ± 0.550 (0.933)	pCi/L	04/13/20 09:59	7440-14-4	

Sample: EB-1-3-19-20		Lab ID: 2630320008	Collected: 03/19/20 13:15	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.311 ± 0.236 (0.354) C:86% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.134 ± 0.397 (0.892) C:71% T:68%	pCi/L	04/10/20 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.445 ± 0.633 (1.25)	pCi/L	04/13/20 09:59	7440-14-4	

Sample: FB-1-3-19-20		Lab ID: 2630320009	Collected: 03/19/20 15:15	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.286 ± 0.308 (0.632) C:91% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.251 ± 0.383 (0.827) C:67% T:77%	pCi/L	04/10/20 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.537 ± 0.691 (1.46)	pCi/L	04/13/20 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

Sample: YGWC-26S		Lab ID: 2630320011	Collected: 03/19/20 16:47	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.437 ± 0.346 (0.615) C:68% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.359 ± 0.391 (0.817) C:69% T:80%	pCi/L	04/10/20 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.796 ± 0.737 (1.43)	pCi/L	04/13/20 10:04	7440-14-4	

Sample: YGWC-26I		Lab ID: 2630320012	Collected: 03/20/20 10:47	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.574 ± 0.386 (0.653) C:73% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	1.46 ± 0.534 (0.759) C:68% T:77%	pCi/L	04/10/20 12:41	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	2.03 ± 0.920 (1.41)	pCi/L	04/13/20 10:04	7440-14-4	

Sample: YGWC-27S		Lab ID: 2630320013	Collected: 03/20/20 12:00	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.517 ± 0.309 (0.452) C:88% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.983 ± 0.411 (0.623) C:69% T:82%	pCi/L	04/10/20 12:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.50 ± 0.720 (1.08)	pCi/L	04/13/20 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

Sample: YGWC-271		Lab ID: 2630320014	Collected: 03/20/20 12:05	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	3.48 ± 0.907 (0.698) C:72% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.654 ± 0.397 (0.725) C:67% T:81%	pCi/L	04/10/20 12:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	4.13 ± 1.30 (1.42)	pCi/L	04/13/20 10:04	7440-14-4	

Sample: YGWC-28S		Lab ID: 2630320015	Collected: 03/19/20 14:55	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.331 ± 0.270 (0.478) C:88% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.683 ± 0.380 (0.682) C:70% T:88%	pCi/L	04/10/20 12:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.01 ± 0.650 (1.16)	pCi/L	04/13/20 10:04	7440-14-4	

Sample: YGWC-28I		Lab ID: 2630320016	Collected: 03/19/20 16:00	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.550 ± 0.334 (0.488) C:80% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.363 ± 0.327 (0.660) C:77% T:78%	pCi/L	04/10/20 12:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.913 ± 0.661 (1.15)	pCi/L	04/13/20 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

Sample: YGWC-291		Lab ID: 2630320017	Collected: 03/20/20 10:12	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	1.01 ± 0.451 (0.557) C:82% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.411 ± 0.298 (0.567) C:76% T:83%	pCi/L	04/10/20 12:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.42 ± 0.749 (1.12)	pCi/L	04/13/20 10:04	7440-14-4	

Sample: EB-2-3-19-20		Lab ID: 2630320018	Collected: 03/19/20 13:15	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.520 ± 0.337 (0.498) C:73% T:NA	pCi/L	04/01/20 08:09	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.198 ± 0.300 (0.646) C:74% T:85%	pCi/L	04/10/20 12:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.718 ± 0.637 (1.14)	pCi/L	04/13/20 10:04	7440-14-4	

Sample: FB-2-3-19-20		Lab ID: 2630320019	Collected: 03/19/20 11:15	Received: 03/24/20 09:10	Matrix: Water	
PWS:		Site ID:	Sample Type:			
Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.493 ± 0.330 (0.531) C:79% T:NA	pCi/L	04/01/20 08:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.267 ± 0.338 (0.716) C:77% T:77%	pCi/L	04/10/20 12:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.760 ± 0.668 (1.25)	pCi/L	04/13/20 10:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

Sample: DUP-2 **Lab ID: 2630320020** Collected: 03/20/20 00:00 Received: 03/24/20 09:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.702 ± 0.349 (0.439) C:83% T:NA	pCi/L	04/01/20 08:10	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.572 ± 0.358 (0.668) C:77% T:86%	pCi/L	04/10/20 12:42	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.27 ± 0.707 (1.11)	pCi/L	04/13/20 10:04	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

QC Batch:	390093	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

METHOD BLANK: 1889261 Matrix: Water

Associated Lab Samples: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.212 ± 0.150 (0.261) C:87% T:NA	pCi/L	03/31/20 17:53	

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.

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QUALITY CONTROL - RADIOCHEMISTRY

Project: 2630320 PLANT YATES AP-2

Pace Project No.: 30356152

QC Batch: 390094

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

METHOD BLANK: 1889262

Matrix: Water

Associated Lab Samples: 2630320001, 2630320002, 2630320003, 2630320004, 2630320005, 2630320006, 2630320007, 2630320008, 2630320009, 2630320011, 2630320012, 2630320013, 2630320014, 2630320015, 2630320016, 2630320017, 2630320018, 2630320019, 2630320020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.941 ± 0.434 (0.732) C:71% T:89%	pCi/L	04/10/20 12:40	

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

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QUALIFIERS

Project: 2630320 PLANT YATES AP-2
Pace Project No.: 30356152

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.

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

Act - Activity

Unc - Uncertainty: For Safe Drinking Water Act (SDWA) analyses, the reported Unc. is the calculated Count Uncertainty (95% confidence interval) using a coverage factor of 1.96. For all other matrices (non-SDWA), the reported Unc. is the calculated Expanded Uncertainty (aka Combined Standard Uncertainty, CSU), reported at the 95% confidence interval using a coverage factor of 1.96.

Gamma Spec: The Unc. reported for all gamma-spectroscopy analyses (EPA 901.1), is the calculated Expanded Uncertainty (CSU) at the 95.4% confidence interval, using a coverage factor of 2.0.

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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Chain of Custody

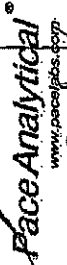
Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: GA
 Cert. Needed: Yes No
 Owner Received Date: 3/20/2020 Results Requested By: 4/3/2020

Workorder: 2630320 Workorder Name: PLANT YATES AP-2

Kevin Herring
 Pace Analytical Charlotte
 9800 Kincey Ave.
 Suite 100
 Huntersville, NC 28078
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 1638 Roseytown Road
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www.paceanalytical.com

WO#: 30356152



30356152

Item	Sample ID	Sample Type	Collect Date/Time	Lab ID	Matrix	HNO3	Preserved Containers	RAD 9315	RAD 9320	LAB USE ONLY
1	YGWA-1I	PS	3/18/2020 15:37	2630320001	Water	✓	✓	X	X	CC1
2	YGWA-1D	PS	3/19/2020 10:33	2630320002	Water	✓	✓	X	X	CC2
3	YGWA-2I	PS	3/19/2020 12:37	2630320003	Water	✓	✓	X	X	CC3
4	YGWA-3I	PS	3/19/2020 11:00	2630320004	Water	✓	✓	X	X	CC4
5	YGWA-3D	PS	3/19/2020 12:10	2630320005	Water	✓	✓	X	X	CC5
6	YGWA-14S	PS	3/18/2020 15:50	2630320006	Water	✓	✓	X	X	CC6
7	YGWA-30I	PS	3/19/2020 14:20	2630320007	Water	✓	✓	X	X	CC7
8	EB-1-3-19-20	PS	3/19/2020 13:15	2630320008	Water	✓	✓	X	X	CC8
9	FB-1-3-19-20	PS	3/19/2020 15:15	2630320009	Water	✓	✓	X	X	CC9
10	DUP-1	PS	3/18/2020 00:00	2630320010	Water	✓	✓	X	X	CC0
11	YGWC-26S	PS	3/19/2020 16:47	2630320011	Water	✓	✓	X	X	CC1
12	YGWC-26I	PS	3/20/2020 10:47	2630320012	Water	✓	✓	X	X	CC2
13	YGWC-27S	PS	3/20/2020 12:00	2630320013	Water	✓	✓	X	X	CC3
14	YGWC-27I	PS	3/20/2020 12:05	2630320014	Water	✓	✓	X	X	CC4
15	YGWC-28S	PS	3/19/2020 14:55	2630320015	Water	✓	✓	X	X	CC5
16	YGWC-28I	PS	3/19/2020 16:00	2630320016	Water	✓	✓	X	X	CC6
17	YGWC-29I	PS	3/20/2020 10:12	2630320017	Water	✓	✓	X	X	CC7
18	EB-2-3-19-20	PS	3/19/2020 13:15	2630320018	Water	✓	✓	X	X	CC8
19	FB-2-3-19-20	PS	3/19/2020 11:15	2630320019	Water	✓	✓	X	X	CC9

Chain of Custody

Samples were sent directly to the Subcontracting Laboratory.

State Of Origin: GA

Cert. Needed: Yes No

Owner Received Date: 3/20/2020

Results Requested By: 4/3/2020

Workorder: 2630320 Workorder Name: PLANT YATES AP-2

Kevin Herring
Pace Analytical Charlotte
9800 Kinsey Ave.
Suite 100
Huntersville, NC 28078
Phone (704)875-9092

Pace Analytical Pittsburgh
1638 Roseytown Road
Suites 2,3, & 4
Greensburg, PA 15601
Phone (724)850-5600



Item	Sample ID	Sample Description	Collection Date/Time	Analysis Date/Time	Preserved Container	Matrix	Volume	Container	Received By	Date/Time	Received By	Date/Time	Received on Ice	Y or N	Y or N	Y or N	Samples Intact	Y or N
20	DUP-2	PS	3/20/2020 00:00	2630320020	Water	12							X	X				
21																		
22																		
23																		
24																		

Transfers	Released By	Date/Time	Received By	Date/Time
1	[Signature]	3/23/2020	[Signature]	3-24-20 9:40
2				
3				

Cooler Temperature on Receipt: 111 °C Custody Seal: Y or N Received on Ice: Y or N Samples Intact: Y or N

***In order to maintain client confidentiality, location/name of the sampling site, sampler's name and signature may not be provided on this COC document. This chain of custody is considered complete as is since this information is available in the owner laboratory.

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace NC

Project # 30356152

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 1657 9507 0841

Label	<u>ML</u>
LIMS Login	<u>ML</u>

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Thermometer Used N/A Type of Ice: Wet Blue None

Cooler Temperature Observed Temp _____ °C Correction Factor: _____ °C Final Temp: _____ °C

Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:
				<u>10DZ191</u>	<u>ML 3-24-20</u>
Chain of Custody Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Filled Out:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Chain of Custody Relinquished:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sample Labels match COC: -Includes date/time/ID Matrix: <u>WT</u>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Short Hold Time Analysis (<72hr remaining):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Rush Turn Around Time Requested:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Sufficient Volume:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Correct Containers Used: -Pace Containers Used:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Containers Intact:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Orthophosphate field filtered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Hex Cr Aqueous sample field filtered	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Organic Samples checked for dechlorination:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Filtered volume received for Dissolved tests All containers have been checked for preservation.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, Non-aqueous matrix				<u>PMZ</u>	
All containers meet method preservation requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>ML</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Trip Blank Present:	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Trip Blank Custody Seals Present	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
Rad Samples Screened < 0.5 mrem/hr	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Initial when completed <u>ML</u>	Date: <u>3-24-20</u>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____ Contacted By: _____

Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

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

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/31/2020
Worklist: 53143
Matrix: DW



Method Blank Assessment	
MB Sample ID	1889261
MB Concentration:	0.212
M/B Counting Uncertainty:	0.146
MB MDC:	0.261
MB Numerical Performance Indicator:	2.84
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS# (Y or N)?		N
	LCS53143	LCS#53143	
Count Date:	4/1/2020		
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/mL):	24.049		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.505		
Target Conc. (pCi/L, g, F):	4.764		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	4.829		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.763		
Numerical Performance Indicator:	0.16		
Percent Recovery:	101.35%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment	
Sample I.D.:	2630320011
Duplicate Sample I.D.:	2630320011DUP
Sample Result (pCi/L, g, F):	0.437
Sample Result Counting Uncertainty (pCi/L, g, F):	0.340
Sample Duplicate Result (pCi/L, g, F):	0.763
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.365
Are sample and/or duplicate results below RL?	See Below ##
Duplicate Numerical Performance Indicator:	-1.262
Duplicate RPD:	54.35%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail
% RPD Limit:	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 Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Result:		
Matrix Spike Result Counting Uncertainty (pCi/L, g, F):		
Sample Matrix Spike Duplicate Result:		
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):		
MS Numerical Performance Indicator:		
MSD Numerical Performance Indicator:		
MS Percent Recovery:		
MSD Percent Recovery:		
MS Status vs Numerical Indicator:		
MSD Status vs Numerical Indicator:		
MS Status vs Recovery:		
MSD Status vs Recovery:		
MS/MSD Upper % Recovery Limits:		
MS/MSD Lower % Recovery Limits:		

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

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

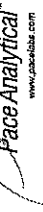
Comments:

~~Matrix must be re-prepped due to unacceptable precision.~~

Lplak
Chp

LAM 4/1/20
Q H 1/20

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 3/31/2020
Worklist: 53143
Matrix: DW

Method Blank Assessment	
MB Sample ID	1869261
MB Concentration:	0.212
MB Counting Uncertainty:	0.146
MB MDC:	0.261
MB Numerical Performance Indicator:	2.84
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCSD (Y or N)?	Y
Count Date:	4/1/2020	LCSD53143	4/1/2020
Spike I.D.:	19-033		19-033
Decay Corrected Spike Concentration (pCi/mL):	24.049		24.049
Volume Used (mL):	0.10		0.10
Aliquot Volume (L, g, F):	0.505		0.516
Target Conc. (pCi/L, g, F):	4.764		4.659
Uncertainty (Calculated):	0.057		0.056
Result (pCi/L, g, F):	4.829		5.369
LCSD/LCSD Counting Uncertainty (pCi/L, g, F):	0.783		0.817
Numerical Performance Indicator:	0.16		1.70
Percent Recovery:	101.35%		115.24%
Status vs Numerical Indicator:	N/A		N/A
Status vs Recovery:	Pass		Pass
Upper % Recovery Limits:	125%		125%
Lower % Recovery Limits:	75%		75%

Duplicate Sample Assessment		LCSD (Y or N)?	Y
Sample I.D.:	LCS53143		
Duplicate Sample I.D.:	LCS53143		
Sample Result (pCi/L, g, F):	4.829		
Sample Duplicate Result (pCi/L, g, F):	0.783		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	5.369		
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.817		
Are sample and/or duplicate results below RL?	NO		
Duplicate Numerical Performance Indicator:	-0.937		
Duplicate (Based on the LCSD/LCSD Percent Recoveries) Duplicate RPD:	12.83%		
Duplicate Status vs Numerical Indicator:	N/A		
Duplicate Status vs RPD:	Pass		
% RPD Limit:	25%		

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

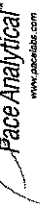
Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. Sample Matrix Spike Result: Matrix Spike Result Counting Uncertainty (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F): Duplicate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

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

Comments:

Handwritten signature and date: *LAL* 4/1/20

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 3/31/2020
Worklist: 53144
Matrix: WT

Method Blank Assessment	
MB Sample ID	1889262
MB concentration:	0.941
M/B 2 Sigma CSU:	0.434
MB MDC:	0.732
MB Numerical Performance Indicator:	4.26
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	See Comment*

Laboratory Control Sample Assessment		Y
LCS#	(Y or N)?	
LCS53144	4/10/2020	LCS53144
Count Date:	4/10/2020	4/10/2020
Spike I.D.:	19-057	19-057
Decay Corrected Spike Concentration (pCi/mL):	34.539	34.538
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.804	0.821
Target Conc. (pCi/L, g, F):	4.295	4.209
Uncertainty (Calculated):	0.309	0.303
Result (pCi/L, g, F):	3.893	5.180
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.908	1.136
Numerical Performance Indicator:	-0.82	1.62
Percent Recovery:	90.65%	123.05%
Status vs Numerical Indicator:	N/A	N/A
Upper % Recovery Limits:	Pass	Pass
Lower % Recovery Limits:	135%	135%
	60%	60%

Duplicate Sample Assessment	
LCS53144	LCS53144
Sample I.D.:	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Duplicate Sample I.D.:	
Sample Result (pCi/L, g, F):	3.893
Sample Duplicate Result (pCi/L, g, F):	0.908
Sample Result 2 Sigma CSU (pCi/L, g, F):	5.180
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.136
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.733
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	30.32%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	36%

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

Comments:
*The method blank result is below the reporting limit for this analysis and is acceptable.

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

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

See 413/20

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Yates Ash Pond-2

March 2020

Georgia Power Company – Plant Yates Ash Pond-2

Quality Control Review of Analytical Data – March 2020

This narrative presents results of the Quality Control (QC) data review performed on analytical data submitted by Pace Analytical Services, Atlanta, Asheville, and Pittsburgh for groundwater samples collected at Plant Yates AP-2 between March 18, 2020 and March 20, 2020. The chemical data were reviewed to identify quality issues which could affect the use of the data for decision-making purposes.

Information regarding the primary sample locations, analytical parameters, QC samples, sampling dates, and laboratory sample delivery group (SDG) designations is summarized in Table 1 of this Appendix. SDG 2630320 was revised by the laboratory to correct the DUP-1 sample data that were switched with SDG 2630255 Gypsum Storage.

In accordance with groundwater monitoring and corrective action procedures discussed in Title 40 CFR, Subpart D – Standards for the Disposal of Coal Combustion Residuals in Landfills and Surface Impoundments, the samples were analyzed for detected monitoring constituents listed in 40 CFR, Part 257, Appendix III and assessment monitoring constituents listed in 40 CFR, Part 257, Appendix IV. Test methods included Inductively Coupled Plasma (USEAP 6010D), Inductively Coupled Plasma – Mass Spectrometry (USEPA Method 6020B), Determination of Inorganic Anions (USEPA Method 300.0), Solids in Water (Standard Methods 2540C), Radium-226 (USEPA 9315), and Radium-228 (USEPA Method 9320).

Data were reviewed in accordance with the US EPA 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. 2.0)¹ and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017)². The review included an assessment of the results for completeness, precision (laboratory duplicate recoveries and matrix spike/matrix spike duplicate recoveries), accuracy (laboratory control samples and matrix spike samples), and blank contamination (field, equipment, and laboratory blanks). Sample receipt conditions, holding times, and COCs were reviewed. Where there was a discrepancy between the QC criteria in the guidelines and the QC criterion established in the analytical methodology, method-specific criteria or professional judgment were used.

DATA QUALITY OBJECTIVES

- Laboratory Precision:** Laboratory goals for precision were met, with the exception of Radium-226 on YGWC-26S (2630320011) as described in the qualifications section below.
- Field Precision:** Field goals for precision were met, with the exceptions of Boron and Total Dissolved Solids (TDS) on YGWA-14S (2630320006) and DUP-1 (2630255009) as described in the qualifications section below.
- Accuracy:** Laboratory goals for accuracy were met.
- Detection Limits:** Project goals for detection limits were met.
- Completeness:** There were no rejected analytical results for this event, resulting in a completion of 100%.
- Holding Times:** Holding time requirements were met.

QUALIFICATIONS

In general, chemical results for the samples collected at the site were qualified on the basis of low precision or low accuracy or on the basis of professional judgment. The following definitions provide brief explanations of the qualifiers which may have been assigned to data by the laboratory during the validation process:

- J:** The analyte was positively identified above the method detection limit; however, the associated numerical value is the approximate concentration of the analyte in the sample
- ND:** The analyte was not detected above the method detection limit

The data generated as part of this sampling event met the QC criteria established in the respective analytical methods and data validation guidelines except as specified below. The applied qualifications may not have been required for all samples collected at the site. A summary of sample qualifications can be found in Table 2 of this Appendix.

- Samples YGWA-14S (2630320006) and DUP-1 (2630255009) were qualified as estimated (J) for Boron and TDS as the respective field relative percent differences (RPDs) exceeded QC criteria (49.06% and 30.30% above limit of 25).

- Sample YGWC-26S (2630320011) was qualified as estimated (J) for Radium-226 as the laboratory RPD exceeded QC criteria (54.35% above limit of 25).
- Certain antimony results in SDG 2630320 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the method detection limit (MDL) was raised to the sample result as part of the qualification process.
- Certain radium results in SDG 2630320 were qualified as non-detect (ND) due to the analyte being detected at a similar concentration in an associated blank sample. As shown in Table 2, the minimum detectable concentration (MDC) was raised to the sample result as part of the qualification process.

Atlantic Coast Consulting, Inc. reviewed the laboratory data from the Plant Yates Ash Pond-2 sampled between March 18, 2020 and March 20, 2020 in accordance with the analytical methods, the laboratory-specified QC criteria, and the guidelines. As described above, the results were acceptable for project use.

REFERENCES

¹USEPA, September 2011, Region 4, Science and Ecosystem Support Division, Quality Assurance Section, MTSB, Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma – Atomic Emission Spectroscopy and Inductively Coupled Plasma – Mass Spectroscopy, Revision 2.0

²USEPA, January 2017, National Office of Superfund Remediation and Technology Innovation, National Functional Guidelines for Inorganic Superfund Methods Data Review, Revision 0.0

TABLE 1

Georgia Power Company – Plant Yates Ash Pond-2

Sample Summary Table – March 2020

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6010D, 6020B)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
30320	YGWA-1I	3/18/2020	2630320001	GW		X	X	X	X
30320	YGWA-1D	3/19/2020	2630320002	GW		X	X	X	X
30320	YGWA-2I	3/19/2020	2630320003	GW		X	X	X	X
30320	YGWA-3I	3/19/2020	2630320004	GW		X	X	X	X
30320	YGWA-3D	3/19/2020	2630320005	GW		X	X	X	X
30320	YGWA-14S	3/18/2020	2630320006	GW		X	X	X	X
30320	YGWA-30I	3/19/2020	2630320007	GW		X	X	X	X
30320	EB-1-3-19-20	3/19/2020	2630320008	WQ	EB	X	X	X	X
30320	FB-1-3-19-20	3/19/2020	2630320009	WQ	FB	X	X	X	X
30255	DUP-1	3/18/2020	2630255009	GW	FD (YGWA-14S)	X	X	X	
30320	DUP-1	3/18/2020	2630320010	GW	FD (YGWA-14S)				X
30320	YGWC-26S	3/19/2020	2630320011	GW		X	X	X	X
30320	YGWC-26I	3/20/2020	2630320012	GW		X	X	X	X
30320	YGWC-27S	3/20/2020	2630320013	GW		X	X	X	X
30320	YGWC-27I	3/20/2020	2630320014	GW		X	X	X	X
30320	YGWC-28S	3/19/2020	2630320015	GW		X	X	X	X
30320	YGWC-28I	3/19/2020	2630320016	GW		X	X	X	X
30320	YGWC-29I	3/20/2020	2630320017	GW		X	X	X	X
30320	EB-2-3-19-20	3/19/2020	2630320018	WQ	EB	X	X	X	X
30320	FB-2-3-19-20	3/19/2020	2630320019	WQ	FB	X	X	X	X
30320	DUP-2	3/20/2020	2630320020	GW	FD (YGWC-26I)	X	X	X	X

Abbreviations:
 EB – Equipment Blank
 FB – Field Blank
 FD – Field Duplicate
 GW – Groundwater
 QC – Quality Control
 TDS – Total Dissolved Solids
 WQ – Water Quality Control

TABLE 2

Georgia Power Company – Plant Yates Ash Pond-2

Qualifier Summary Table – March 2020

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
30320	YGWA-14S	Boron			J	RPD exceeds field goal
30255	DUP-1	Boron			J	RPD exceeds field goal
30320	YGWA-14S	TDS			J	RPD exceeds field goal
30255	DUP-1	TDS			J	RPD exceeds field goal
30320	YGWA-1I	Antimony		0.0004	ND	Blank detection
30320	YGWA-2I	Antimony		0.0003	ND	Blank detection
30320	YGWA-3D	Antimony		0.00064	ND	Blank detection
30320	YGWC-26S	Antimony		0.0017	ND	Blank detection
30320	YGWC-26I	Antimony		0.00059	ND	Blank detection
30320	YGWC-27S	Antimony		0.0003	ND	Blank detection
30320	YGWC-27I	Antimony		0.00033	ND	Blank detection
30320	YGWA-1I	Radium-228		0.880	ND	Blank detection
30320	YGWA-2I	Radium-226		0.355	ND	Blank detection
30320	YGWA-2I	Radium-228		0.786	ND	Blank detection
30320	YGWA-3I	Radium-226		0.389	ND	Blank detection
30320	YGWA-3I	Radium-228		0.763	ND	Blank detection
30320	YGWA-3D	Radium-226		0.282	ND	Blank detection
30320	YGWA-3D	Radium-228		0.838	ND	Blank detection
30320	YGWA-14S	Radium-226		0.349	ND	Blank detection
30320	YGWA-14S	Radium-228		0.784	ND	Blank detection
30320	YGWA-30I	Radium-228		0.740	ND	Blank detection
30320	YGWC-26S	Radium-226		0.615	ND	Blank detection
30320	YGWC-26S	Radium-228		0.817	ND	Blank detection
30320	YGWC-26I	Radium-226		0.653	ND	Blank detection
30320	YGWC-26I	Radium-228		0.759	ND	Blank detection
30320	YGWC-27S	Radium-226		0.452	ND	Blank detection
30320	YGWC-27I	Radium-226		0.698	ND	Blank detection
30320	YGWC-28S	Radium-226		0.478	ND	Blank detection
30320	YGWC-28I	Radium-226		0.488	ND	Blank detection
30320	YGWC-29I	Radium-226		0.557	ND	Blank detection
30320	YGWC-26S	Radium-226			J	RPD exceeds laboratory goal

Abbreviations:

MDC – Minimum Detectable Concentration
MS/MSD – Matrix Spike / Matrix Spike Duplicate
MDL – Method Detection Limit
RL – Reporting Limit
RPD – Relative Percent Difference
SDG – Sample Delivery Group
TDS – Total Dissolved Solids

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

September 2020

Semiannual Event

Georgia Power Co. – Plant Yates

DATA REVIEW

Metals, Radium, and General Chemistry Analyses

SDGs #92497111 and 92497149

Analyses Performed By:

Pace Analytical Services – Asheville, North Carolina


Pace Analytical Services – Peachtree Corners, Georgia

Pace Analytical Services – Greensburg, Pennsylvania

Report #39331R

Review Level: Tier II

Project: 30052923.00004



DATA REVIEW REPORT

SUMMARY

This data quality assessment summarizes the review of Sample Delivery Groups (SDGs) #92497111 and 92497149 for samples collected in association with the Georgia Power Company – Plant Yates. The review was conducted as a Tier II evaluation and included review of data package completeness. Only analytical data associated with constituents of concern were reviewed for this validation. Field documentation was not included in this review. Included with this assessment are the chain of custody form and a table summarizing the data validation qualifiers. Analyses were performed on the following samples:

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
92497111 92497149	YGWA-1I (092320)	92497111001 92497149001	Water	9/23/2020		X	X	X
	YGWA-1D (092320)	92497111002 92497149002	Water	9/23/2020		X	X	X
	YGWA-2I (092320)	92497111003 92497149003	Water	9/23/2020		X	X	X
	YGWA-3I (092320)	92497111004 92497149004	Water	9/23/2020		X	X	X
	YGWA-3D (092320)	92497111005 92497149005	Water	9/23/2020		X	X	X
	YGWA-30I (092420)	92497111006 92497149006	Water	9/24/2020		X	X	X
	YGWC-26S (092420)	92497111007 92497149007	Water	9/24/2020		X	X	X
	YGWC-26I (092420)	92497111008 92497149008	Water	9/24/2020		X	X	X
	DUP-02 (092420)	92497111009 92497149009	Water	9/24/2020	YGWC-26I (092420)	X	X	X
	YGWC-27S (092420)	92497111010 92497149010	Water	9/24/2020		X	X	X
	YGWC-27I (092420)	92497111011 92497149011	Water	9/24/2020		X	X	X
	FB-01 (092420)	92497111012 92497149012	Water	9/24/2020		X	X	X
	EB-01 (092520)	92497111013 92497149013	Water	9/24/2020		X	X	X
YGWC-28S (092420)	92497111014 92497149014	Water	9/24/2020		X	X	X	

DATA REVIEW REPORT

SDG	Sample ID	Lab ID	Matrix	Sample Collection Date	Parent Sample	Analysis		
						RAD	MET	GEN CHEM
	YGWC-28I (092420)	92497111015 92497149015	Water	9/24/2020		X	X	X
	YGWC-29I (092420)	92497111016 92497149016	Water	9/24/2020		X	X	X
	EB-02 (092520)	92497111017 92497149017	Water	9/25/2020		X	X	X
	YGWA-14S (092520)	92497111018 92497149018	Water	9/25/2020		X	X	X
	DUP-01 (092520)	92497111019 92497149019	Water	9/25/2020	YGWA-14S (092520)	X	X	X
	FB-02 (092520)	92497111020 92497149020	Water	9/25/2020		X	X	X

Notes:

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

DATA REVIEW REPORT

ANALYTICAL DATA PACKAGE DOCUMENTATION

The table below is the evaluation of the data package completeness.

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

Note:

QA - Quality Assurance

DATA REVIEW REPORT

INORGANIC ANALYSIS INTRODUCTION

Analyses were performed according to United States Environmental Protection Agency (USEPA) SW-846 Methods 6010D, 6020B, 9315, and 9320; Standard Method (SM) SM4500-H+ B and SM2540C; and USEPA Method 300.0. Data were reviewed in accordance with USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Inorganic Data by Inductively Coupled Plasma–Atomic Emission Spectroscopy and Inductively Coupled Plasma–Mass Spectroscopy (September 2011, Rev. 2), USEPA Region IV Data Validation Standard Operating Procedures for Contract Laboratory Program Mercury Data by Cold Vapor Atomic Absorption (September 2011, Rev. 2), and the National Functional Guidelines for Inorganic Superfund Methods Data Review (January 2017).

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

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

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

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

DATA REVIEW REPORT

METALS ANALYSES

1. Holding Times

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

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

Note:

s.u. = Standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

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

Sample Locations	Analytes	Sample Result	Qualification
YGWA-3I (092320) YGWA-3D (092320) YGWA-30I (092420) YGWA-14S (092520) DUP-01 (092520)	Boron (EB, FB)		
YGWA-1I (092320) YGWA-2I (092320) YGWA-3I (092320) YGWC-26S (092420) YGWC-27S (092420) YGWC-28S (092420) YGWC-29I (092420)	Lead (EB, FB)	Detected sample results <RL and <BAL	"UB" at the RL

Note:

EB Equipment blank
FB Field blank
RL Reporting limit

DATA REVIEW REPORT

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

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

3.1 MS/MSD Analysis

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

The MS/MSD analysis performed using sample YGWA-1I (092320) in association with SW-846 6010D analysis exhibited recoveries within the control limits.

The MS/MSD analysis performed using sample YGWC-27S (092420) in association with SW-846 6010D analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

The MS/MSD analysis performed using samples YGWA-3I (092320) and YGWC-28I (092420) in association with SW-846 6020B 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 using sample YGWA-1I (092320) in association with SW-846 6010D analysis in replacement of laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable an RPD.

MS/MSD analysis was performed using sample YGWC-27S (092420) in association with SW-846 6010D analysis in replacement of laboratory duplicate analysis. The concentration of calcium in the unspiked sample was greater than four-times the amount of spike added; hence the recoveries were not evaluated, and no qualification of the results was required.

MS/MSD analysis was performed using samples YGWA-3I (092320) and YGWC-28I (092420) in association with SW-846 6020B analysis in replacement of laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

DATA REVIEW REPORT

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWA-14S (092520) / DUP-01 (092520)	Calcium	1.3	1.2	AC
	Barium	0.0073 J	0.0074 J	
	Beryllium	0.00018 J	0.00019 J	
	Selenium	0.010 U	0.0025 J	
YGWC-26I (092420) / DUP-02 (092420)	Calcium	16.9	16.7	1.2%
	Barium	0.058	0.057	1.7%
	Boron	0.76	0.77	1.3%
	Chromium	0.00067 J	0.00072 J	AC
	Lithium	0.0074 J	0.0075 J	
	Selenium	0.0031 J	0.0031 J	

Notes:

AC = Acceptable

The differences in the results between the parent sample YGWA-14S (092520) and field duplicate sample DUP-01 (092520) were acceptable.

The differences in the results between the parent sample YGWC-26I (092420) and field duplicate sample DUP-02 (092420) were acceptable.

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR METALS

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

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

GENERAL CHEMISTRY ANALYSES

1. Holding Times

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

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

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

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

TDS was detected in the associated method blank (batch 569431); 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 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 FB-01 (092420) and EB-01 (092520) in association with chloride, fluoride, and sulfate analysis exhibited recoveries within the control limits.

DATA REVIEW REPORT

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 analyses performed on sample locations YGWA-1D (092320), YGWA-3D (092320), and EB-01 (092520) in association with TDS analysis exhibited RPDs within the control limit.

MS/MSD analysis was performed using samples FB-01 (092420) and EB-01 (092520) in association with SW-846 6020B analysis in replacement of laboratory duplicate analysis. The MS/MSD recoveries exhibited acceptable RPDs.

4. Field Duplicate Analysis

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

Results for duplicate samples are summarized in the following table.

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWA-14S (092520) / DUP-01 (092520)	TDS	54.0	49.0	AC
	Fluoride	0.10 U	0.10 U	
	Chloride	5.3	5.2	1.9%
	Sulfate	6.1	6.1	0.0%
YGWC-26I (092420) / DUP-02 (092420)	Fluoride	0.053 J	0.051 J	AC
	TDS	212	217	2.3%
	Chloride	17.1	17.1	0.0%
	Sulfate	85.6	85.5	0.1%

Notes:

AC = Acceptable

The differences in the results between the parent sample YGWA-14S (092520) and field duplicate sample DUP-01 (092520) were acceptable.

The differences in the results between the parent sample YGWC-26I (092420) and field duplicate sample DUP-02 (092420) were acceptable.

DATA REVIEW REPORT

5. Laboratory Control Sample (LCS) Analysis

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

The LCS analysis exhibited recoveries within the control limits.

6. System Performance and Overall Assessment

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

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR GENERAL CHEMISTRY

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

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

RADIOLOGICAL ANALYSES

1. Holding Times

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

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

Note:

s.u. = Standard units

All samples were analyzed within the specified holding times.

2. Blank Contamination

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

Blank results should be verified to be accurately reported and that tolerance limits (+/- 2 sigma or standard deviation) were not exceeded; and blank results verified to be less than the reporting limit (RL) of 1 pCi/L.

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

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

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

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

Where:

U_{Sample} = uncertainty of the sample

U_{Blank} = uncertainty of the blank

Sample = concentration of isotope in sample

Blank = concentration of isotope in blank

DATA REVIEW REPORT

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

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

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

3. Matrix Spike (MS)/Laboratory Duplicate Analysis

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

3.1 MS Analysis

MS samples are not typically analyzed for gamma spectral content due to the inability of the laboratory to homogenize spike material with the sample.

If performed, the spike analysis must exhibit a percent recovery within the control limits of 70% to 130%. The MS recovery control limits do not apply for MS performed on sample locations where the analyte's concentration detected in the parent sample exceeds the MS concentration by a factor of four or greater. In instance where this is true, the data will not be qualified even if the percent recovery does not meet the control limits.

In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of < +/- 3 sigma for either.

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

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

Where:

x = measured concentration of the spiked sample.

x₀ = measured concentration of the unspiked sample.

c = spike concentration added.

u²(x), u²(x₀), u²(c) = the squares of the respective standard uncertainties of these values.

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

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

DATA REVIEW REPORT

3.2 Laboratory Duplicate Analysis

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

The numerical performance indicator for laboratory duplicates is calculated by:

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

Where:

x_1, x_2 = two measured activity concentrations.

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

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

Laboratory duplicate analysis was performed using sample EB-02 (092520) in association with SW-846 9315 analysis. Since the activities were less than the MDC in the parent sample and laboratory duplicate sample, the evaluation of the laboratory duplicate samples is not applicable.

4. Field Duplicate Analysis

The field duplicate sample analysis is used to assess the overall precision of the field sampling procedures and analytical method. For results greater than five times the MDC, a control limit of 35 percent for water matrices is applied to the RPD between the parent and field duplicate sample results. If the parent and field duplicate sample results are less than five times the MDC, for water matrices a control limit of two times the MDC is applied to the difference between the results.

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

Sample ID/Duplicate ID	Analyte	Sample Result	Duplicate Result	RPD
YGWA-14S (092520) / DUP-01 (092520)	Radium-226	0.403 ± 0.286	0.0177 ± 0.147	AC
	Radium-228	0.200 ± 0.577	0.759 ± 0.747	
	Total Radium	0.603 ± 0.863	0.777 ± 0.894	
YGWC-26I (092420) / DUP-02 (092420)	Radium-226	0.350 ± 0.271	0.0988 ± 0.264	AC
	Radium-228	1.12 ± 0.610	0.219 ± 0.382	
	Total Radium	1.47 ± 0.881	0.318 ± 0.646	

Notes:

AC = Acceptable

The differences in the results between the parent sample YGWA-14S (092520) and field duplicate sample DUP-01 (092520) were acceptable.

DATA REVIEW REPORT

The differences in the results between the parent sample YGWC-26I (092420) and field duplicate sample DUP-02 (092420) were acceptable.

5. Tracer or Carrier

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

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

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

The LCS/LCSD analysis is used to assess the precision and accuracy of the analytical method independent of matrix interferences. The analytes associated with the LCS/LCSD analysis must exhibit a percent recovery between the control limits of 60% to 135%. In the event the recovery is outside of this limit, a numerical indicator to make assessments is calculated, with a limit of +/- 3 sigma.

The numerical performance indicator for a laboratory control sample is calculated

by:

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

Where:

x = Analytical result of the LCS

c = Known concentration of the LCS

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

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

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

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

7. Isotope Identification

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

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

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

- YGWA-1I (092320), YGWA-1D (092320), YGWA-2I (092320), YGWA-30I (092420), DUP-02 (092420), FB-01 (092420), EB-01 (092520), YGWC-28I (092420), EB-02 (092520), YGWA-14S (092520), DUP-01 (092520), and FB-02 (092520) – Radium-226, Radium-228, and total Radium

DATA REVIEW REPORT

- YGWA-3I (092320), YGWC-28S (092420), and YGWC-29I (092420) – Radium-228 and total Radium
- YGWC-26S (092420) and YGWC-26I (092420) – Radium-226 and total Radium
- YGWC-27S (092420) – Radium-226

8. System Performance and Overall Assessment

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

DATA REVIEW REPORT

DATA VALIDATION CHECKLIST FOR RADIOLOGICALS

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

Notes:

%R Percent recovery

RPD Relative percent difference

DATA REVIEW REPORT

VALIDATION PERFORMED BY: Jennifer Singer

SIGNATURE:



DATE: December 10, 2020

PEER REVIEW: Dennis Capria

DATE: December 11, 2020

CHAIN OF CUSTODY / DATA QUALIFIER SUMMARY TABLE





CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A Required Client Information:	Section B Required Project Information:	Section C Invoice Information:	Page : 1 Of : 1
Company: Georgia Power	Report To: Becky Stever	Attention:	Regulatory Agency
Address: 1070 Bridge Mill Ave Kennesaw, GA 30114	Copy To:	Company Name:	
Phone: (770) 384-6526 Fax:	Purchase Order #:	Address:	State / Location
Requested Due Date:	Project Name: Yates AP-2	Price Quote:	
	Project #:	Price Project Manager: kevin.herring@paceanaly.com	GA
		Price Profile #: 10840	

ITEM #	MATRIX: Drinking Water Waste Water Product Soil/Sediment Oil Wipes Air Other Tissue	CODES: DWC WTD WWD PD SLC WPC ARD OTC TS	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives											Y/N	Analysis Test	Requested Analyte Filtered (Y/N)	Residual Chlorine (Y/N)																	
					DATE	TIME	DATE	TIME			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other	TDS	Antions	App III & IV Metals					RAD-98198200																
																											START	END														
																											START	END														
1	DUP		WT																																							
2	FIELD SWAB		WT																																							
3	EQUIPMENT SWAB		WT																																							
4	YGWA-11 (092320)		WT		9/23	0950				5	X	X																													PH 6.01	
5	YGWA-1D (092320)		WT		9/23	1045				5	X	X																												PH 7.15		
6	YGWA-21 (092320)		WT		9/23	1245				5	X	X																												PH 7.22		
7	YGWA-31 (092320)		WT		9/23	1445				5	X	X																												PH 7.37		
8	YGWA-3D		WT								X	X																														
9	YGWA-1AS		WT								X	X																														
10	YGWA-2A		WT								X	X																														
11	YGWA-2BS		WT								X	X																														
12	YGWA-2B		WT								X	X																														
ADDITIONAL COMMENTS			RELINQUISHED BY / AFFILIATION			DATE TIME		ACCEPTED BY / AFFILIATION			DATE TIME		SAMPLE CONDITIONS																													
			BBS / Analysis			9/23/20 1545		[Signature]			9/23/20 1545																															
			[Signature]			9/23/20 1740		Charles [Signature]			9/23/20 1740																															

SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Becky Stever SIGNATURE of SAMPLER: [Signature]	DATE Signed: 9/23/20	TEMP In C Received on Ice? (Y/N) Cooled? (Y/N) Sealed? (Y/N) Samples Intact? (Y/N)
--	-------------------------	---



CHAIN-OF-CUSTODY / Analytical Request Document

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Section A
Required Client Information:

Section B
Required Project Information:

Section C
Invoice Information:

Company: Georgia Power	Report To: Becky Steever	Attention:	Regulatory Agency:	
Address: 1070 Bridge Mill Ave Atlanta, GA 30114	Copy To:	Company Name:		State / Location:
Contact: (770)384-8526 Fax	Purchase Order #:	Address:		
Requested Due Date:	Project Name: Yates AP-2	Pace Quote:		
	Project #:	Pace Project Manager: kevin.herring@pacelabs.com	Requested Analyte Filtered (Y/N)	
		Pace Profile #: 10840	GA	

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9, -) Sample IDs must be unique	MATRIX CODES (see valid codes to left)		COLLECTED				SAMPLE TEMP AT COLLECTION	PRESERVATIVES								ANALYTES TESTED (Y/N)	Residual Chlorine (Y/N)		
		MATRIX CODE	CODED	START DATE	START TIME	END DATE	END TIME		UNPRESERVED	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				
		DATE	TIME	DATE	TIME	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS													
1	YGWA-3D (092320)	W	G	9/13	1535			5	X										X	
2	YGWA-30I (092420)			9/24	1045			5	X										X	
3	YGWC-26S (092420)			9/27	1005			5	X										X	
4	YGWC-26I (092420)			9/28	1530			5	X										X	
5	DUR-02 (092420)			9/28	-			5	X										X	
6	YGWC-27S (092420)			9/24	1005			5	X										X	
7	YGWC-27I (092420)			9/24	1045			5	X										X	
8	FB-01 (092420)			9/24	1000			5	X										X	
9	EB-01 (092520)			9/15	1712			5	X										X	

ADDITIONAL COMMENTS	RECEIVED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
Page 2 of 2 To Kevin #	Becky Steever	9/15	1620	Kyle	9/25/20	1620	
		9/25/20	1803	Becky Steever	9/25/20	1803	

SAMPLER NAME AND SIGNATURE: <i>Becky Steever</i>		DATE SIGNED: 09/25/20
PRINT Name of SAMPLER: Becky Steever		

TEMP in C	Received on	Isolob	Sealed	Cooled	Samples Intact
	(Y/N)	(Y/N)	(Y/N)	(Y/N)	(Y/N)



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:
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Address: 1070 Bridge Mill Ave Lawton, GA 30114	Copy To:	Company Name:
Phone: (770)384-6526 Fax:	Purchase Order #:	Address:
Requested Due Date:	Project Name: Yates AP-2	Pace Quote:
	Project #:	Pace Project Manager: kevin.herring@pacetabs.com
		Pace Profile #: 10840

Regulatory Agency
State / Location
GA

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / , -) Sample Ids must be unique	MATRIX CODE	CODED	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED				SAMPLE TEMP AT COLLECTION	Preservatives								Analyzed Test (Y/N)	Requested Analysis Filtered (Y/N)	Residual Chlorine (Y/N)																	
						START		END			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol	Other				TDS	Anions	App III & IV Metals	RAD 8315/8320													
						DATE	TIME	DATE	TIME																													
13	YGWC-280	WT	G																																			
14	YGWC-281	WT	G																																			
15	YGWC-28S (09242020)	WT	G			4/24/20	14:30		5	/	/																											
16	YGWC-28I (09242020)	WT	G			4/24/20	15:39		5	/	/																											
17	YGWC-29I (09242020)	WT	G			4/24/20	16:37		5	/	/																											
18	EB-02 (09252020)	WT	G			4/25/20	2:00		5	/	/																											
19		WT																																				
20	YGWA-14S (09252020)					4/25/20	14:45		5	/	/																											
21	DUP-01 (09252020)					4/25/20	-		5	/	/																											
22																																						
23																																						
24																																						

12/16/14

pH: 6.53 014
pH: 6.41 015
pH: 6.20 016
017
pH: 5.44 018
019
EB-020

ADDITIONAL COMMENTS	RELINQUISHED BY (AFFILIATION)	DATE	TIME	ACCEPTED BY (AFFILIATION)	DATE	TIME	SAMPLE CONDITIONS
	<i>[Signature]</i>	4/25/20	1803	<i>Charles F...</i>	9/25/20	1803	

SAMPLER NAME AND SIGNATURE		TEMP IN C	Received on (date) (Y/N)	Custody Seal/CB (Y/N)	Cooler/C (Y/N)	Samples Intact (Y/N)
PRINT Name of SAMPLER: Katie Rukiewicz	SIGNATURE of SAMPLER: <i>[Signature]</i>					
DATE Signed: 4/25/2020						

SDG	Sample ID	Method	Analyte	Result	Units	Validation Qualifier	Reason for Validation Qualifier
92497111	No qualifiers assigned						
92497149	YGWA-1I (092320)	SW846 6020	Lead	0.0050	mg/L	UB	Blank contamination
	YGWA-2I (092320)	SW846 6020	Lead	0.0050	mg/L	UB	Blank contamination
	YGWA-3I (092320)	SW846 6020	Boron	0.10	mg/L	UB	Blank contamination
			Lead	0.0050	mg/L	UB	Blank contamination
	YGWA-3D (092320)	SW846 6020	Boron	0.10	mg/L	UB	Blank contamination
	YGWA-30I (092420)	SW846 6020	Boron	0.10	mg/L	UB	Blank contamination
	YGWC-26S (092420)	SW846 6020	Lead	0.0050	mg/L	UB	Blank contamination
	YGWC-27S (092420)	SW846 6020	Lead	0.0050	mg/L	UB	Blank contamination
	YGWC-28S (092420)	SW846 6020	Lead	0.0050	mg/L	UB	Blank contamination
	YGWC-29I (092420)	SW846 6020	Lead	0.0050	mg/L	UB	Blank contamination
	YGWA-14S (092520)	SW846 6020	Boron	0.10	mg/L	UB	Blank contamination
	DUP-01 (092520)	SW846 6020	Boron	0.10	mg/L	UB	Blank contamination

Abbreviations:

mg/L = milligrams per liter

Qualifiers:

UB = not detected due to blank contamination

October 09, 2020

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

RE: Project: YATES AP-2
Pace Project No.: 92497149

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between September 23, 2020 and September 25, 2020. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

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

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

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES AP-2

Pace Project No.: 92497149

Pace Analytical Services Charlotte

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

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

Pace Analytical Services Asheville

2225 Riverside Drive, Asheville, NC 28804
Florida/NELAP Certification #: E87648
Massachusetts Certification #: M-NC030
North Carolina Drinking Water Certification #: 37712

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

Pace Analytical Services Peachtree Corners

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

North Carolina Certification #: 381
South Carolina Certification #: 98011001
Virginia Certification #: 460204

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES AP-2
Pace Project No.: 92497149

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92497149001	YGWA-1I (092320)	Water	09/23/20 09:50	09/23/20 17:40
92497149002	YGWA-1D (092320)	Water	09/23/20 10:45	09/23/20 17:40
92497149003	YGWA-2I (092320)	Water	09/23/20 12:45	09/23/20 17:40
92497149004	YGWA-3I (092320)	Water	09/23/20 14:45	09/23/20 17:40
92497149005	YGWA-3D (092320)	Water	09/23/20 15:55	09/25/20 18:03
92497149006	YGWA-30I (092420)	Water	09/24/20 09:45	09/25/20 18:03
92497149007	YGWA-26S (092420)	Water	09/24/20 10:35	09/25/20 18:03
92497149008	YGWA-26I (092420)	Water	09/24/20 11:20	09/25/20 18:03
92497149009	DUP-02 (092420)	Water	09/24/20 00:00	09/25/20 18:03
92497149010	YGWC-27S (092420)	Water	09/24/20 13:55	09/25/20 18:03
92497149011	YGWC-27I (092420)	Water	09/24/20 14:45	09/25/20 18:03
92497149012	FB-01 (092420)	Water	09/24/20 14:50	09/25/20 18:03
92497149013	EB-01 (092520)	Water	09/24/20 12:12	09/25/20 18:03
92497149014	YGWC-28S (092420)	Water	09/24/20 14:36	09/25/20 18:03
92497149015	YGWC-28I (092420)	Water	09/24/20 15:39	09/25/20 18:03
92497149016	YGWC-29I (092420)	Water	09/24/20 16:37	09/25/20 18:03
92497149017	EB-02 (092520)	Water	09/25/20 12:00	09/25/20 18:03
92497149018	YGWA-14S (092520)	Water	09/25/20 09:45	09/25/20 18:03
92497149019	DUP-01 (092520)	Water	09/25/20 00:00	09/25/20 18:03
92497149020	FB-02 (092520)	Water	09/25/20 09:30	09/25/20 18:03

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2
Pace Project No.: 92497149

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92497149001	YGWA-1I (092320)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149002	YGWA-1D (092320)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149003	YGWA-2I (092320)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149004	YGWA-3I (092320)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149005	YGWA-3D (092320)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	JRS	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149006	YGWA-30I (092420)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149007	YGWA-26S (092420)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149008	YGWA-26I (092420)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149009	DUP-02 (092420)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149010	YGWC-27S (092420)	EPA 6010D	DRB	1

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2
Pace Project No.: 92497149

Lab ID	Sample ID	Method	Analysts	Analytes Reported
92497149011	YGWC-27I (092420)	EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
92497149012	FB-01 (092420)	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
92497149013	EB-01 (092520)	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149014	YGWC-28S (092420)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
92497149015	YGWC-28I (092420)	EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
92497149016	YGWC-29I (092420)	SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
92497149017	EB-02 (092520)	EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149018	YGWA-14S (092520)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
		EPA 6010D	DRB	1
92497149019	DUP-01 (092520)	EPA 6020B	CW1	13
		EPA 6010D	DRB	1
		EPA 300.0 Rev 2.1 1993	BRJ	3

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2

Pace Project No.: 92497149

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3
92497149020	FB-02 (092520)	EPA 6010D	DRB	1
		EPA 6020B	CW1	13
		SM 2450C-2011	AW1	1
		EPA 300.0 Rev 2.1 1993	BRJ	3

PASI-A = Pace Analytical Services - Asheville

PASI-C = Pace Analytical Services - Charlotte

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

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SUMMARY OF DETECTION

Project: YATES AP-2

Pace Project No.: 92497149

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92497149001	YGWA-1I (092320)					
	pH	6.01	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	1.8	mg/L	1.0	09/30/20 21:03	
EPA 6020B	Barium	0.0079J	mg/L	0.010	09/30/20 20:04	
EPA 6020B	Chromium	0.00058J	mg/L	0.010	09/30/20 20:04	
EPA 6020B	Cobalt	0.0013J	mg/L	0.0050	09/30/20 20:04	
EPA 6020B	Lead	0.00021J	mg/L	0.0050	09/30/20 20:04	
EPA 6020B	Lithium	0.0024J	mg/L	0.030	09/30/20 20:04	
EPA 6020B	Molybdenum	0.0059J	mg/L	0.010	09/30/20 20:04	
SM 2450C-2011	Total Dissolved Solids	15.0	mg/L	10.0	09/28/20 14:50	
EPA 300.0 Rev 2.1 1993	Chloride	1.2	mg/L	1.0	09/29/20 05:24	
EPA 300.0 Rev 2.1 1993	Sulfate	3.4	mg/L	1.0	09/29/20 05:24	
92497149002	YGWA-1D (092320)					
	pH	7.15	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	14.1	mg/L	1.0	09/30/20 21:20	
EPA 6020B	Arsenic	0.0011J	mg/L	0.0050	09/30/20 20:10	
EPA 6020B	Barium	0.0068J	mg/L	0.010	09/30/20 20:10	
EPA 6020B	Chromium	0.00062J	mg/L	0.010	09/30/20 20:10	
EPA 6020B	Lithium	0.014J	mg/L	0.030	09/30/20 20:10	
EPA 6020B	Molybdenum	0.0080J	mg/L	0.010	09/30/20 20:10	
SM 2450C-2011	Total Dissolved Solids	108	mg/L	10.0	09/28/20 17:07	
EPA 300.0 Rev 2.1 1993	Chloride	0.99J	mg/L	1.0	09/29/20 05:39	
EPA 300.0 Rev 2.1 1993	Fluoride	0.058J	mg/L	0.10	09/29/20 05:39	
EPA 300.0 Rev 2.1 1993	Sulfate	8.1	mg/L	1.0	09/29/20 05:39	
92497149003	YGWA-2I (092320)					
	pH	7.22	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	26.3	mg/L	1.0	09/30/20 21:33	
EPA 6020B	Arsenic	0.0010J	mg/L	0.0050	09/30/20 20:16	
EPA 6020B	Barium	0.0039J	mg/L	0.010	09/30/20 20:16	
EPA 6020B	Lead	0.0011J	mg/L	0.0050	09/30/20 20:16	
EPA 6020B	Lithium	0.0016J	mg/L	0.030	09/30/20 20:16	
EPA 6020B	Molybdenum	0.0071J	mg/L	0.010	09/30/20 20:16	
SM 2450C-2011	Total Dissolved Solids	161	mg/L	10.0	09/28/20 17:08	
EPA 300.0 Rev 2.1 1993	Chloride	0.88J	mg/L	1.0	09/29/20 05:53	
EPA 300.0 Rev 2.1 1993	Fluoride	0.080J	mg/L	0.10	09/29/20 05:53	
EPA 300.0 Rev 2.1 1993	Sulfate	11.8	mg/L	1.0	09/29/20 05:53	
92497149004	YGWA-3I (092320)					
	pH	7.37	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	23.6	mg/L	1.0	09/30/20 21:37	
EPA 6020B	Barium	0.0039J	mg/L	0.010	10/01/20 10:04	
EPA 6020B	Beryllium	0.000059J	mg/L	0.0030	10/01/20 10:04	
EPA 6020B	Boron	0.0073J	mg/L	0.10	10/01/20 10:04	
EPA 6020B	Lead	0.00015J	mg/L	0.0050	10/01/20 10:04	
EPA 6020B	Lithium	0.013J	mg/L	0.030	10/01/20 10:04	
EPA 6020B	Molybdenum	0.010	mg/L	0.010	10/01/20 10:04	
EPA 6020B	Thallium	0.00016J	mg/L	0.0010	10/01/20 10:04	
SM 2450C-2011	Total Dissolved Solids	155	mg/L	10.0	09/28/20 17:08	

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SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92497149

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92497149004	YGWA-3I (092320)					
EPA 300.0 Rev 2.1 1993	Chloride	1.0	mg/L	1.0	09/29/20 06:08	
EPA 300.0 Rev 2.1 1993	Fluoride	0.098J	mg/L	0.10	09/29/20 06:08	
EPA 300.0 Rev 2.1 1993	Sulfate	16.8	mg/L	1.0	09/29/20 06:08	
92497149005	YGWA-3D (092320)					
	Performed by	CUSTOMER			10/08/20 08:24	
	pH	7.57	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	28.6	mg/L	1.0	10/01/20 23:15	
EPA 6020B	Barium	0.0051J	mg/L	0.010	10/05/20 16:52	
EPA 6020B	Boron	0.012J	mg/L	0.10	10/05/20 16:52	
EPA 6020B	Lithium	0.023J	mg/L	0.030	10/05/20 16:52	
EPA 6020B	Molybdenum	0.012	mg/L	0.010	10/05/20 16:52	
SM 2450C-2011	Total Dissolved Solids	157	mg/L	10.0	09/28/20 17:41	
EPA 300.0 Rev 2.1 1993	Chloride	1.1	mg/L	1.0	09/30/20 04:48	
EPA 300.0 Rev 2.1 1993	Fluoride	0.47	mg/L	0.10	09/30/20 04:48	
EPA 300.0 Rev 2.1 1993	Sulfate	6.9	mg/L	1.0	09/30/20 04:48	
92497149006	YGWA-30I (092420)					
	Performed by	CUSTOMER			10/08/20 08:24	
	pH	5.67	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	1.1	mg/L	1.0	10/01/20 23:20	
EPA 6020B	Barium	0.0062J	mg/L	0.010	10/05/20 16:58	
EPA 6020B	Boron	0.0075J	mg/L	0.10	10/05/20 16:58	
EPA 6020B	Cobalt	0.0064	mg/L	0.0050	10/05/20 16:58	
EPA 6020B	Lithium	0.0011J	mg/L	0.030	10/05/20 16:58	
SM 2450C-2011	Total Dissolved Solids	51.0	mg/L	10.0	09/30/20 09:31	
EPA 300.0 Rev 2.1 1993	Chloride	1.5	mg/L	1.0	09/30/20 05:03	
EPA 300.0 Rev 2.1 1993	Sulfate	0.69J	mg/L	1.0	09/30/20 05:03	
92497149007	YGWA-26S (092420)					
	Performed by	CUSTOMER			10/08/20 08:24	
	pH	5.46	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	11.3	mg/L	1.0	10/02/20 17:21	
EPA 6020B	Barium	0.025	mg/L	0.010	10/05/20 17:04	
EPA 6020B	Beryllium	0.000085J	mg/L	0.0030	10/05/20 17:04	
EPA 6020B	Boron	0.74	mg/L	0.10	10/05/20 17:04	
EPA 6020B	Chromium	0.00068J	mg/L	0.010	10/05/20 17:04	
EPA 6020B	Cobalt	0.0011J	mg/L	0.0050	10/05/20 17:04	
EPA 6020B	Lead	0.000064J	mg/L	0.0050	10/05/20 17:04	
SM 2450C-2011	Total Dissolved Solids	171	mg/L	10.0	09/30/20 09:31	
EPA 300.0 Rev 2.1 1993	Chloride	15.7	mg/L	1.0	09/30/20 05:17	
EPA 300.0 Rev 2.1 1993	Sulfate	92.3	mg/L	1.0	09/30/20 05:17	
92497149008	YGWA-26I (092420)					
	Performed by	CUSTOMER			10/08/20 08:24	
	pH	5.86	Std. Units		10/08/20 08:24	

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SUMMARY OF DETECTION

Project: YATES AP-2

Pace Project No.: 92497149

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92497149008	YGWA-26I (092420)					
EPA 6010D	Calcium	16.9	mg/L	1.0	10/02/20 17:25	
EPA 6020B	Barium	0.058	mg/L	0.010	10/05/20 17:10	
EPA 6020B	Boron	0.76	mg/L	0.10	10/05/20 17:10	
EPA 6020B	Chromium	0.00067J	mg/L	0.010	10/05/20 17:10	
EPA 6020B	Lithium	0.0074J	mg/L	0.030	10/05/20 17:10	
EPA 6020B	Selenium	0.0031J	mg/L	0.010	10/05/20 17:10	
SM 2450C-2011	Total Dissolved Solids	212	mg/L	10.0	09/30/20 09:31	
EPA 300.0 Rev 2.1 1993	Chloride	17.1	mg/L	1.0	09/30/20 05:32	
EPA 300.0 Rev 2.1 1993	Fluoride	0.053J	mg/L	0.10	09/30/20 05:32	
EPA 300.0 Rev 2.1 1993	Sulfate	85.6	mg/L	1.0	09/30/20 05:32	
92497149009	DUP-02 (092420)					
EPA 6010D	Calcium	16.7	mg/L	1.0	10/02/20 17:29	
EPA 6020B	Barium	0.057	mg/L	0.010	10/05/20 17:15	
EPA 6020B	Boron	0.77	mg/L	0.10	10/05/20 17:15	
EPA 6020B	Chromium	0.00072J	mg/L	0.010	10/05/20 17:15	
EPA 6020B	Lithium	0.0075J	mg/L	0.030	10/05/20 17:15	
EPA 6020B	Selenium	0.0031J	mg/L	0.010	10/05/20 17:15	
SM 2450C-2011	Total Dissolved Solids	217	mg/L	10.0	09/30/20 09:31	
EPA 300.0 Rev 2.1 1993	Chloride	17.1	mg/L	1.0	09/30/20 05:46	
EPA 300.0 Rev 2.1 1993	Fluoride	0.051J	mg/L	0.10	09/30/20 05:46	
EPA 300.0 Rev 2.1 1993	Sulfate	85.5	mg/L	1.0	09/30/20 05:46	
92497149010	YGWC-27S (092420)					
	Performed by	CUSTOMER			10/08/20 08:24	
	pH	6.27	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	38.6	mg/L	1.0	10/02/20 18:22	M1
EPA 6020B	Barium	0.087	mg/L	0.010	10/05/20 17:32	
EPA 6020B	Boron	1.3	mg/L	0.10	10/05/20 17:32	
EPA 6020B	Chromium	0.00057J	mg/L	0.010	10/05/20 17:32	
EPA 6020B	Cobalt	0.0021J	mg/L	0.0050	10/05/20 17:32	
EPA 6020B	Lead	0.00037J	mg/L	0.0050	10/05/20 17:32	
SM 2450C-2011	Total Dissolved Solids	185	mg/L	10.0	09/30/20 09:31	
EPA 300.0 Rev 2.1 1993	Chloride	17.0	mg/L	1.0	09/30/20 06:30	
EPA 300.0 Rev 2.1 1993	Fluoride	0.092J	mg/L	0.10	09/30/20 06:30	
EPA 300.0 Rev 2.1 1993	Sulfate	16.6	mg/L	1.0	09/30/20 06:30	
92497149011	YGWC-27I (092420)					
	Performed by	CUSTOMER			10/08/20 08:24	
	pH	6.36	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	27.9	mg/L	1.0	10/02/20 18:49	
EPA 6020B	Barium	0.069	mg/L	0.010	10/05/20 17:38	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	10/05/20 17:38	
EPA 6020B	Boron	2.3	mg/L	0.10	10/05/20 17:38	
EPA 6020B	Cobalt	0.0076	mg/L	0.0050	10/05/20 17:38	
EPA 6020B	Lithium	0.0075J	mg/L	0.030	10/05/20 17:38	
EPA 6020B	Molybdenum	0.0015J	mg/L	0.010	10/05/20 17:38	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2
Pace Project No.: 92497149

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92497149011	YGWC-271 (092420)					
SM 2450C-2011	Total Dissolved Solids	186	mg/L	10.0	09/30/20 09:31	
EPA 300.0 Rev 2.1 1993	Chloride	13.3	mg/L	1.0	09/30/20 06:44	
EPA 300.0 Rev 2.1 1993	Fluoride	0.059J	mg/L	0.10	09/30/20 06:44	
EPA 300.0 Rev 2.1 1993	Sulfate	3.0	mg/L	1.0	09/30/20 06:44	
92497149012	FB-01 (092420)					
EPA 6020B	Boron	0.014J	mg/L	0.10	10/05/20 17:44	
92497149013	EB-01 (092520)					
EPA 6010D	Calcium	0.11J	mg/L	1.0	10/02/20 18:57	
EPA 6020B	Boron	0.0053J	mg/L	0.10	10/05/20 17:50	
EPA 6020B	Lead	0.0042J	mg/L	0.0050	10/05/20 17:50	
92497149014	YGWC-28S (092420)					
	Performed by	CUSTOME			10/08/20 08:24	
		R				
	pH	6.53	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	30.8	mg/L	1.0	10/02/20 19:02	
EPA 6020B	Barium	0.18	mg/L	0.010	10/05/20 17:55	
EPA 6020B	Boron	2.6	mg/L	0.10	10/05/20 17:55	
EPA 6020B	Chromium	0.00060J	mg/L	0.010	10/05/20 17:55	
EPA 6020B	Cobalt	0.00085J	mg/L	0.0050	10/05/20 17:55	
EPA 6020B	Lead	0.000063J	mg/L	0.0050	10/05/20 17:55	
EPA 6020B	Molybdenum	0.00075J	mg/L	0.010	10/05/20 17:55	
SM 2450C-2011	Total Dissolved Solids	226	mg/L	10.0	09/30/20 09:32	
EPA 300.0 Rev 2.1 1993	Chloride	18.0	mg/L	1.0	09/30/20 08:25	
EPA 300.0 Rev 2.1 1993	Fluoride	0.16	mg/L	0.10	09/30/20 08:25	
EPA 300.0 Rev 2.1 1993	Sulfate	0.99J	mg/L	1.0	09/30/20 08:25	
92497149015	YGWC-28I (092420)					
	Performed by	CUSTOME			10/08/20 08:24	
		R				
	pH	6.41	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	34.3	mg/L	1.0	10/02/20 19:06	
EPA 6020B	Barium	0.079	mg/L	0.010	10/02/20 18:48	
EPA 6020B	Boron	2.1	mg/L	0.10	10/02/20 18:48	
EPA 6020B	Cadmium	0.00027J	mg/L	0.0025	10/02/20 18:48	
EPA 6020B	Lithium	0.0065J	mg/L	0.030	10/02/20 18:48	
EPA 6020B	Molybdenum	0.0012J	mg/L	0.010	10/02/20 18:48	
SM 2450C-2011	Total Dissolved Solids	209	mg/L	10.0	09/30/20 09:32	
EPA 300.0 Rev 2.1 1993	Chloride	15.1	mg/L	1.0	09/30/20 08:40	
EPA 300.0 Rev 2.1 1993	Fluoride	0.073J	mg/L	0.10	09/30/20 08:40	
EPA 300.0 Rev 2.1 1993	Sulfate	7.2	mg/L	1.0	09/30/20 08:40	
92497149016	YGWC-29I (092420)					
	Performed by	CUSTOME			10/08/20 08:24	
		R				
	pH	6.20	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	12.4	mg/L	1.0	10/02/20 19:10	
EPA 6020B	Antimony	0.0013J	mg/L	0.0030	10/02/20 19:11	

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SUMMARY OF DETECTION

Project: YATES AP-2

Pace Project No.: 92497149

Lab Sample ID	Client Sample ID	Result	Units	Report Limit	Analyzed	Qualifiers
Method	Parameters					
92497149016	YGWC-29I (092420)					
EPA 6020B	Barium	0.056	mg/L	0.010	10/02/20 19:11	
EPA 6020B	Boron	0.84	mg/L	0.10	10/02/20 19:11	
EPA 6020B	Cadmium	0.00033J	mg/L	0.0025	10/02/20 19:11	
EPA 6020B	Lead	0.000095J	mg/L	0.0050	10/02/20 19:11	
EPA 6020B	Lithium	0.0050J	mg/L	0.030	10/02/20 19:11	
SM 2450C-2011	Total Dissolved Solids	133	mg/L	10.0	09/30/20 09:32	
EPA 300.0 Rev 2.1 1993	Chloride	10.9	mg/L	1.0	09/30/20 09:23	
EPA 300.0 Rev 2.1 1993	Fluoride	0.060J	mg/L	0.10	09/30/20 09:23	
EPA 300.0 Rev 2.1 1993	Sulfate	26.2	mg/L	1.0	09/30/20 09:23	
92497149018	YGWA-14S (092520)					
	Performed by	CUSTOME			10/08/20 08:24	
		R				
	pH	5.44	Std. Units		10/08/20 08:24	
EPA 6010D	Calcium	1.3	mg/L	1.0	10/02/20 19:19	
EPA 6020B	Barium	0.0073J	mg/L	0.010	10/02/20 19:34	
EPA 6020B	Beryllium	0.00018J	mg/L	0.0030	10/02/20 19:34	
EPA 6020B	Boron	0.020J	mg/L	0.10	10/02/20 19:34	
SM 2450C-2011	Total Dissolved Solids	54.0	mg/L	10.0	10/01/20 15:23	
EPA 300.0 Rev 2.1 1993	Chloride	5.3	mg/L	1.0	09/30/20 09:52	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	09/30/20 09:52	
92497149019	DUP-01 (092520)					
EPA 6010D	Calcium	1.2	mg/L	1.0	10/02/20 19:32	
EPA 6020B	Barium	0.0074J	mg/L	0.010	10/02/20 19:39	
EPA 6020B	Beryllium	0.00019J	mg/L	0.0030	10/02/20 19:39	
EPA 6020B	Boron	0.019J	mg/L	0.10	10/02/20 19:39	
EPA 6020B	Selenium	0.0025J	mg/L	0.010	10/02/20 19:39	
SM 2450C-2011	Total Dissolved Solids	49.0	mg/L	10.0	10/01/20 15:24	
EPA 300.0 Rev 2.1 1993	Chloride	5.2	mg/L	1.0	09/30/20 10:07	
EPA 300.0 Rev 2.1 1993	Sulfate	6.1	mg/L	1.0	09/30/20 10:07	
92497149020	FB-02 (092520)					
EPA 6020B	Lead	0.00010J	mg/L	0.0050	10/02/20 19:45	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: YGWA-1I (092320) Lab ID: 92497149001 Collected: 09/23/20 09:50 Received: 09/23/20 17:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	6.01	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.8	mg/L	1.0	0.070	1	09/28/20 15:51	09/30/20 21:03	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	0.00028	1	09/29/20 18:28	09/30/20 20:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 20:04	7440-38-2	
Barium	0.0079J	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 20:04	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 20:04	7440-41-7	
Boron	ND	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 20:04	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 20:04	7440-43-9	
Chromium	0.00058J	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 20:04	7440-47-3	
Cobalt	0.0013J	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 20:04	7440-48-4	
Lead	0.00021J	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 20:04	7439-92-1	
Lithium	0.0024J	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 20:04	7439-93-2	
Molybdenum	0.0059J	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 20:04	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 20:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 20:04	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	15.0	mg/L	10.0	10.0	1		09/28/20 14:50		
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		09/29/20 05:24	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/29/20 05:24	16984-48-8	
Sulfate	3.4	mg/L	1.0	0.50	1		09/29/20 05:24	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: YGWA-1D (092320) Lab ID: 92497149002 Collected: 09/23/20 10:45 Received: 09/23/20 17:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	7.15	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	14.1	mg/L	1.0	0.070	1	09/28/20 15:51	09/30/20 21:20	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:28	09/30/20 20:10	7440-36-0	
Arsenic	0.0011J	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 20:10	7440-38-2	
Barium	0.0068J	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 20:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 20:10	7440-41-7	
Boron	ND	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 20:10	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 20:10	7440-43-9	
Chromium	0.00062J	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 20:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 20:10	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 20:10	7439-92-1	
Lithium	0.014J	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 20:10	7439-93-2	
Molybdenum	0.0080J	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 20:10	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 20:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 20:10	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	108	mg/L	10.0	10.0	1		09/28/20 17:07		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.99J	mg/L	1.0	0.60	1		09/29/20 05:39	16887-00-6	
Fluoride	0.058J	mg/L	0.10	0.050	1		09/29/20 05:39	16984-48-8	
Sulfate	8.1	mg/L	1.0	0.50	1		09/29/20 05:39	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2

Pace Project No.: 92497149

Sample: YGWA-2I (092320) Lab ID: 92497149003 Collected: 09/23/20 12:45 Received: 09/23/20 17:40 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	7.22	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	26.3	mg/L	1.0	0.070	1	09/28/20 15:51	09/30/20 21:33	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	0.00028	1	09/29/20 18:28	09/30/20 20:16	7440-36-0	
Arsenic	0.0010J	mg/L	0.0050	0.00078	1	09/29/20 18:28	09/30/20 20:16	7440-38-2	
Barium	0.0039J	mg/L	0.010	0.00071	1	09/29/20 18:28	09/30/20 20:16	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/29/20 18:28	09/30/20 20:16	7440-41-7	
Boron	ND	mg/L	0.10	0.0052	1	09/29/20 18:28	09/30/20 20:16	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/29/20 18:28	09/30/20 20:16	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 18:28	09/30/20 20:16	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/29/20 18:28	09/30/20 20:16	7440-48-4	
Lead	0.0011J	mg/L	0.0050	0.000036	1	09/29/20 18:28	09/30/20 20:16	7439-92-1	
Lithium	0.0016J	mg/L	0.030	0.00081	1	09/29/20 18:28	09/30/20 20:16	7439-93-2	
Molybdenum	0.0071J	mg/L	0.010	0.00069	1	09/29/20 18:28	09/30/20 20:16	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:28	09/30/20 20:16	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/29/20 18:28	09/30/20 20:16	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	161	mg/L	10.0	10.0	1		09/28/20 17:08		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	0.88J	mg/L	1.0	0.60	1		09/29/20 05:53	16887-00-6	
Fluoride	0.080J	mg/L	0.10	0.050	1		09/29/20 05:53	16984-48-8	
Sulfate	11.8	mg/L	1.0	0.50	1		09/29/20 05:53	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2

Pace Project No.: 92497149

Sample: YGWA-3I (092320) **Lab ID: 92497149004** Collected: 09/23/20 14:45 Received: 09/23/20 17:40 Matrix: Water

Parameters	Results	Units	Report			Prepared	Analyzed	CAS No.	Qual
			Limit	MDL	DF				
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
pH	7.37	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A									
Pace Analytical Services - Peachtree Corners, GA									
Calcium	23.6	mg/L	1.0	0.070	1	09/28/20 15:51	09/30/20 21:37	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A									
Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/29/20 18:39	10/01/20 10:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/29/20 18:39	10/01/20 10:04	7440-38-2	
Barium	0.0039J	mg/L	0.010	0.00071	1	09/29/20 18:39	10/01/20 10:04	7440-39-3	
Beryllium	0.000059J	mg/L	0.0030	0.000046	1	09/29/20 18:39	10/01/20 10:04	7440-41-7	
Boron	0.0073J	mg/L	0.10	0.0052	1	09/29/20 18:39	10/01/20 10:04	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/29/20 18:39	10/01/20 10:04	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/29/20 18:39	10/01/20 10:04	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/29/20 18:39	10/01/20 10:04	7440-48-4	
Lead	0.00015J	mg/L	0.0050	0.000036	1	09/29/20 18:39	10/01/20 10:04	7439-92-1	
Lithium	0.013J	mg/L	0.030	0.00081	1	09/29/20 18:39	10/01/20 10:04	7439-93-2	
Molybdenum	0.010	mg/L	0.010	0.00069	1	09/29/20 18:39	10/01/20 10:04	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/29/20 18:39	10/01/20 10:04	7782-49-2	
Thallium	0.00016J	mg/L	0.0010	0.00014	1	09/29/20 18:39	10/01/20 10:04	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011									
Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	155	mg/L	10.0	10.0	1		09/28/20 17:08		
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		09/29/20 06:08	16887-00-6	
Fluoride	0.098J	mg/L	0.10	0.050	1		09/29/20 06:08	16984-48-8	
Sulfate	16.8	mg/L	1.0	0.50	1		09/29/20 06:08	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: YGWA-3D (092320) Lab ID: 92497149005 Collected: 09/23/20 15:55 Received: 09/25/20 18:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	7.57	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	28.6	mg/L	1.0	0.070	1	09/30/20 20:44	10/01/20 23:15	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 20:47	10/05/20 16:52	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 16:52	7440-38-2	
Barium	0.0051J	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 16:52	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 16:52	7440-41-7	
Boron	0.012J	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 16:52	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 16:52	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 16:52	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 16:52	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 16:52	7439-92-1	
Lithium	0.023J	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 16:52	7439-93-2	
Molybdenum	0.012	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 16:52	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 16:52	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 16:52	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	157	mg/L	10.0	10.0	1		09/28/20 17:41		
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		09/30/20 04:48	16887-00-6	
Fluoride	0.47	mg/L	0.10	0.050	1		09/30/20 04:48	16984-48-8	
Sulfate	6.9	mg/L	1.0	0.50	1		09/30/20 04:48	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2

Pace Project No.: 92497149

Sample: YGWA-30I (092420) **Lab ID: 92497149006** Collected: 09/24/20 09:45 Received: 09/25/20 18:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	5.67	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.1	mg/L	1.0	0.070	1	09/30/20 20:44	10/01/20 23:20	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 20:47	10/05/20 16:58	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 16:58	7440-38-2	
Barium	0.0062J	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 16:58	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 16:58	7440-41-7	
Boron	0.0075J	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 16:58	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 16:58	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 16:58	7440-47-3	
Cobalt	0.0064	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 16:58	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 16:58	7439-92-1	
Lithium	0.0011J	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 16:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 16:58	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 16:58	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 16:58	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	51.0	mg/L	10.0	10.0	1		09/30/20 09:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	1.5	mg/L	1.0	0.60	1		09/30/20 05:03	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 05:03	16984-48-8	
Sulfate	0.69J	mg/L	1.0	0.50	1		09/30/20 05:03	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: YGWA-26S (092420) Lab ID: 92497149007 Collected: 09/24/20 10:35 Received: 09/25/20 18:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	5.46	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	11.3	mg/L	1.0	0.070	1	09/30/20 20:44	10/02/20 17:21	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 20:47	10/05/20 17:04	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 17:04	7440-38-2	
Barium	0.025	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 17:04	7440-39-3	
Beryllium	0.000085J	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 17:04	7440-41-7	
Boron	0.74	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 17:04	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 17:04	7440-43-9	
Chromium	0.00068J	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 17:04	7440-47-3	
Cobalt	0.0011J	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 17:04	7440-48-4	
Lead	0.000064J	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 17:04	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 17:04	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 17:04	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 17:04	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 17:04	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	171	mg/L	10.0	10.0	1		09/30/20 09:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	15.7	mg/L	1.0	0.60	1		09/30/20 05:17	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 05:17	16984-48-8	
Sulfate	92.3	mg/L	1.0	0.50	1		09/30/20 05:17	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: YGWA-26I (092420) Lab ID: 92497149008 Collected: 09/24/20 11:20 Received: 09/25/20 18:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	5.86	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	16.9	mg/L	1.0	0.070	1	09/30/20 20:44	10/02/20 17:25	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 20:47	10/05/20 17:10	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 17:10	7440-38-2	
Barium	0.058	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 17:10	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 17:10	7440-41-7	
Boron	0.76	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 17:10	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 17:10	7440-43-9	
Chromium	0.00067J	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 17:10	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 17:10	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 17:10	7439-92-1	
Lithium	0.0074J	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 17:10	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 17:10	7439-98-7	
Selenium	0.0031J	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 17:10	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 17:10	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	212	mg/L	10.0	10.0	1		09/30/20 09:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	17.1	mg/L	1.0	0.60	1		09/30/20 05:32	16887-00-6	
Fluoride	0.053J	mg/L	0.10	0.050	1		09/30/20 05:32	16984-48-8	
Sulfate	85.6	mg/L	1.0	0.50	1		09/30/20 05:32	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: DUP-02 (092420) Lab ID: 92497149009 Collected: 09/24/20 00:00 Received: 09/25/20 18:03 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										
Calcium	16.7	mg/L	1.0	0.070	1	09/30/20 20:44	10/02/20 17:29	7440-70-2		
6020 MET ICPMS										
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA										
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 20:47	10/05/20 17:15	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 17:15	7440-38-2		
Barium	0.057	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 17:15	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 17:15	7440-41-7		
Boron	0.77	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 17:15	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 17:15	7440-43-9		
Chromium	0.00072J	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 17:15	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 17:15	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 17:15	7439-92-1		
Lithium	0.0075J	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 17:15	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 17:15	7439-98-7		
Selenium	0.0031J	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 17:15	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 17:15	7440-28-0		
2540C Total Dissolved Solids										
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA										
Total Dissolved Solids	217	mg/L	10.0	10.0	1		09/30/20 09:31			
300.0 IC Anions 28 Days										
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville										
Chloride	17.1	mg/L	1.0	0.60	1		09/30/20 05:46	16887-00-6		
Fluoride	0.051J	mg/L	0.10	0.050	1		09/30/20 05:46	16984-48-8		
Sulfate	85.5	mg/L	1.0	0.50	1		09/30/20 05:46	14808-79-8		

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: YGWC-27S (092420) Lab ID: 92497149010 Collected: 09/24/20 13:55 Received: 09/25/20 18:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	6.27	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	38.6	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 18:22	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	0.00028	1	09/30/20 20:47	10/05/20 17:32	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 17:32	7440-38-2	
Barium	0.087	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 17:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 17:32	7440-41-7	
Boron	1.3	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 17:32	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 17:32	7440-43-9	
Chromium	0.00057J	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 17:32	7440-47-3	
Cobalt	0.0021J	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 17:32	7440-48-4	
Lead	0.00037J	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 17:32	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 17:32	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 17:32	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 17:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 17:32	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	185	mg/L	10.0	10.0	1		09/30/20 09:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	17.0	mg/L	1.0	0.60	1		09/30/20 06:30	16887-00-6	
Fluoride	0.092J	mg/L	0.10	0.050	1		09/30/20 06:30	16984-48-8	
Sulfate	16.6	mg/L	1.0	0.50	1		09/30/20 06:30	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: YGWC-271 (092420) **Lab ID: 92497149011** Collected: 09/24/20 14:45 Received: 09/25/20 18:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	6.36	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	27.9	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 18:49	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 20:47	10/05/20 17:38	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 17:38	7440-38-2	
Barium	0.069	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 17:38	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 17:38	7440-41-7	
Boron	2.3	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 17:38	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 17:38	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 17:38	7440-47-3	
Cobalt	0.0076	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 17:38	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 17:38	7439-92-1	
Lithium	0.0075J	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 17:38	7439-93-2	
Molybdenum	0.0015J	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 17:38	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 17:38	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 17:38	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	186	mg/L	10.0	10.0	1		09/30/20 09:31		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	13.3	mg/L	1.0	0.60	1		09/30/20 06:44	16887-00-6	
Fluoride	0.059J	mg/L	0.10	0.050	1		09/30/20 06:44	16984-48-8	
Sulfate	3.0	mg/L	1.0	0.50	1		09/30/20 06:44	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: FB-01 (092420)		Lab ID: 92497149012		Collected: 09/24/20 14:50	Received: 09/25/20 18:03	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							
Calcium	ND	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 18:53	7440-70-2	
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA							
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 20:47	10/05/20 17:44	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 17:44	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 17:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 17:44	7440-41-7	
Boron	0.014J	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 17:44	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 17:44	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 17:44	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 17:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 17:44	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 17:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 17:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 17:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 17:44	7440-28-0	
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/30/20 09:31		
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		09/30/20 06:59	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 06:59	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/30/20 06:59	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: EB-01 (092520)		Lab ID: 92497149013		Collected: 09/24/20 12:12	Received: 09/25/20 18:03	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									
Calcium	0.11J	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 18:57	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 20:47	10/05/20 17:50	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 17:50	7440-38-2	
Barium	ND	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 17:50	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 17:50	7440-41-7	
Boron	0.0053J	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 17:50	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 17:50	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 17:50	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 17:50	7440-48-4	
Lead	0.0042J	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 17:50	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 17:50	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 17:50	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 17:50	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 17:50	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		09/30/20 09:31		
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		09/30/20 07:42	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 07:42	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		09/30/20 07:42	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: YGWC-28S (092420) **Lab ID: 92497149014** Collected: 09/24/20 14:36 Received: 09/25/20 18:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	6.53	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	30.8	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:02	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	09/30/20 20:47	10/05/20 17:55	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	09/30/20 20:47	10/05/20 17:55	7440-38-2	
Barium	0.18	mg/L	0.010	0.00071	1	09/30/20 20:47	10/05/20 17:55	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	09/30/20 20:47	10/05/20 17:55	7440-41-7	
Boron	2.6	mg/L	0.10	0.0052	1	09/30/20 20:47	10/05/20 17:55	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	09/30/20 20:47	10/05/20 17:55	7440-43-9	
Chromium	0.00060J	mg/L	0.010	0.00055	1	09/30/20 20:47	10/05/20 17:55	7440-47-3	
Cobalt	0.00085J	mg/L	0.0050	0.00038	1	09/30/20 20:47	10/05/20 17:55	7440-48-4	
Lead	0.000063J	mg/L	0.0050	0.000036	1	09/30/20 20:47	10/05/20 17:55	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	09/30/20 20:47	10/05/20 17:55	7439-93-2	
Molybdenum	0.00075J	mg/L	0.010	0.00069	1	09/30/20 20:47	10/05/20 17:55	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	09/30/20 20:47	10/05/20 17:55	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	09/30/20 20:47	10/05/20 17:55	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	226	mg/L	10.0	10.0	1		09/30/20 09:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	18.0	mg/L	1.0	0.60	1		09/30/20 08:25	16887-00-6	
Fluoride	0.16	mg/L	0.10	0.050	1		09/30/20 08:25	16984-48-8	
Sulfate	0.99J	mg/L	1.0	0.50	1		09/30/20 08:25	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: YGWC-28I (092420) Lab ID: 92497149015 Collected: 09/24/20 15:39 Received: 09/25/20 18:03 Matrix: Water									
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	6.41	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	34.3	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:06	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	10/01/20 15:24	10/02/20 18:48	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	10/01/20 15:24	10/02/20 18:48	7440-38-2	
Barium	0.079	mg/L	0.010	0.00071	1	10/01/20 15:24	10/02/20 18:48	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	10/01/20 15:24	10/02/20 18:48	7440-41-7	
Boron	2.1	mg/L	0.10	0.0052	1	10/01/20 15:24	10/02/20 18:48	7440-42-8	
Cadmium	0.00027J	mg/L	0.0025	0.00012	1	10/01/20 15:24	10/02/20 18:48	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	10/01/20 15:24	10/02/20 18:48	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/01/20 15:24	10/02/20 18:48	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/01/20 15:24	10/02/20 18:48	7439-92-1	
Lithium	0.0065J	mg/L	0.030	0.00081	1	10/01/20 15:24	10/02/20 18:48	7439-93-2	
Molybdenum	0.0012J	mg/L	0.010	0.00069	1	10/01/20 15:24	10/02/20 18:48	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/01/20 15:24	10/02/20 18:48	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/01/20 15:24	10/02/20 18:48	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	209	mg/L	10.0	10.0	1		09/30/20 09:32		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	15.1	mg/L	1.0	0.60	1		09/30/20 08:40	16887-00-6	
Fluoride	0.073J	mg/L	0.10	0.050	1		09/30/20 08:40	16984-48-8	
Sulfate	7.2	mg/L	1.0	0.50	1		09/30/20 08:40	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2

Pace Project No.: 92497149

Sample: **YGWC-29I (092420)** Lab ID: **92497149016** Collected: 09/24/20 16:37 Received: 09/25/20 18:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	6.20	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	12.4	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:10	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	0.0013J	mg/L	0.0030	0.00028	1	10/01/20 15:24	10/02/20 19:11	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	10/01/20 15:24	10/02/20 19:11	7440-38-2	
Barium	0.056	mg/L	0.010	0.00071	1	10/01/20 15:24	10/02/20 19:11	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000046	1	10/01/20 15:24	10/02/20 19:11	7440-41-7	
Boron	0.84	mg/L	0.10	0.0052	1	10/01/20 15:24	10/02/20 19:11	7440-42-8	
Cadmium	0.00033J	mg/L	0.0025	0.00012	1	10/01/20 15:24	10/02/20 19:11	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	10/01/20 15:24	10/02/20 19:11	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/01/20 15:24	10/02/20 19:11	7440-48-4	
Lead	0.000095J	mg/L	0.0050	0.000036	1	10/01/20 15:24	10/02/20 19:11	7439-92-1	
Lithium	0.0050J	mg/L	0.030	0.00081	1	10/01/20 15:24	10/02/20 19:11	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/01/20 15:24	10/02/20 19:11	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/01/20 15:24	10/02/20 19:11	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/01/20 15:24	10/02/20 19:11	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	133	mg/L	10.0	10.0	1		09/30/20 09:32		
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		09/30/20 09:23	16887-00-6	
Fluoride	0.060J	mg/L	0.10	0.050	1		09/30/20 09:23	16984-48-8	
Sulfate	26.2	mg/L	1.0	0.50	1		09/30/20 09:23	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: EB-02 (092520)		Lab ID: 92497149017		Collected: 09/25/20 12:00	Received: 09/25/20 18:03	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								
Calcium	ND	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:15	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	10/01/20 15:24	10/02/20 19:28	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	10/01/20 15:24	10/02/20 19:28	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	10/01/20 15:24	10/02/20 19:28	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	10/01/20 15:24	10/02/20 19:28	7440-41-7		
Boron	ND	mg/L	0.10	0.0052	1	10/01/20 15:24	10/02/20 19:28	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	10/01/20 15:24	10/02/20 19:28	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	10/01/20 15:24	10/02/20 19:28	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	10/01/20 15:24	10/02/20 19:28	7440-48-4		
Lead	ND	mg/L	0.0050	0.000036	1	10/01/20 15:24	10/02/20 19:28	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	10/01/20 15:24	10/02/20 19:28	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	10/01/20 15:24	10/02/20 19:28	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	10/01/20 15:24	10/02/20 19:28	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	10/01/20 15:24	10/02/20 19:28	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/01/20 15:23			
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		09/30/20 09:38	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 09:38	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/30/20 09:38	14808-79-8		

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ANALYTICAL RESULTS

Project: YATES AP-2

Pace Project No.: 92497149

Sample: YGWA-14S (092520) **Lab ID: 92497149018** Collected: 09/25/20 09:45 Received: 09/25/20 18:03 Matrix: Water

Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
Field Data									
Analytical Method: Pace Analytical Services - Charlotte									
Performed by	CUSTOMER				1		10/08/20 08:24		
pH	5.44	Std. Units			1		10/08/20 08:24		
6010D ATL ICP									
Analytical Method: EPA 6010D Preparation Method: EPA 3010A Pace Analytical Services - Peachtree Corners, GA									
Calcium	1.3	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:19	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	10/01/20 15:24	10/02/20 19:34	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	10/01/20 15:24	10/02/20 19:34	7440-38-2	
Barium	0.0073J	mg/L	0.010	0.00071	1	10/01/20 15:24	10/02/20 19:34	7440-39-3	
Beryllium	0.00018J	mg/L	0.0030	0.000046	1	10/01/20 15:24	10/02/20 19:34	7440-41-7	
Boron	0.020J	mg/L	0.10	0.0052	1	10/01/20 15:24	10/02/20 19:34	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	10/01/20 15:24	10/02/20 19:34	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	10/01/20 15:24	10/02/20 19:34	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/01/20 15:24	10/02/20 19:34	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/01/20 15:24	10/02/20 19:34	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/01/20 15:24	10/02/20 19:34	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/01/20 15:24	10/02/20 19:34	7439-98-7	
Selenium	ND	mg/L	0.010	0.0016	1	10/01/20 15:24	10/02/20 19:34	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/01/20 15:24	10/02/20 19:34	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	54.0	mg/L	10.0	10.0	1		10/01/20 15:23		
300.0 IC Anions 28 Days									
Analytical Method: EPA 300.0 Rev 2.1 1993 Pace Analytical Services - Asheville									
Chloride	5.3	mg/L	1.0	0.60	1		09/30/20 09:52	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 09:52	16984-48-8	
Sulfate	6.1	mg/L	1.0	0.50	1		09/30/20 09:52	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: DUP-01 (092520) Lab ID: 92497149019 Collected: 09/25/20 00:00 Received: 09/25/20 18:03 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									
Calcium	1.2	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:32	7440-70-2	
6020 MET ICPMS									
Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA									
Antimony	ND	mg/L	0.0030	0.00028	1	10/01/20 15:24	10/02/20 19:39	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00078	1	10/01/20 15:24	10/02/20 19:39	7440-38-2	
Barium	0.0074J	mg/L	0.010	0.00071	1	10/01/20 15:24	10/02/20 19:39	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000046	1	10/01/20 15:24	10/02/20 19:39	7440-41-7	
Boron	0.019J	mg/L	0.10	0.0052	1	10/01/20 15:24	10/02/20 19:39	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00012	1	10/01/20 15:24	10/02/20 19:39	7440-43-9	
Chromium	ND	mg/L	0.010	0.00055	1	10/01/20 15:24	10/02/20 19:39	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00038	1	10/01/20 15:24	10/02/20 19:39	7440-48-4	
Lead	ND	mg/L	0.0050	0.000036	1	10/01/20 15:24	10/02/20 19:39	7439-92-1	
Lithium	ND	mg/L	0.030	0.00081	1	10/01/20 15:24	10/02/20 19:39	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00069	1	10/01/20 15:24	10/02/20 19:39	7439-98-7	
Selenium	0.0025J	mg/L	0.010	0.0016	1	10/01/20 15:24	10/02/20 19:39	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	10/01/20 15:24	10/02/20 19:39	7440-28-0	
2540C Total Dissolved Solids									
Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA									
Total Dissolved Solids	49.0	mg/L	10.0	10.0	1		10/01/20 15:24		
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		09/30/20 10:07	16887-00-6	
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 10:07	16984-48-8	
Sulfate	6.1	mg/L	1.0	0.50	1		09/30/20 10:07	14808-79-8	

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ANALYTICAL RESULTS

Project: YATES AP-2
Pace Project No.: 92497149

Sample: FB-02 (092520)		Lab ID: 92497149020		Collected: 09/25/20 09:30	Received: 09/25/20 18:03	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								
Calcium	ND	mg/L	1.0	0.070	1	10/01/20 15:00	10/02/20 19:36	7440-70-2		
6020 MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A Pace Analytical Services - Peachtree Corners, GA								
Antimony	ND	mg/L	0.0030	0.00028	1	10/01/20 15:24	10/02/20 19:45	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00078	1	10/01/20 15:24	10/02/20 19:45	7440-38-2		
Barium	ND	mg/L	0.010	0.00071	1	10/01/20 15:24	10/02/20 19:45	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000046	1	10/01/20 15:24	10/02/20 19:45	7440-41-7		
Boron	ND	mg/L	0.10	0.0052	1	10/01/20 15:24	10/02/20 19:45	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00012	1	10/01/20 15:24	10/02/20 19:45	7440-43-9		
Chromium	ND	mg/L	0.010	0.00055	1	10/01/20 15:24	10/02/20 19:45	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00038	1	10/01/20 15:24	10/02/20 19:45	7440-48-4		
Lead	0.00010J	mg/L	0.0050	0.000036	1	10/01/20 15:24	10/02/20 19:45	7439-92-1		
Lithium	ND	mg/L	0.030	0.00081	1	10/01/20 15:24	10/02/20 19:45	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00069	1	10/01/20 15:24	10/02/20 19:45	7439-98-7		
Selenium	ND	mg/L	0.010	0.0016	1	10/01/20 15:24	10/02/20 19:45	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	10/01/20 15:24	10/02/20 19:45	7440-28-0		
2540C Total Dissolved Solids		Analytical Method: SM 2450C-2011 Pace Analytical Services - Peachtree Corners, GA								
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/01/20 15:24			
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		09/30/20 10:21	16887-00-6		
Fluoride	ND	mg/L	0.10	0.050	1		09/30/20 10:21	16984-48-8		
Sulfate	ND	mg/L	1.0	0.50	1		09/30/20 10:21	14808-79-8		

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QUALITY CONTROL DATA

Project: YATES AP-2

Pace Project No.: 92497149

QC Batch: 569461

Analysis Method: EPA 6010D

QC Batch Method: EPA 3010A

Analysis Description: 6010D ATL

Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92497149001, 92497149002, 92497149003, 92497149004

METHOD BLANK: 3017167

Matrix: Water

Associated Lab Samples: 92497149001, 92497149002, 92497149003, 92497149004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	09/30/20 20:54	

LABORATORY CONTROL SAMPLE: 3017168

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.94J	94	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017169 3017170

Parameter	Units	3017169		3017170		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497149001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	1.8	1	1	2.8	2.8	94	95	75-125	1	20

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 570091 Analysis Method: EPA 6010D
QC Batch Method: EPA 3010A Analysis Description: 6010D ATL
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92497149005, 92497149006, 92497149007, 92497149008, 92497149009

METHOD BLANK: 3020059 Matrix: Water
Associated Lab Samples: 92497149005, 92497149006, 92497149007, 92497149008, 92497149009

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	10/01/20 21:32	

LABORATORY CONTROL SAMPLE: 3020060

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	0.95J	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020061 3020062

Parameter	Units	3020061		3020062		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497141014 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Calcium	mg/L	84.3	1	1	87.0	87.6	271	337	75-125	1	20 M1

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch:	570301	Analysis Method:	EPA 6010D
QC Batch Method:	EPA 3010A	Analysis Description:	6010D ATL
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92497149010, 92497149011, 92497149012, 92497149013, 92497149014, 92497149015, 92497149016, 92497149017, 92497149018, 92497149019, 92497149020

METHOD BLANK: 3020964 Matrix: Water
Associated Lab Samples: 92497149010, 92497149011, 92497149012, 92497149013, 92497149014, 92497149015, 92497149016, 92497149017, 92497149018, 92497149019, 92497149020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Calcium	mg/L	ND	1.0	0.070	10/02/20 18:13	

LABORATORY CONTROL SAMPLE: 3020965

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Calcium	mg/L	1	1.0	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020966 3020967

Parameter	Units	92497149010 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Calcium	mg/L	38.6	1	1	37.8	39.0	-77	45	75-125	3	20	M1

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 569772 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92497149001, 92497149002, 92497149003

METHOD BLANK: 3018362 Matrix: Water
Associated Lab Samples: 92497149001, 92497149002, 92497149003

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	09/30/20 17:36	
Arsenic	mg/L	ND	0.0050	0.00078	09/30/20 17:36	
Barium	mg/L	ND	0.010	0.00071	09/30/20 17:36	
Beryllium	mg/L	ND	0.0030	0.000046	09/30/20 17:36	
Boron	mg/L	ND	0.10	0.0052	09/30/20 17:36	
Cadmium	mg/L	ND	0.0025	0.00012	09/30/20 17:36	
Chromium	mg/L	ND	0.010	0.00055	09/30/20 17:36	
Cobalt	mg/L	ND	0.0050	0.00038	09/30/20 17:36	
Lead	mg/L	ND	0.0050	0.000036	09/30/20 17:36	
Lithium	mg/L	ND	0.030	0.00081	09/30/20 17:36	
Molybdenum	mg/L	ND	0.010	0.00069	09/30/20 17:36	
Selenium	mg/L	ND	0.010	0.0016	09/30/20 17:36	
Thallium	mg/L	ND	0.0010	0.00014	09/30/20 17:36	

LABORATORY CONTROL SAMPLE: 3018363

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.095	95	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.095	95	80-120	
Beryllium	mg/L	0.1	0.10	104	80-120	
Boron	mg/L	1	1.1	106	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.095	95	80-120	
Lead	mg/L	0.1	0.098	98	80-120	
Lithium	mg/L	0.1	0.11	106	80-120	
Molybdenum	mg/L	0.1	0.097	97	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.096	96	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018364 3018365

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92496941005	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.096	0.099	96	99	75-125	3	20		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	99	75-125	1	20		

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

Parameter	Units	3018364		3018365		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92496941005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	0.036	0.1	0.1	0.13	0.14	93	99	75-125	5	20	
Beryllium	mg/L	0.00017J	0.1	0.1	0.093	0.094	93	94	75-125	1	20	
Boron	mg/L	4.2	1	1	5.1	5.2	93	101	75-125	2	20	
Cadmium	mg/L	0.00017J	0.1	0.1	0.098	0.097	97	97	75-125	0	20	
Chromium	mg/L	ND	0.1	0.1	0.097	0.10	97	101	75-125	5	20	
Cobalt	mg/L	0.013	0.1	0.1	0.11	0.11	92	98	75-125	5	20	
Lead	mg/L	0.00011J	0.1	0.1	0.096	0.097	95	97	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.095	0.095	94	95	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	100	100	75-125	0	20	
Selenium	mg/L	ND	0.1	0.1	0.096	0.097	95	96	75-125	1	20	
Thallium	mg/L	ND	0.1	0.1	0.095	0.097	95	97	75-125	2	20	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 569774 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92497149004

METHOD BLANK: 3018372 Matrix: Water
Associated Lab Samples: 92497149004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/01/20 09:53	
Arsenic	mg/L	ND	0.0050	0.00078	10/01/20 09:53	
Barium	mg/L	ND	0.010	0.00071	10/01/20 09:53	
Beryllium	mg/L	ND	0.0030	0.000046	10/01/20 09:53	
Boron	mg/L	ND	0.10	0.0052	10/01/20 09:53	
Cadmium	mg/L	ND	0.0025	0.00012	10/01/20 09:53	
Chromium	mg/L	ND	0.010	0.00055	10/01/20 09:53	
Cobalt	mg/L	ND	0.0050	0.00038	10/01/20 09:53	
Lead	mg/L	ND	0.0050	0.000036	10/01/20 09:53	
Lithium	mg/L	ND	0.030	0.00081	10/01/20 09:53	
Molybdenum	mg/L	ND	0.010	0.00069	10/01/20 09:53	
Selenium	mg/L	ND	0.010	0.0016	10/01/20 09:53	
Thallium	mg/L	ND	0.0010	0.00014	10/01/20 09:53	

LABORATORY CONTROL SAMPLE: 3018373

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	0.097	97	80-120	
Barium	mg/L	0.1	0.10	101	80-120	
Beryllium	mg/L	0.1	0.093	93	80-120	
Boron	mg/L	1	0.91	91	80-120	
Cadmium	mg/L	0.1	0.095	95	80-120	
Chromium	mg/L	0.1	0.092	92	80-120	
Cobalt	mg/L	0.1	0.092	92	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.092	92	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	
Selenium	mg/L	0.1	0.097	97	80-120	
Thallium	mg/L	0.1	0.095	95	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018374 3018375

Parameter	Units	MS Result	MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			MS Spike Conc.	MSD Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	0	20	
Arsenic	mg/L	ND	0.1	0.1	0.099	0.099	99	99	75-125	0	20	

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QUALITY CONTROL DATA

Project: YATES AP-2

Pace Project No.: 92497149

Parameter	Units	3018374		3018375		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497149004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Barium	mg/L	0.0039J	0.1	0.1	0.10	0.10	99	100	75-125	1	20		
Beryllium	mg/L	0.000059J	0.1	0.1	0.090	0.091	90	91	75-125	1	20		
Boron	mg/L	0.0073J	1	1	0.88	0.90	87	89	75-125	2	20		
Cadmium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.095	0.095	94	94	75-125	0	20		
Cobalt	mg/L	ND	0.1	0.1	0.095	0.095	95	95	75-125	0	20		
Lead	mg/L	0.00015J	0.1	0.1	0.093	0.094	92	94	75-125	1	20		
Lithium	mg/L	0.013J	0.1	0.1	0.10	0.10	91	91	75-125	0	20		
Molybdenum	mg/L	0.010	0.1	0.1	0.11	0.11	96	97	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.099	0.096	98	95	75-125	3	20		
Thallium	mg/L	0.00016J	0.1	0.1	0.094	0.095	94	95	75-125	1	20		

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 570092 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92497149005, 92497149006, 92497149007, 92497149008, 92497149009, 92497149010, 92497149011, 92497149012, 92497149013, 92497149014

METHOD BLANK: 3020066 Matrix: Water
Associated Lab Samples: 92497149005, 92497149006, 92497149007, 92497149008, 92497149009, 92497149010, 92497149011, 92497149012, 92497149013, 92497149014

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/05/20 14:57	
Arsenic	mg/L	ND	0.0050	0.00078	10/05/20 14:57	
Barium	mg/L	ND	0.010	0.00071	10/05/20 14:57	
Beryllium	mg/L	ND	0.0030	0.000046	10/05/20 14:57	
Boron	mg/L	ND	0.10	0.0052	10/05/20 14:57	
Cadmium	mg/L	ND	0.0025	0.00012	10/05/20 14:57	
Chromium	mg/L	ND	0.010	0.00055	10/05/20 14:57	
Cobalt	mg/L	ND	0.0050	0.00038	10/05/20 14:57	
Lead	mg/L	ND	0.0050	0.000036	10/05/20 14:57	
Lithium	mg/L	ND	0.030	0.00081	10/05/20 14:57	
Molybdenum	mg/L	ND	0.010	0.00069	10/05/20 14:57	
Selenium	mg/L	ND	0.010	0.0016	10/05/20 14:57	
Thallium	mg/L	ND	0.0010	0.00014	10/05/20 14:57	

LABORATORY CONTROL SAMPLE: 3020067

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.097	97	80-120	
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.097	97	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lead	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.095	95	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	
Thallium	mg/L	0.1	0.097	97	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020068 3020069

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497141019	Spike Conc.	Spike Conc.	MS Result								
Antimony	mg/L	ND	0.1	0.1	0.096	0.098	96	98	75-125	2	20		

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QUALITY CONTROL DATA

Project: YATES AP-2

Pace Project No.: 92497149

Parameter	Units	3020068		3020069		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		92497141019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Arsenic	mg/L	ND	0.1	0.1	0.094	0.097	94	97	75-125	3	20		
Barium	mg/L	0.016	0.1	0.1	0.11	0.11	94	96	75-125	2	20		
Beryllium	mg/L	0.0020J	0.1	0.1	0.096	0.098	94	96	75-125	2	20		
Boron	mg/L	6.0	1	1	7.0	7.2	98	113	75-125	2	20		
Cadmium	mg/L	0.00014J	0.1	0.1	0.097	0.098	96	97	75-125	1	20		
Chromium	mg/L	ND	0.1	0.1	0.098	0.10	98	103	75-125	5	20		
Cobalt	mg/L	ND	0.1	0.1	0.095	0.10	95	100	75-125	5	20		
Lead	mg/L	ND	0.1	0.1	0.092	0.095	92	95	75-125	3	20		
Lithium	mg/L	0.0025J	0.1	0.1	0.097	0.099	94	97	75-125	3	20		
Molybdenum	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20		
Selenium	mg/L	0.046	0.1	0.1	0.14	0.15	99	100	75-125	1	20		
Thallium	mg/L	ND	0.1	0.1	0.093	0.096	93	96	75-125	3	20		

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 570307 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020 MET
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92497149015, 92497149016, 92497149017, 92497149018, 92497149019, 92497149020

METHOD BLANK: 3020982 Matrix: Water
Associated Lab Samples: 92497149015, 92497149016, 92497149017, 92497149018, 92497149019, 92497149020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00028	10/02/20 17:11	
Arsenic	mg/L	ND	0.0050	0.00078	10/02/20 17:11	
Barium	mg/L	ND	0.010	0.00071	10/02/20 17:11	
Beryllium	mg/L	ND	0.0030	0.000046	10/02/20 17:11	
Boron	mg/L	ND	0.10	0.0052	10/02/20 17:11	
Cadmium	mg/L	ND	0.0025	0.00012	10/02/20 17:11	
Chromium	mg/L	ND	0.010	0.00055	10/02/20 17:11	
Cobalt	mg/L	ND	0.0050	0.00038	10/02/20 17:11	
Lead	mg/L	ND	0.0050	0.000036	10/02/20 17:11	
Lithium	mg/L	ND	0.030	0.00081	10/02/20 17:11	
Molybdenum	mg/L	ND	0.010	0.00069	10/02/20 17:11	
Selenium	mg/L	ND	0.010	0.0016	10/02/20 17:11	
Thallium	mg/L	ND	0.0010	0.00014	10/02/20 17:11	

LABORATORY CONTROL SAMPLE: 3020983

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.10	100	80-120	
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	1.0	101	80-120	
Cadmium	mg/L	0.1	0.097	97	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.10	100	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.099	99	80-120	
Selenium	mg/L	0.1	0.095	95	80-120	
Thallium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3020984 3020985

Parameter	Units	MS		MSD		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		92497149015	Result	Spike Conc.	Spike Conc.								
Antimony	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Arsenic	mg/L	ND	0.1	0.1	0.098	0.099	98	98	75-125	0	20		

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QUALITY CONTROL DATA

Project: YATES AP-2

Pace Project No.: 92497149

Parameter	Units	3020984		3020985		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		92497149015 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Barium	mg/L	0.079	0.1	0.1	0.18	0.18	101	99	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.096	0.096	96	96	75-125	0	20	
Boron	mg/L	2.1	1	1	3.1	3.1	99	97	75-125	1	20	
Cadmium	mg/L	0.00027J	0.1	0.1	0.098	0.098	98	98	75-125	0	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	101	100	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.097	0.097	97	97	75-125	0	20	
Lithium	mg/L	0.0065J	0.1	0.1	0.10	0.10	97	97	75-125	0	20	
Molybdenum	mg/L	0.0012J	0.1	0.1	0.10	0.10	101	100	75-125	1	20	
Selenium	mg/L	ND	0.1	0.1	0.095	0.094	95	94	75-125	0	20	
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	0	20	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 569386	Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011	Analysis Description: 2540C Total Dissolved Solids
	Laboratory: Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92497149001

METHOD BLANK: 3016890 Matrix: Water
Associated Lab Samples: 92497149001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/28/20 14:18	

LABORATORY CONTROL SAMPLE: 3016891

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	429	107	84-108	

SAMPLE DUPLICATE: 3016892

Parameter	Units	92497125001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	260	295	13	10	D6

SAMPLE DUPLICATE: 3016893

Parameter	Units	92497141008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	59.0	31	10	D6

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 569431 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92497149002, 92497149003, 92497149004, 92497149005

METHOD BLANK: 3017032 Matrix: Water
Associated Lab Samples: 92497149002, 92497149003, 92497149004, 92497149005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	10.0	10.0	10.0	09/28/20 17:06	

LABORATORY CONTROL SAMPLE: 3017033

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	427	107	84-108	

SAMPLE DUPLICATE: 3017034

Parameter	Units	92497149002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	108	116	7	10	

SAMPLE DUPLICATE: 3017035

Parameter	Units	92497149005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	157	163	4	10	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch:	569876	Analysis Method:	SM 2450C-2011
QC Batch Method:	SM 2450C-2011	Analysis Description:	2540C Total Dissolved Solids
		Laboratory:	Pace Analytical Services - Peachtree Corners, GA

Associated Lab Samples: 92497149006, 92497149007, 92497149008, 92497149009, 92497149010, 92497149011, 92497149012, 92497149013, 92497149014, 92497149015, 92497149016

METHOD BLANK: 3018866 Matrix: Water
Associated Lab Samples: 92497149006, 92497149007, 92497149008, 92497149009, 92497149010, 92497149011, 92497149012, 92497149013, 92497149014, 92497149015, 92497149016

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	09/30/20 09:30	

LABORATORY CONTROL SAMPLE: 3018867

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	403	101	84-108	

SAMPLE DUPLICATE: 3018868

Parameter	Units	92497125003 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	124	118	5	10	

SAMPLE DUPLICATE: 3018869

Parameter	Units	92497149013 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	ND		10	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 570219 Analysis Method: SM 2450C-2011
QC Batch Method: SM 2450C-2011 Analysis Description: 2540C Total Dissolved Solids
Laboratory: Pace Analytical Services - Peachtree Corners, GA
Associated Lab Samples: 92497149017, 92497149018, 92497149019, 92497149020

METHOD BLANK: 3020458 Matrix: Water
Associated Lab Samples: 92497149017, 92497149018, 92497149019, 92497149020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	ND	10.0	10.0	10/01/20 15:22	

LABORATORY CONTROL SAMPLE: 3020459

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	412	103	84-108	

SAMPLE DUPLICATE: 3020460

Parameter	Units	92497125005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	134	142	6	10	

SAMPLE DUPLICATE: 3020461

Parameter	Units	92497146006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	878	918	4	10	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 569512 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92497149001, 92497149002, 92497149003, 92497149004

METHOD BLANK: 3017392 Matrix: Water
Associated Lab Samples: 92497149001, 92497149002, 92497149003, 92497149004

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/29/20 01:37	
Fluoride	mg/L	ND	0.10	0.050	09/29/20 01:37	
Sulfate	mg/L	ND	1.0	0.50	09/29/20 01:37	

LABORATORY CONTROL SAMPLE: 3017393

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.5	107	90-110	
Fluoride	mg/L	2.5	2.7	110	90-110	
Sulfate	mg/L	50	52.8	106	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017394 3017395

Parameter	Units	92497151006		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	ND	50	50	51.6	51.4	103	103	90-110	0	10		
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	103	103	90-110	0	10		
Sulfate	mg/L	ND	50	50	50.5	50.3	101	100	90-110	1	10		

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3017396 3017397

Parameter	Units	92497151007		MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result						
Chloride	mg/L	ND	50	50	57.6	51.5	115	103	90-110	11	10	M1,R1	
Fluoride	mg/L	ND	2.5	2.5	2.9	2.6	117	104	90-110	12	10	M1,R1	
Sulfate	mg/L	ND	50	50	58.0	50.3	116	101	90-110	14	10	M1,R1	

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QUALITY CONTROL DATA

Project: YATES AP-2
Pace Project No.: 92497149

QC Batch: 569830 Analysis Method: EPA 300.0 Rev 2.1 1993
QC Batch Method: EPA 300.0 Rev 2.1 1993 Analysis Description: 300.0 IC Anions
Laboratory: Pace Analytical Services - Asheville
Associated Lab Samples: 92497149005, 92497149006, 92497149007, 92497149008, 92497149009, 92497149010, 92497149011, 92497149012, 92497149013, 92497149014, 92497149015, 92497149016, 92497149017, 92497149018, 92497149019, 92497149020

METHOD BLANK: 3018757 Matrix: Water
Associated Lab Samples: 92497149005, 92497149006, 92497149007, 92497149008, 92497149009, 92497149010, 92497149011, 92497149012, 92497149013, 92497149014, 92497149015, 92497149016, 92497149017, 92497149018, 92497149019, 92497149020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	09/30/20 03:36	
Fluoride	mg/L	ND	0.10	0.050	09/30/20 03:36	
Sulfate	mg/L	ND	1.0	0.50	09/30/20 03:36	

LABORATORY CONTROL SAMPLE: 3018758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	53.0	106	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	52.7	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018759 3018760

Parameter	Units	92497149012 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	ND	50	50	51.5	51.6	103	103	90-110	0	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	102	103	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.5	50.6	101	101	90-110	0	10	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 3018761 3018762

Parameter	Units	92497149013 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result							
Chloride	mg/L	ND	50	50	51.9	51.6	104	103	90-110	1	10	
Fluoride	mg/L	ND	2.5	2.5	2.6	2.6	104	103	90-110	1	10	
Sulfate	mg/L	ND	50	50	50.9	50.6	102	101	90-110	1	10	

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QUALIFIERS

Project: YATES AP-2

Pace Project No.: 92497149

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

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

TNI - The NELAC Institute.

ANALYTE QUALIFIERS

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

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

R1 RPD value was outside control limits.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2
Pace Project No.: 92497149

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92497149001	YGWA-1I (092320)				
92497149002	YGWA-1D (092320)				
92497149003	YGWA-2I (092320)				
92497149004	YGWA-3I (092320)				
92497149005	YGWA-3D (092320)				
92497149006	YGWA-30I (092420)				
92497149007	YGWA-26S (092420)				
92497149008	YGWA-26I (092420)				
92497149010	YGWC-27S (092420)				
92497149011	YGWC-27I (092420)				
92497149014	YGWC-28S (092420)				
92497149015	YGWC-28I (092420)				
92497149016	YGWC-29I (092420)				
92497149018	YGWA-14S (092520)				
92497149001	YGWA-1I (092320)	EPA 3010A	569461	EPA 6010D	569503
92497149002	YGWA-1D (092320)	EPA 3010A	569461	EPA 6010D	569503
92497149003	YGWA-2I (092320)	EPA 3010A	569461	EPA 6010D	569503
92497149004	YGWA-3I (092320)	EPA 3010A	569461	EPA 6010D	569503
92497149005	YGWA-3D (092320)	EPA 3010A	570091	EPA 6010D	570131
92497149006	YGWA-30I (092420)	EPA 3010A	570091	EPA 6010D	570131
92497149007	YGWA-26S (092420)	EPA 3010A	570091	EPA 6010D	570131
92497149008	YGWA-26I (092420)	EPA 3010A	570091	EPA 6010D	570131
92497149009	DUP-02 (092420)	EPA 3010A	570091	EPA 6010D	570131
92497149010	YGWC-27S (092420)	EPA 3010A	570301	EPA 6010D	570373
92497149011	YGWC-27I (092420)	EPA 3010A	570301	EPA 6010D	570373
92497149012	FB-01 (092420)	EPA 3010A	570301	EPA 6010D	570373
92497149013	EB-01 (092520)	EPA 3010A	570301	EPA 6010D	570373
92497149014	YGWC-28S (092420)	EPA 3010A	570301	EPA 6010D	570373
92497149015	YGWC-28I (092420)	EPA 3010A	570301	EPA 6010D	570373
92497149016	YGWC-29I (092420)	EPA 3010A	570301	EPA 6010D	570373
92497149017	EB-02 (092520)	EPA 3010A	570301	EPA 6010D	570373
92497149018	YGWA-14S (092520)	EPA 3010A	570301	EPA 6010D	570373
92497149019	DUP-01 (092520)	EPA 3010A	570301	EPA 6010D	570373
92497149020	FB-02 (092520)	EPA 3010A	570301	EPA 6010D	570373
92497149001	YGWA-1I (092320)	EPA 3005A	569772	EPA 6020B	569809
92497149002	YGWA-1D (092320)	EPA 3005A	569772	EPA 6020B	569809
92497149003	YGWA-2I (092320)	EPA 3005A	569772	EPA 6020B	569809
92497149004	YGWA-3I (092320)	EPA 3005A	569774	EPA 6020B	569814
92497149005	YGWA-3D (092320)	EPA 3005A	570092	EPA 6020B	570132
92497149006	YGWA-30I (092420)	EPA 3005A	570092	EPA 6020B	570132
92497149007	YGWA-26S (092420)	EPA 3005A	570092	EPA 6020B	570132
92497149008	YGWA-26I (092420)	EPA 3005A	570092	EPA 6020B	570132
92497149009	DUP-02 (092420)	EPA 3005A	570092	EPA 6020B	570132
92497149010	YGWC-27S (092420)	EPA 3005A	570092	EPA 6020B	570132
92497149011	YGWC-27I (092420)	EPA 3005A	570092	EPA 6020B	570132
92497149012	FB-01 (092420)	EPA 3005A	570092	EPA 6020B	570132

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2
Pace Project No.: 92497149

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92497149013	EB-01 (092520)	EPA 3005A	570092	EPA 6020B	570132
92497149014	YGWC-28S (092420)	EPA 3005A	570092	EPA 6020B	570132
92497149015	YGWC-28I (092420)	EPA 3005A	570307	EPA 6020B	570372
92497149016	YGWC-29I (092420)	EPA 3005A	570307	EPA 6020B	570372
92497149017	EB-02 (092520)	EPA 3005A	570307	EPA 6020B	570372
92497149018	YGWA-14S (092520)	EPA 3005A	570307	EPA 6020B	570372
92497149019	DUP-01 (092520)	EPA 3005A	570307	EPA 6020B	570372
92497149020	FB-02 (092520)	EPA 3005A	570307	EPA 6020B	570372
92497149001	YGWA-1I (092320)	SM 2450C-2011	569386		
92497149002	YGWA-1D (092320)	SM 2450C-2011	569431		
92497149003	YGWA-2I (092320)	SM 2450C-2011	569431		
92497149004	YGWA-3I (092320)	SM 2450C-2011	569431		
92497149005	YGWA-3D (092320)	SM 2450C-2011	569431		
92497149006	YGWA-30I (092420)	SM 2450C-2011	569876		
92497149007	YGWA-26S (092420)	SM 2450C-2011	569876		
92497149008	YGWA-26I (092420)	SM 2450C-2011	569876		
92497149009	DUP-02 (092420)	SM 2450C-2011	569876		
92497149010	YGWC-27S (092420)	SM 2450C-2011	569876		
92497149011	YGWC-27I (092420)	SM 2450C-2011	569876		
92497149012	FB-01 (092420)	SM 2450C-2011	569876		
92497149013	EB-01 (092520)	SM 2450C-2011	569876		
92497149014	YGWC-28S (092420)	SM 2450C-2011	569876		
92497149015	YGWC-28I (092420)	SM 2450C-2011	569876		
92497149016	YGWC-29I (092420)	SM 2450C-2011	569876		
92497149017	EB-02 (092520)	SM 2450C-2011	570219		
92497149018	YGWA-14S (092520)	SM 2450C-2011	570219		
92497149019	DUP-01 (092520)	SM 2450C-2011	570219		
92497149020	FB-02 (092520)	SM 2450C-2011	570219		
92497149001	YGWA-1I (092320)	EPA 300.0 Rev 2.1 1993	569512		
92497149002	YGWA-1D (092320)	EPA 300.0 Rev 2.1 1993	569512		
92497149003	YGWA-2I (092320)	EPA 300.0 Rev 2.1 1993	569512		
92497149004	YGWA-3I (092320)	EPA 300.0 Rev 2.1 1993	569512		
92497149005	YGWA-3D (092320)	EPA 300.0 Rev 2.1 1993	569830		
92497149006	YGWA-30I (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149007	YGWA-26S (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149008	YGWA-26I (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149009	DUP-02 (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149010	YGWC-27S (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149011	YGWC-27I (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149012	FB-01 (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149013	EB-01 (092520)	EPA 300.0 Rev 2.1 1993	569830		
92497149014	YGWC-28S (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149015	YGWC-28I (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149016	YGWC-29I (092420)	EPA 300.0 Rev 2.1 1993	569830		
92497149017	EB-02 (092520)	EPA 300.0 Rev 2.1 1993	569830		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2

Pace Project No.: 92497149

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92497149018	YGWA-14S (092520)	EPA 300.0 Rev 2.1 1993	569830		
92497149019	DUP-01 (092520)	EPA 300.0 Rev 2.1 1993	569830		
92497149020	FB-02 (092520)	EPA 300.0 Rev 2.1 1993	569830		

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Sample Condition Upon Receipt

WO#: 92497149

Client Name: GA Power



Courier: Fed Ex UPS USPS Client Commercial Pace Oil

Tracking #: _____

Proj. Name: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 230 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 3.4°C Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 9/23/2004

Temp should be above freezing to 8°C Comments: _____

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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



Document Name:
Bottle Identification Form (BIF)
Document No.:
F-CAR-CS-043-Rev.00

Document Issued: March 14, 2019
Page 1 of 1
Issuing Authority:
Face Carolinas Quality Office

Project # **WO# : 92497149**

PM: KLH1 Due Date: 10/07/20
CLIENT: GA-GA Power

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

• Exceptions: VOA, Coliform, TOC, Oil and Grease, DRO/BO15 (water) DOC, LLHg

• Bottom half of box is to list number of bottle

Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#	Matrix	Item#
	BP4U-125 mL Plastic Unpreserved (N/A) (C-)		BP3U-250 mL Plastic Unpreserved (N/A)		BP2U-500 mL Plastic Unpreserved (N/A)		BP1U-1 liter Plastic Unpreserved (N/A)		BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)		BP3H-250 mL Plastic HNO3 (pH < 2)		BP4Z-125 mL Plastic ZN Acetate & NaOH (>9)
	BP4C-125 mL Plastic NaOH (pH > 12) (C-)		WG9U-Wide-mouthed Glass jar Unpreserved		AG1U-1 liter Amber Unpreserved (N/A) (C-)		AG1H-1 liter Amber HCl (pH < 2)		AG3U-250 mL Amber Unpreserved (N/A) (C-)		AG1S-1 liter Amber H2SO4 (pH < 2)		AG3S-250 mL Amber H2SO4 (pH < 2)
	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)		DG9H-40 mL VOA HCl (N/A)		VG3T-40 mL VOA Na2S2O3 (N/A)		VG9U-40 mL VOA Ump (N/A)		DG9P-40 mL VOA H3PO4 (N/A)		VOAK (6 vials per kit)-VPH/Gas kit (N/A)		VJGK (3 vials per kit)-VPH/Gas kit (N/A)
	SP5T-125 mL Sterile Plastic (N/A - lab)		SP2T-250 mL Sterile Plastic (N/A - lab)										
	BP3A-250 mL Plastic (NH2)2SO4 (p. 3-9.7)		AGDU-100 mL Amber Unpreserved vials (N/A)		VG6U-20 mL Swirlbottom vials (N/A)								

BPIN
KRS

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A

Client Information:
 Year: Georgia Power
 Address: 1070 Bridge Mill Ave
 City: Atlanta, GA 30114

Report To: Betty Stever
 Copy To:

Project Name: Years AP-2
 Project #: 10840

Requested Analytical Method (Y/N):
 Residual Chlorine (Y/N):

Section B

Regulated Project Information:
 Report To: Betty Stever
 Company Name:
 Address:
 City: Atlanta, GA 30114

Purchase Order #:
 Project Name: Years AP-2
 Project #:

Requested Analytical Method (Y/N):
 Residual Chlorine (Y/N):

Section C

Invoice Information:
 Application:
 Company Name:
 Address:
 City: Atlanta, GA 30114

Port Project Manager: Kevin Threlkeld
 Port Office: 10840

Requested Analytical Method (Y/N):
 Residual Chlorine (Y/N):

ITEM #	DESCRIPTION	WT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Analysis Test	Residual Chlorine (Y/N)		
			START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol			Other	TDS
1	DUP	WT															
2	FIELD-BOTTLE	WT															
3	FIELD-BOTTLE	WT															
4	YGWA-11 (092322)	WT	1/13	0950		5	Y										PH 6.01
5	YGWA-10 (092320)	WT	1/13	1045		5	Y										PH 7.15
6	YGWA-21 (092326)	WT	1/13	1245		5	Y										PH 7.22
7	YGWA-21 (092325)	WT	1/13	1445		5	Y										PH 7.37
8	YGWA-10	WT															
9	YGWA-10	WT															
10	YGWA-10	WT															
11	YGWA-10	WT															
12	YGWA-10	WT															

REQUIREMENTS BY APPLICATION

DATE: 1/13/10
 TIME: 1740
 ACCEPTED BY: [Signature]
 DATE: 1/13/10
 TIME: 1740

ANALYST NAME AND SIGNATURE
 ANALYST NAME: [Signature]
 DATE: 1/13/10

PRINT NAME OF SAMPLER
 PRINT NAME OF SAMPLER: [Signature]
 DATE: 1/13/10

TEMP In C

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact: (Y/N)



Client Information:
 Agency: Georgia Power
 Address: 1070 Bridge Mill Ave
 Marietta, GA 30114

Reported Project Information:
 Report To: Becky Stever
 Copy To:

Invoice Information:
 Attention:
 Company Name:
 Address:
 PACE Analytical
 PACE Project Manager: kevin.henning@paceanalytical.com
 PACE Profile #: 10840

Page: 1 of 2

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

ITEM #	SAMPLE ID One Character per box. (A-Z, 0-9 / -)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test	Residual Chlorine (Y/N)
		START DATE	END DATE					
1	YGJA-3D (092320)	9/13/15	9/13/15	5	Unpreserved		TDS Anions App III & IV Metals RAD 8316/8320	624K/114g PH = 7.57
2	YGLJA-30I (092420)	9/24/15	9/24/15	5	Unpreserved			PH = 5.17
3	YGLJC-26S (092425)	9/29/15	9/29/15	5	Unpreserved			PH = 5.1%
4	YGLJC-26I (092425)	9/29/15	9/29/15	5	Unpreserved			PH = 5.8%
5	D5R-02 (092420)	9/29/15	9/29/15	5	Unpreserved			PH = 6.36
6	YGLJC-27S (092420)	9/24/15	9/24/15	5	Unpreserved			PH = 6.36
7	YGLJC-27I (092420)	9/24/15	9/24/15	5	Unpreserved			PH = 6.36
8	YG-01 (092420)	9/24/15	9/24/15	5	Unpreserved			PH = 6.36
9	EG-01 (092520)	9/15/15	9/15/15	5	Unpreserved			PH = 6.36

ANALYTICAL COMMENTS	RECEIVED BY / DATE	DATE	TIME	ACCEPTED BY / ANALYST	DATE	TIME
Temp 2 or 2	Becky Stever	9/15	10:20	Kevin Henning	9/15	10:20
Temp 2 or 2	Becky Stever	9/24	15:03	Kevin Henning	9/24	15:03

DATE SHIPPED: 09/25/15

TEMP IN C

Received on Ice? (Y/N)

Cooler Sealed? (Y/N)

Cooler On? (Y/N)

Samples Intact? (Y/N)



Section A
 Client Information:

Company Name: Georgia Power
 Address: 1070 Bridge Mill Ave
 Location: GA 30114
 Phone: (770) 934-6528
 Fax: _____

Section B
 Requested Project Information:

Report To: Beary Stever
 Copy To: _____
 Purchase Order #: _____
 Project Name: Yates AP-2
 Project #:

Section C
 Invoice Information:

Company Name: _____
 Address: _____
 Pace Quote #: _____
 Pace Project Manager: kevin.henry@pacean.com
 Pace Profile #: 10240

CHAIN-OF-CUSTODY / Analytical Request Document

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

ITEM # 13 14 15 16 17 18 19 20 21 22 23 24

ITEM #	MATERIAL	SOURCE	WT	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	PRESERVATIVES							ANALYSES TEST	TDS	ANIONS	APP III & IV METALS	RAD 9315/9320	RESIDUAL CHLORINE (Y/N)	REMARKS						
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3	Methanol								Other					
13	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
14	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
15	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
16	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
17	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
18	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
19	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
20	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
21	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
22	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
23	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								
24	YGMWC-28	109242020	WT 6	9/14/20	9/14/20	5/1	1												X								

RECORDED BY: DATE: TIME: 9/25/2020 18:03

SAMPLER NAME AND SIGNATURE: KATHY POTERVICZ

PRINT NAME OF SAMPLER: KATHY POTERVICZ
 SIGNATURE OF SAMPLER: *Kathy Potervicz*
 DATE SIGNED: 9/25/2020

TEMP In C: _____
 Received on (ice) (Y/N): _____
 Custody Sealed: (Y/N): _____
 Samples Intact: (Y/N): _____

November 05, 2020

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

RE: Project: YATES AP-2 RADS
Pace Project No.: 92497111

Dear Ms. Petty:

Enclosed are the analytical results for sample(s) received by the laboratory between September 23, 2020 and September 25, 2020. 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 - This report replaces the October 24, 2020 report. This project was revised on November 5, 2020 as initial report was finalized in error. (Lab city, State)

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

Sincerely,



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

Enclosures

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



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Pace Analytical Services Pennsylvania

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

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab ID	Sample ID	Matrix	Date Collected	Date Received
92497111001	YGWA-1I (092320)	Water	09/23/20 09:50	09/23/20 17:40
92497111002	YGWA-1D (092320)	Water	09/23/20 10:45	09/23/20 17:40
92497111003	YGWA-2I (092320)	Water	09/23/20 12:45	09/23/20 17:40
92497111004	YGWA-3I (092320)	Water	09/23/20 14:45	09/23/20 17:40
92497111005	YGWA-3D (092320)	Water	09/23/20 15:55	09/25/20 18:03
92497111006	YGWA-30I (092420)	Water	09/24/20 09:45	09/25/20 18:03
92497111007	YGWC-26S (092420)	Water	09/24/20 10:35	09/25/20 18:03
92497111008	YGWC-26I (092420)	Water	09/24/20 11:20	09/25/20 18:03
92497111009	DUP-02 (092420)	Water	09/24/20 00:00	09/25/20 18:03
92497111010	YGWC-27S (092420)	Water	09/24/20 13:55	09/25/20 18:03
92497111011	YGWC-27I (092420)	Water	09/24/20 14:45	09/25/20 18:03
92497111012	FB-01 (092420)	Water	09/24/20 14:50	09/25/20 18:03
92497111013	EB-01 (092520)	Water	09/25/20 12:12	09/25/20 18:03
92497111014	YGWC-28S (092420)	Water	09/24/20 14:36	09/25/20 18:03
92497111015	YGWC-28I (092420)	Water	09/24/20 15:39	09/25/20 18:03
92497111016	YGWC-29I (092420)	Water	09/24/20 16:37	09/25/20 18:03
92497111017	EB-02 (092520)	Water	09/25/20 12:00	09/25/20 18:03
92497111018	YGWA-14S (092520)	Water	09/25/20 09:45	09/25/20 18:03
92497111019	DUP-01 (092520)	Water	09/25/20 00:00	09/25/20 18:03
92497111020	FB-02 (092520)	Water	09/25/20 09:30	09/25/20 18:03

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
92497111001	YGWA-1I (092320)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92497111002	YGWA-1D (092320)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92497111003	YGWA-2I (092320)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92497111004	YGWA-3I (092320)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	JAL	1	PASI-PA
92497111005	YGWA-3D (092320)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497111006	YGWA-30I (092420)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497111007	YGWC-26S (092420)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497111008	YGWC-26I (092420)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497111009	DUP-02 (092420)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497111010	YGWC-27S (092420)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497111011	YGWC-27I (092420)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497111012	FB-01 (092420)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
92497111013	EB-01 (092520)	EPA 9315	LAL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
9249711014	YGWC-28S (092420)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
9249711015	YGWC-28I (092420)	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
9249711016	YGWC-29I (092420)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
9249711017	EB-02 (092520)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
9249711018	YGWA-14S (092520)	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
9249711019	DUP-01 (092520)	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
9249711020	FB-02 (092520)	EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA

PASI-PA = Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92497111001	YGWA-1I (092320)					
EPA 9315	Radium-226	0.00884 ± 0.220 (0.583) C:79% T:NA	pCi/L		10/08/20 08:56	
EPA 9320	Radium-228	-0.133 ± 0.516 (1.20) C:61% T:88%	pCi/L		10/12/20 11:40	
Total Radium Calculation	Total Radium	0.00884 ± 0.736 (1.78)	pCi/L		10/14/20 09:21	
92497111002	YGWA-1D (092320)					
EPA 9315	Radium-226	0.477 ± 0.308 (0.486) C:83% T:NA	pCi/L		10/08/20 08:56	
EPA 9320	Radium-228	0.872 ± 0.941 (1.98) C:55% T:82%	pCi/L		10/12/20 14:45	
Total Radium Calculation	Total Radium	1.35 ± 1.25 (2.47)	pCi/L		10/14/20 09:21	
92497111003	YGWA-2I (092320)					
EPA 9315	Radium-226	0.150 ± 0.196 (0.406) C:85% T:NA	pCi/L		10/08/20 08:56	
EPA 9320	Radium-228	0.415 ± 0.716 (1.56) C:63% T:86%	pCi/L		10/12/20 14:45	
Total Radium Calculation	Total Radium	0.565 ± 0.912 (1.97)	pCi/L		10/14/20 09:21	
92497111004	YGWA-3I (092320)					
EPA 9315	Radium-226	1.11 ± 0.443 (0.503) C:81% T:NA	pCi/L		10/08/20 08:56	
EPA 9320	Radium-228	0.0311 ± 0.850 (1.94) C:60% T:75%	pCi/L		10/12/20 14:45	
Total Radium Calculation	Total Radium	1.14 ± 1.29 (2.44)	pCi/L		10/14/20 09:21	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92497111005	YGWA-3D (092320)					
EPA 9315	Radium-226	1.21 ± 0.466 (0.576)	pCi/L		10/28/20 09:11	
EPA 9320	Radium-228	C:93% T:NA 2.93 ± 0.906 (1.21)	pCi/L		11/04/20 12:28	
Total Radium Calculation	Total Radium	C:63% T:81% 4.14 ± 1.37 (1.79)	pCi/L		11/05/20 09:25	
92497111006	YGWA-30I (092420)					
EPA 9315	Radium-226	0.151 ± 0.330 (0.770)	pCi/L		10/28/20 09:06	
EPA 9320	Radium-228	C:80% T:NA 0.533 ± 0.495 (1.01)	pCi/L		11/04/20 12:28	
Total Radium Calculation	Total Radium	C:66% T:85% 0.684 ± 0.825 (1.78)	pCi/L		11/05/20 09:25	
92497111007	YGWC-26S (092420)					
EPA 9315	Radium-226	0.00973 ± 0.307 (0.783)	pCi/L		10/28/20 07:29	
EPA 9320	Radium-228	C:86% T:NA 1.13 ± 0.617 (1.12)	pCi/L		11/04/20 12:28	
Total Radium Calculation	Total Radium	C:63% T:76% 1.14 ± 0.924 (1.90)	pCi/L		11/05/20 09:25	
92497111008	YGWC-26I (092420)					
EPA 9315	Radium-226	0.350 ± 0.271 (0.447)	pCi/L		10/28/20 08:46	
EPA 9320	Radium-228	C:83% T:NA 1.12 ± 0.610 (1.08)	pCi/L		11/04/20 12:28	
Total Radium Calculation	Total Radium	C:64% T:68% 1.47 ± 0.881 (1.53)	pCi/L		11/05/20 09:25	

REPORT OF LABORATORY ANALYSIS

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SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92497111009	DUP-02 (092420)					
EPA 9315	Radium-226	0.0988 ± 0.264 (0.633) C:83% T:NA	pCi/L		10/28/20 07:29	
EPA 9320	Radium-228	0.219 ± 0.382 (0.836) C:68% T:76%	pCi/L		11/04/20 12:28	
Total Radium Calculation	Total Radium	0.318 ± 0.646 (1.47)	pCi/L		11/05/20 09:25	
92497111010	YGWC-27S (092420)					
EPA 9315	Radium-226	0.404 ± 0.318 (0.591) C:94% T:NA	pCi/L		10/28/20 07:34	
EPA 9320	Radium-228	1.09 ± 0.528 (0.874) C:63% T:79%	pCi/L		11/04/20 12:28	
Total Radium Calculation	Total Radium	1.49 ± 0.846 (1.47)	pCi/L		11/05/20 09:25	
92497111011	YGWC-27I (092420)					
EPA 9315	Radium-226	2.69 ± 0.718 (0.505) C:90% T:NA	pCi/L		10/28/20 07:34	
EPA 9320	Radium-228	0.728 ± 0.521 (1.01) C:61% T:81%	pCi/L		11/04/20 12:28	
Total Radium Calculation	Total Radium	3.42 ± 1.24 (1.52)	pCi/L		11/05/20 09:25	
92497111012	FB-01 (092420)					
EPA 9315	Radium-226	-0.0155 ± 0.216 (0.583) C:94% T:NA	pCi/L		10/28/20 07:34	
EPA 9320	Radium-228	0.594 ± 0.458 (0.897) C:63% T:85%	pCi/L		11/04/20 12:29	
Total Radium Calculation	Total Radium	0.594 ± 0.674 (1.48)	pCi/L		11/05/20 09:25	

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SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92497111013	EB-01 (092520)					
EPA 9315	Radium-226	0.176 ± 0.241 (0.519) C:93% T:NA	pCi/L		10/28/20 07:34	
EPA 9320	Radium-228	0.997 ± 0.666 (1.31) C:64% T:84%	pCi/L		11/04/20 12:31	
Total Radium Calculation	Total Radium	1.17 ± 0.907 (1.83)	pCi/L		11/05/20 09:25	
92497111014	YGWC-28S (092420)					
EPA 9315	Radium-226	0.557 ± 0.325 (0.453) C:81% T:NA	pCi/L		10/28/20 07:34	
EPA 9320	Radium-228	0.689 ± 0.677 (1.41) C:61% T:83%	pCi/L		11/04/20 12:31	
Total Radium Calculation	Total Radium	1.25 ± 1.00 (1.86)	pCi/L		11/05/20 09:25	
92497111015	YGWC-28I (092420)					
EPA 9315	Radium-226	0.215 ± 0.336 (0.751) C:86% T:NA	pCi/L		10/28/20 07:34	
EPA 9320	Radium-228	0.255 ± 0.633 (1.40) C:63% T:80%	pCi/L		11/04/20 12:31	
Total Radium Calculation	Total Radium	0.470 ± 0.969 (2.15)	pCi/L		11/05/20 09:25	
92497111016	YGWC-29I (092420)					
EPA 9315	Radium-226	0.817 ± 0.360 (0.392) C:91% T:NA	pCi/L		10/28/20 11:45	
EPA 9320	Radium-228	0.620 ± 0.704 (1.49) C:63% T:81%	pCi/L		11/04/20 12:31	
Total Radium Calculation	Total Radium	1.44 ± 1.06 (1.88)	pCi/L		11/05/20 09:25	

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SUMMARY OF DETECTION

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab Sample ID Method	Client Sample ID Parameters	Result	Units	Report Limit	Analyzed	Qualifiers
92497111017	EB-02 (092520)					
EPA 9315	Radium-226	0.114 ± 0.192 (0.429) C:93% T:NA	pCi/L		10/28/20 07:37	
EPA 9320	Radium-228	0.634 ± 0.464 (0.910) C:70% T:74%	pCi/L		10/28/20 11:56	
Total Radium Calculation	Total Radium	0.748 ± 0.656 (1.34)	pCi/L		10/29/20 13:43	
92497111018	YGWA-14S (092520)					
EPA 9315	Radium-226	0.403 ± 0.286 (0.489) C:93% T:NA	pCi/L		10/28/20 07:56	
EPA 9320	Radium-228	0.200 ± 0.577 (1.29) C:65% T:82%	pCi/L		10/28/20 15:11	
Total Radium Calculation	Total Radium	0.603 ± 0.863 (1.78)	pCi/L		10/29/20 13:43	
92497111019	DUP-01 (092520)					
EPA 9315	Radium-226	0.0177 ± 0.147 (0.399) C:94% T:NA	pCi/L		10/28/20 07:37	
EPA 9320	Radium-228	0.759 ± 0.747 (1.54) C:67% T:67%	pCi/L		10/28/20 15:11	
Total Radium Calculation	Total Radium	0.777 ± 0.894 (1.94)	pCi/L		10/29/20 13:43	
92497111020	FB-02 (092520)					
EPA 9315	Radium-226	0.00645 ± 0.219 (0.581) C:84% T:NA	pCi/L		10/28/20 07:37	
EPA 9320	Radium-228	0.776 ± 0.604 (1.20) C:69% T:80%	pCi/L		10/28/20 15:11	
Total Radium Calculation	Total Radium	0.782 ± 0.823 (1.78)	pCi/L		10/29/20 13:43	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWA-1I (092320) **Lab ID: 92497111001** Collected: 09/23/20 09:50 Received: 09/23/20 17:40 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	0.00884 ± 0.220 (0.583) C:79% T:NA	pCi/L	10/08/20 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	-0.133 ± 0.516 (1.20) C:61% T:88%	pCi/L	10/12/20 11:40	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.00884 ± 0.736 (1.78)	pCi/L	10/14/20 09:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWA-1D (092320) **Lab ID: 92497111002** Collected: 09/23/20 10:45 Received: 09/23/20 17:40 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	0.477 ± 0.308 (0.486) C:83% T:NA	pCi/L	10/08/20 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.872 ± 0.941 (1.98) C:55% T:82%	pCi/L	10/12/20 14:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.35 ± 1.25 (2.47)	pCi/L	10/14/20 09:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWA-2I (092320) **Lab ID: 92497111003** Collected: 09/23/20 12:45 Received: 09/23/20 17:40 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	0.150 ± 0.196 (0.406) C:85% T:NA	pCi/L	10/08/20 08:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.415 ± 0.716 (1.56) C:63% T:86%	pCi/L	10/12/20 14:45	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.565 ± 0.912 (1.97)	pCi/L	10/14/20 09:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWA-3I (092320) **Lab ID: 92497111004** Collected: 09/23/20 14:45 Received: 09/23/20 17:40 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	1.11 ± 0.443 (0.503) C:81% T:NA	pCi/L	10/08/20 08:56	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.0311 ± 0.850 (1.94) C:60% T:75%	pCi/L	10/12/20 14:45	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.14 ± 1.29 (2.44)	pCi/L	10/14/20 09:21	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWA-3D (092320) **Lab ID: 92497111005** Collected: 09/23/20 15:55 Received: 09/25/20 18:03 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
	Pace Analytical Services - Greensburg					
Radium-226	EPA 9315	1.21 ± 0.466 (0.576) C:93% T:NA	pCi/L	10/28/20 09:11	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	2.93 ± 0.906 (1.21) C:63% T:81%	pCi/L	11/04/20 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	4.14 ± 1.37 (1.79)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWA-30I (092420) **Lab ID: 92497111006** Collected: 09/24/20 09:45 Received: 09/25/20 18:03 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	0.151 ± 0.330 (0.770) C:80% T:NA	pCi/L	10/28/20 09:06	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.533 ± 0.495 (1.01) C:66% T:85%	pCi/L	11/04/20 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.684 ± 0.825 (1.78)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWC-26S (092420) **Lab ID: 92497111007** Collected: 09/24/20 10:35 Received: 09/25/20 18:03 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	0.00973 ± 0.307 (0.783) C:86% T:NA	pCi/L	10/28/20 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.13 ± 0.617 (1.12) C:63% T:76%	pCi/L	11/04/20 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.14 ± 0.924 (1.90)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWC-26I (092420) **Lab ID: 92497111008** Collected: 09/24/20 11:20 Received: 09/25/20 18:03 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	0.350 ± 0.271 (0.447) C:83% T:NA	pCi/L	10/28/20 08:46	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.12 ± 0.610 (1.08) C:64% T:68%	pCi/L	11/04/20 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.47 ± 0.881 (1.53)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: DUP-02 (092420) **Lab ID: 92497111009** Collected: 09/24/20 00:00 Received: 09/25/20 18:03 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	0.0988 ± 0.264 (0.633) C:83% T:NA	pCi/L	10/28/20 07:29	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.219 ± 0.382 (0.836) C:68% T:76%	pCi/L	11/04/20 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.318 ± 0.646 (1.47)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWC-27S (092420) **Lab ID: 92497111010** Collected: 09/24/20 13:55 Received: 09/25/20 18:03 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	0.404 ± 0.318 (0.591) C:94% T:NA	pCi/L	10/28/20 07:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	1.09 ± 0.528 (0.874) C:63% T:79%	pCi/L	11/04/20 12:28	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.49 ± 0.846 (1.47)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWC-271 (092420) **Lab ID: 92497111011** Collected: 09/24/20 14:45 Received: 09/25/20 18:03 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	2.69 ± 0.718 (0.505) C:90% T:NA	pCi/L	10/28/20 07:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.728 ± 0.521 (1.01) C:61% T:81%	pCi/L	11/04/20 12:28	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	3.42 ± 1.24 (1.52)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: FB-01 (092420) **Lab ID: 92497111012** Collected: 09/24/20 14:50 Received: 09/25/20 18:03 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	-0.0155 ± 0.216 (0.583) C:94% T:NA	pCi/L	10/28/20 07:34	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.594 ± 0.458 (0.897) C:63% T:85%	pCi/L	11/04/20 12:29	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.594 ± 0.674 (1.48)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: EB-01 (092520) **Lab ID: 92497111013** Collected: 09/25/20 12:12 Received: 09/25/20 18:03 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	0.176 ± 0.241 (0.519) C:93% T:NA	pCi/L	10/28/20 07:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.997 ± 0.666 (1.31) C:64% T:84%	pCi/L	11/04/20 12:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.17 ± 0.907 (1.83)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWC-28S (092420) **Lab ID: 92497111014** Collected: 09/24/20 14:36 Received: 09/25/20 18:03 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	0.557 ± 0.325 (0.453) C:81% T:NA	pCi/L	10/28/20 07:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.689 ± 0.677 (1.41) C:61% T:83%	pCi/L	11/04/20 12:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	1.25 ± 1.00 (1.86)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWC-28I (092420) **Lab ID: 92497111015** Collected: 09/24/20 15:39 Received: 09/25/20 18:03 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	0.215 ± 0.336 (0.751) C:86% T:NA	pCi/L	10/28/20 07:34	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.255 ± 0.633 (1.40) C:63% T:80%	pCi/L	11/04/20 12:31	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.470 ± 0.969 (2.15)	pCi/L	11/05/20 09:25	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWC-29I (092420) **Lab ID: 92497111016** Collected: 09/24/20 16:37 Received: 09/25/20 18:03 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	0.817 ± 0.360 (0.392) C:91% T:NA	pCi/L	10/28/20 11:45	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.620 ± 0.704 (1.49) C:63% T:81%	pCi/L	11/04/20 12:31	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	1.44 ± 1.06 (1.88)	pCi/L	11/05/20 09:25	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Pace Analytical Services - Greensburg						
Radium-226	EPA 9315	0.114 ± 0.192 (0.429) C:93% T:NA	pCi/L	10/28/20 07:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.634 ± 0.464 (0.910) C:70% T:74%	pCi/L	10/28/20 11:56	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.748 ± 0.656 (1.34)	pCi/L	10/29/20 13:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: YGWA-14S (092520) **Lab ID: 92497111018** Collected: 09/25/20 09:45 Received: 09/25/20 18:03 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	0.403 ± 0.286 (0.489) C:93% T:NA	pCi/L	10/28/20 07:56	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.200 ± 0.577 (1.29) C:65% T:82%	pCi/L	10/28/20 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.603 ± 0.863 (1.78)	pCi/L	10/29/20 13:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: DUP-01 (092520) **Lab ID: 92497111019** Collected: 09/25/20 00:00 Received: 09/25/20 18:03 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	0.0177 ± 0.147 (0.399) C:94% T:NA	pCi/L	10/28/20 07:37	13982-63-3	
Pace Analytical Services - Greensburg						
Radium-228	EPA 9320	0.759 ± 0.747 (1.54) C:67% T:67%	pCi/L	10/28/20 15:11	15262-20-1	
Pace Analytical Services - Greensburg						
Total Radium	Total Radium Calculation	0.777 ± 0.894 (1.94)	pCi/L	10/29/20 13:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

Sample: FB-02 (092520) **Lab ID: 92497111020** Collected: 09/25/20 09:30 Received: 09/25/20 18:03 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	0.00645 ± 0.219 (0.581) C:84% T:NA	pCi/L	10/28/20 07:37	13982-63-3	
	Pace Analytical Services - Greensburg					
Radium-228	EPA 9320	0.776 ± 0.604 (1.20) C:69% T:80%	pCi/L	10/28/20 15:11	15262-20-1	
	Pace Analytical Services - Greensburg					
Total Radium	Total Radium Calculation	0.782 ± 0.823 (1.78)	pCi/L	10/29/20 13:43	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

QC Batch: 419079

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Laboratory: Pace Analytical Services - Greensburg

Associated Lab Samples: 92497111017, 92497111018, 92497111019, 92497111020

METHOD BLANK: 2026038

Matrix: Water

Associated Lab Samples: 92497111017, 92497111018, 92497111019, 92497111020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.00248 ± 0.179 (0.490) C:89% T:NA	pCi/L	10/28/20 07:37	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

QC Batch: 415887	Analysis Method: EPA 9320
QC Batch Method: EPA 9320	Analysis Description: 9320 Radium 228
	Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92497111001, 92497111002, 92497111003, 92497111004	

METHOD BLANK: 2010984	Matrix: Water
Associated Lab Samples: 92497111001, 92497111002, 92497111003, 92497111004	

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.452 ± 0.429 (0.882) C:72% T:83%	pCi/L	10/12/20 11:46	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

QC Batch:	419077	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92497111005, 92497111006, 92497111007, 92497111008, 92497111009, 92497111010, 92497111011, 92497111012, 92497111013, 92497111014, 92497111015, 92497111016

METHOD BLANK:	2026036	Matrix:	Water
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Associated Lab Samples: 92497111005, 92497111006, 92497111007, 92497111008, 92497111009, 92497111010, 92497111011, 92497111012, 92497111013, 92497111014, 92497111015, 92497111016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.0334 ± 0.189 (0.489) C:93% T:NA	pCi/L	10/28/20 09:04	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

QC Batch:	415889	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92497111001, 92497111002, 92497111003, 92497111004

METHOD BLANK: 2010986 Matrix: Water

Associated Lab Samples: 92497111001, 92497111002, 92497111003, 92497111004

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.196 ± 0.238 (0.495) C:89% T:NA	pCi/L	10/08/20 07:29	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

QC Batch: 419078 Analysis Method: EPA 9320
QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
Laboratory: Pace Analytical Services - Greensburg
Associated Lab Samples: 92497111005, 92497111006, 92497111007, 92497111008, 92497111009, 92497111010, 92497111011,
92497111012, 92497111013, 92497111014, 92497111015, 92497111016

METHOD BLANK: 2026037 Matrix: Water
Associated Lab Samples: 92497111005, 92497111006, 92497111007, 92497111008, 92497111009, 92497111010, 92497111011,
92497111012, 92497111013, 92497111014, 92497111015, 92497111016

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.576 ± 0.425 (0.831) C:71% T:86%	pCi/L	11/04/20 12:27	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: YATES AP-2 RADS

Pace Project No.: 92497111

QC Batch:	419080	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
		Laboratory:	Pace Analytical Services - Greensburg

Associated Lab Samples: 92497111017, 92497111018, 92497111019, 92497111020

METHOD BLANK: 2026039 Matrix: Water

Associated Lab Samples: 92497111017, 92497111018, 92497111019, 92497111020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.762 ± 0.491 (0.943) C:71% T:74%	pCi/L	10/28/20 11:52	

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

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QUALIFIERS

Project: YATES AP-2 RADS

Pace Project No.: 92497111

DEFINITIONS

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

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

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

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

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

S - Surrogate

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

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

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

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

Acid preservation may not be appropriate for 2 Chloroethylvinyl ether.

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

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

Act - Activity

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

Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92497111001	YGWA-1I (092320)	EPA 9315	415889		
92497111002	YGWA-1D (092320)	EPA 9315	415889		
92497111003	YGWA-2I (092320)	EPA 9315	415889		
92497111004	YGWA-3I (092320)	EPA 9315	415889		
92497111005	YGWA-3D (092320)	EPA 9315	419077		
92497111006	YGWA-30I (092420)	EPA 9315	419077		
92497111007	YGWC-26S (092420)	EPA 9315	419077		
92497111008	YGWC-26I (092420)	EPA 9315	419077		
92497111009	DUP-02 (092420)	EPA 9315	419077		
92497111010	YGWC-27S (092420)	EPA 9315	419077		
92497111011	YGWC-27I (092420)	EPA 9315	419077		
92497111012	FB-01 (092420)	EPA 9315	419077		
92497111013	EB-01 (092520)	EPA 9315	419077		
92497111014	YGWC-28S (092420)	EPA 9315	419077		
92497111015	YGWC-28I (092420)	EPA 9315	419077		
92497111016	YGWC-29I (092420)	EPA 9315	419077		
92497111017	EB-02 (092520)	EPA 9315	419079		
92497111018	YGWA-14S (092520)	EPA 9315	419079		
92497111019	DUP-01 (092520)	EPA 9315	419079		
92497111020	FB-02 (092520)	EPA 9315	419079		
92497111001	YGWA-1I (092320)	EPA 9320	415887		
92497111002	YGWA-1D (092320)	EPA 9320	415887		
92497111003	YGWA-2I (092320)	EPA 9320	415887		
92497111004	YGWA-3I (092320)	EPA 9320	415887		
92497111005	YGWA-3D (092320)	EPA 9320	419078		
92497111006	YGWA-30I (092420)	EPA 9320	419078		
92497111007	YGWC-26S (092420)	EPA 9320	419078		
92497111008	YGWC-26I (092420)	EPA 9320	419078		
92497111009	DUP-02 (092420)	EPA 9320	419078		
92497111010	YGWC-27S (092420)	EPA 9320	419078		
92497111011	YGWC-27I (092420)	EPA 9320	419078		
92497111012	FB-01 (092420)	EPA 9320	419078		
92497111013	EB-01 (092520)	EPA 9320	419078		
92497111014	YGWC-28S (092420)	EPA 9320	419078		
92497111015	YGWC-28I (092420)	EPA 9320	419078		
92497111016	YGWC-29I (092420)	EPA 9320	419078		
92497111017	EB-02 (092520)	EPA 9320	419080		
92497111018	YGWA-14S (092520)	EPA 9320	419080		
92497111019	DUP-01 (092520)	EPA 9320	419080		
92497111020	FB-02 (092520)	EPA 9320	419080		
92497111001	YGWA-1I (092320)	Total Radium Calculation	418329		
92497111002	YGWA-1D (092320)	Total Radium Calculation	418329		
92497111003	YGWA-2I (092320)	Total Radium Calculation	418329		
92497111004	YGWA-3I (092320)	Total Radium Calculation	418329		
92497111005	YGWA-3D (092320)	Total Radium Calculation	421737		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: YATES AP-2 RADS
Pace Project No.: 92497111

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
92497111006	YGWA-30I (092420)	Total Radium Calculation	421737		
92497111007	YGWC-26S (092420)	Total Radium Calculation	421737		
92497111008	YGWC-26I (092420)	Total Radium Calculation	421737		
92497111009	DUP-02 (092420)	Total Radium Calculation	421737		
92497111010	YGWC-27S (092420)	Total Radium Calculation	421737		
92497111011	YGWC-27I (092420)	Total Radium Calculation	421737		
92497111012	FB-01 (092420)	Total Radium Calculation	421737		
92497111013	EB-01 (092520)	Total Radium Calculation	421737		
92497111014	YGWC-28S (092420)	Total Radium Calculation	421737		
92497111015	YGWC-28I (092420)	Total Radium Calculation	421737		
92497111016	YGWC-29I (092420)	Total Radium Calculation	421737		
92497111017	EB-02 (092520)	Total Radium Calculation	420840		
92497111018	YGWA-14S (092520)	Total Radium Calculation	420840		
92497111019	DUP-01 (092520)	Total Radium Calculation	420840		
92497111020	FB-02 (092520)	Total Radium Calculation	420840		

REPORT OF LABORATORY ANALYSIS

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Sample Condition Upon Receipt

Client Name: GAPower

WO#: 92497111



Courier: Fed Ex UPS USPS Client Commercial Pace
Tracking #: _____

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 230 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 3.4°C Biological Tissue Is Frozen: Yes No
Temp should be above freezing to 8°C

Date and Initials of person examining contents: 9/23/2004

Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	7.
Sufficient Volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	11.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	12.
-Includes date/time/ID/Analysis Matrix:	<u>W</u>	
All containers needing preservation have been checked.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	13.
All containers needing preservation are found to be in compliance with EPA recommendation.	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
exceptions: VOA, coliform, TOC, O&G, WI-DRO (water)	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Initial when completed
		Lot # of added preservative
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	14.
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if purchased):		

Client Notification/ Resolution: _____ Field Data Required? Y / N
Person Contacted: _____ Date/Time: _____
Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

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

• 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 bottle

Project # **WO# : 92497111**

PM: **KLH1** Due Date: **10/14/20**

CLIENT: **GA-GA Power**

Matrix	Item#	BP4U-125 mL Plastic Unpreserved (N/A) (C-)	BP3U-250 mL Plastic Unpreserved (N/A)	BP2U-500 mL Plastic Unpreserved (N/A)	BP1U-1 liter Plastic Unpreserved (N/A)	BP4S-125 mL Plastic H2SO4 (pH < 2) (C-)	BP3N-250 mL plastic HNO3 (pH < 2)	BP4Z-125 mL Plastic 2N Acetate & NaOH (S9)	BP4C-125 mL Plastic NaOH (pH > 12) (C-)	WGFLU-Wide-mouthed Glass Jar Unpreserved	AG1U-1 liter Amber Unpreserved (N/A) (C-)	AG1H-1 liter Amber HCl (pH < 2)	AG3U-250 mL Amber Unpreserved (N/A) (C-)	AG1S-1 liter Amber H2SO4 (pH < 2)	AG3S-250 mL Amber H2SO4 (pH < 2)	AG3A(DG3A)-250 mL Amber NH4Cl (N/A)(C-)	DG9H-40 mL VOA HCl (N/A)	VG9T-40 mL VOA Na2S2O3 (N/A)	VG9U-40 mL VOA Unp (N/A)	DG9P-40 mL VOA H3PO4 (N/A)	VOAK (6 vials per kit)-VPH/Gas kit (N/A)	V/GK (3 vials per kit)-VPH/Gas kit (N/A)	SP5T-125 mL Sterile Plastic (N/A - lab)	SP2T-250 mL Sterile Plastic (N/A - lab)	BP3A-250 mL Plastic (H42)2SO4 (9.3-9.7)	AG6U-100 mL Amber Unpreserved vials (N/A)	VSGU-20 mL Stabilization vials (N/A)	
	1																											
	2																											
	3																											
	4																											
	5																											
	6																											
	7																											
	8																											
	9																											
	10																											
	11																											
	12																											

BPIN

pH Adjustment Log for Preserved Samples

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

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



CHAIN-OF-CUSTODY / Analytical Request Document

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

Section A
 Client Information: **Georgia Power**
 Address: **1070 Bridge Mill Ave**
 City: **John, GA 30114**

Section B
 Required Project Information:
 Report To: **Becky Steever**
 Copy To:
 Purchase Order #: **Yates AP-2**
 Project Name: **Yates AP-2**
 Project #:
 Requested Due Date: **17701384-5526** Fax: **7701384-5526**

Section C
 Invoice Information:
 Attention: **Becky Steever**
 Company Name:
 Address:
 Page Quote:
 Page Project Manager: **Kevin.Herridge@paceanalytical.com**
 Page Profile #: **10840**
 Requested Analyte Filtered (Y/N): **QA**

Section D
 Regulatory Agency: **GA**
 State Location: **GA**

ITEM #	DESCRIPTION	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives						Analysis Test	Y/N	Residual Chlorine (Y/N)
				START DATE	END DATE			Unpreserved	H2SO4	HNO3	HCl	NaOH	Na2S2O3			
1	DUP															
2	EQUIPMENT-GRAB															
3	EQUIPMENT-GRAB															
4	YGWA-11 (092320)			9/23	0950		5K	K								PH (6.01)
5	YGWA-10 (092320)			9/23	1045		5X	K								PH (7.15)
6	YGWA-21 (092320)			9/23	1245		5A	L								PH (7.22)
7	YGWA-31 (092320)			9/23	1445		5B	L								PH (7.37)
8	YGWA-30															
9	YGWA-35															
10	YGWA-36															
11	YGWA-38															
12	YGWA-39															

REQUISITIONED BY/AFFILIATION: **BES Jacobs**
 DATE: **9/23/10** TIME: **1740**
 ACCEPTED BY/AFFILIATION: **Becky Steever**
 DATE: **9/23/10** TIME: **1740**

SAMPLER NAME AND SIGNATURE: **Becky Steever**
 PRINT Name of SAMPLER: **Becky Steever**
 DATE SIGNED: **9/23/10**

TEMP In C: **9A**
 Received on ice (Y/N)
 Custody Sealed Cooler (Y/N)
 Samples Intact (Y/N)

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: LAL
Date: 10/7/2020
Worklist: 56441
Matrix: DW

Method Blank Assessment	
MB Sample ID	2010986
MB concentration:	0.196
M/B Counting Uncertainty:	0.236
MB MDC:	0.495
MB Numerical Performance Indicator:	1.62
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?		N
	LCS56441	LCS056441	
Count Date:	10/8/2020		
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/mL):	24.044		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.524		
Target Conc. (pCi/L, g, F):	4.587		
Uncertainty (Calculated):	0.055		
Result (pCi/L, g, F):	4.928		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.804		
Numerical Performance Indicator:	0.83		
Percent Recovery:	107.44%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.	
	92496907001	92496907001DUP
Sample I.D.:	92496907001	
Duplicate Sample I.D.:	92496907001DUP	
Sample Result (pCi/L, g, F):	0.950	
Sample Result Counting Uncertainty (pCi/L, g, F):	0.383	
Sample Duplicate Result (pCi/L, g, F):	1.227	
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.469	
Are sample and/or duplicate results below RL?	See Below #	
Duplicate Numerical Performance Indicator:	(-0.896) ^{0.4}	
Duplicate RPD:	25.43%	
Duplicate Status vs Numerical Indicator:	N/A	
Duplicate Status vs RPD:	Fail	
% RPD Limit:	25%	

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

Comments:

Status must be re-checked due to unacceptable precision N/A 10/18/2020

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): MS 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:		

Matrix Spike/Matrix Spike Duplicate Sample Assessment
Sample I.D. Sample MS I.D. Sample MSD I.D. 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: 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:

10/18/2020

CAVE 10/18/2020

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 10/7/2020
Worklist: 56441
Matrix: DW

Method Blank Assessment	
MB Sample ID	2010986
MB concentration:	0.196
M/B Counting Uncertainty:	0.236
MB MDC:	0.495
MB Numerical Performance Indicator:	1.52
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
Count Date:	LCS# (Y or N)?
10/8/2020	LCS56441
19-033	10/8/2020
24.044	19-033
0.10	24.044
0.524	0.10
4.587	0.512
0.055	4.700
4.928	0.056
0.804	4.118
0.83	0.734
107.44%	-1.55
N/A	87.60%
Pass	N/A
125%	Pass
75%	125%

Duplicate Sample Assessment	
Sample I.D.:	LCS56441
Duplicate Sample I.D.:	LCS56441
Sample Result (pCi/L, g, F):	4.928
Sample Duplicate Result (pCi/L, g, F):	0.804
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	4.118
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.734
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.459
Duplicate Percent Recoveries:	20.34%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

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

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

Comments:

LAM 10/18/2020

CNE 10/18/2020

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 10/27/2020
Worklist: 56828
Matrix: DW

Method Blank Assessment	
MB Sample ID	2026036
MB concentration:	0.033
MB Counting Uncertainty:	0.189
MB MDC:	0.489
MB Numerical Performance Indicator:	0.35
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS56828	Y
Count Date:	10/28/2020	10/28/2020
Spike I.D.:	19-033	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.043	24.043
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.520	0.506
Target Conc. (pCi/L, g, F):	4.820	4.754
Uncertainty (Calculated):	0.055	0.057
Result (pCi/L, g, F):	4.348	4.042
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.725	0.696
Numerical Performance Indicator:	-0.73	-2.00
Percent Recovery:	94.12%	85.02%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	LCS/D (Y or N)?	
	LCS56828	Y
Sample I.D.:	LCS56828	LCS56828
Duplicate Sample I.D.:	LCS56828	LCS56828
Sample Result (pCi/L, g, F):	4.348	4.348
Sample Result Counting Uncertainty (pCi/L, g, F):	0.725	0.725
Sample Duplicate Result (pCi/L, g, F):	4.042	4.042
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.696	0.696
Are sample and/or duplicate results below RL?	NO	NO
Duplicate Numerical Performance Indicator:	0.599	0.599
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	10.16%	10.16%
Duplicate Status vs Numerical Indicator:	N/A	N/A
Duplicate Status vs RPD:	Pass	Pass
% RPD Limit:	25%	25%

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

Comments:

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

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

Handwritten note: 10/28/2020

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: LAL
Date: 10/27/2020
Worklist: 56828
Matrix: DW

Method Blank Assessment	
MB Sample ID	2026036
MB concentration:	0.033
M/B Counting Uncertainty:	0.189
MB MDC:	0.489
MB Numerical Performance Indicator:	0.35
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	
LCSD (Y or N)?	N
LCSD56828	LCSD56828
Count Date:	10/28/2020
Spike I.D.:	19-033
Decay Corrected Spike Concentration (pCi/mL):	24.043
Volume Used (mL):	0.10
Aliquot Volume (L, g, F):	0.520
Target Conc. (pCi/L, g, F):	4.620
Uncertainty (Calculated):	0.055
Result (pCi/L, g, F):	4.348
LCSD Counting Uncertainty (pCi/L, g, F):	0.725
Numerical Performance Indicator:	-0.73
Percent Recovery:	94.12%
Status vs Numerical Indicator:	N/A
Status vs Recovery:	Pass
Upper % Recovery Limits:	125%
Lower % Recovery Limits:	75%

Duplicate Sample Assessment	
Sample I.D.:	92497108003
Duplicate Sample I.D.:	92497108003DUP
Sample Result (pCi/L, g, F):	0.462
Sample Duplicate Result (pCi/L, g, F):	0.292
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	1.107
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.420
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	2.473
Duplicate RPD:	82.30%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail**
% RPD Limit:	25%

Sample Matrix Spike Control Assessment	
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):	
Matrix Spike Result:	
Sample Matrix Spike Result:	
Sample Matrix Spike Duplicate Result:	
Matrix Spike Duplicate Result Counting Uncertainty (pCi/L, g, F):	
MS Numerical Performance Indicator:	
MSD Numerical Performance Indicator:	
MS Percent Recovery:	
MSD Percent Recovery:	
MS Status vs Numerical Indicator:	
MSD Status vs Numerical Indicator:	
MS Status vs Recovery:	
MSD Status vs Recovery:	
MS/MSD Upper % Recovery Limits:	
MS/MSD Lower % Recovery Limits:	

Matrix Spike/Matrix Spike Duplicate Sample Assessment	
Sample I.D.:	
Sample MS I.D.:	
Sample MSD I.D.:	
Matrix Spike Result:	
Sample Matrix Spike Result:	
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:	

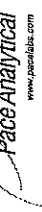
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

~~Sample must be re-prepped due to unacceptable precision~~ N/A
MAM 10/28/2020

MAM
10/28/2020
MAM 10/28/2020

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 10/27/2020
Worklist: 56830
Matrix: DW

Method Blank Assessment	
MB Sample ID	2026038
MB concentration:	0.002
M/B Counting Uncertainty:	0.179
MB MDC:	0.490
MB Numerical Performance Indicator:	0.03
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS56830	Y
Count Date:	10/28/2020	LCS56830
Spike I.D.:	19-033	10/28/2020
Decay Corrected Spike Concentration (pCi/mL):	24.043	19-033
Volume Used (mL):	0.10	24.043
Aliquot Volume (L, g, F):	0.503	0.506
Target Conc. (pCi/L, g, F):	4.785	4.751
Uncertainty (Calculated):	0.057	0.057
Result (pCi/L, g, F):	4.399	4.248
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.719	0.714
Numerical Performance Indicator:	-1.05	-1.38
Percent Recovery:	91.94%	89.40%
Status vs Numerical Indicator:	N/A	N/A
Status vs Recovery:	Pass	Pass
Upper % Recovery Limits:	125%	125%
Lower % Recovery Limits:	75%	75%

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below.
Sample I.D.:	LCS56830
Duplicate Sample I.D.:	LCS56830
Sample Result (pCi/L, g, F):	4.399
Sample Result Counting Uncertainty (pCi/L, g, F):	0.719
Sample Duplicate Result (pCi/L, g, F):	4.248
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.714
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	0.292
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	2.79%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Pass
% RPD Limit:	25%

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

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

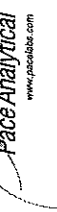
Evaluation of duplicate precision is not applicable if either the sample or duplicate results are below the MDC.

Comments:

Chlorine

10/28/2020

Quality Control Sample Performance Assessment



Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-226
Analyst: LAL
Date: 10/27/2020
Worklist: 56830
Matrix: DW

Method Blank Assessment	
MB Sample ID	2026038
MB concentration:	0.002
M/B Counting Uncertainty:	0.179
MB MDC:	0.490
MB Numerical Performance Indicator:	0.03
MB Status vs Numerical Indicator:	N/A
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS (Y or N)?		N
	LCS56830	LCS56830	
Count Date:	10/28/2020		
Spike I.D.:	19-033		
Decay Corrected Spike Concentration (pCi/mL):	24.043		
Volume Used (mL):	0.10		
Aliquot Volume (L, g, F):	0.503		
Target Conc. (pCi/L, g, F):	4.785		
Uncertainty (Calculated):	0.057		
Result (pCi/L, g, F):	4.399		
LCS/LCSD Counting Uncertainty (pCi/L, g, F):	0.719		
Numerical Performance Indicator:	-1.05		
Percent Recovery:	91.94%		
Status vs Numerical Indicator:	N/A		
Status vs Recovery:	Pass		
Upper % Recovery Limits:	125%		
Lower % Recovery Limits:	75%		

Duplicate Sample Assessment	Enter Duplicate sample IDs if other than LCS/LCSD in the space below:
Sample I.D.:	92497111017
Duplicate Sample I.D.:	92497111017DUP
Sample Result (pCi/L, g, F):	0.114
Sample Result Counting Uncertainty (pCi/L, g, F):	0.191
Sample Duplicate Result (pCi/L, g, F):	0.155
Sample Duplicate Result Counting Uncertainty (pCi/L, g, F):	0.276
Are sample and/or duplicate results below RL?	See Below #
Duplicate Numerical Performance Indicator:	-0.242
Duplicate RPD:	30.83%
Duplicate Status vs Numerical Indicator:	N/A
Duplicate Status vs RPD:	Fail***
% RPD Limit:	25%

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

Comments:

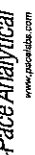
~~Analyst must be re-trained due to unacceptable precision.~~ N/A

LAM 10/28/2020

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LAM 10/28/2020

Quality Control Sample Performance Assessment



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

Test: Ra-228
Analyst: VAL
Date: 10/6/2020
Worklist: 56439
Matrix: WT

Method Blank Assessment	
MB Sample ID	2010984
MB concentration:	0.452
M/B 2 Sigma CSU:	0.429
MB MDC:	0.882
MB Numerical Performance Indicator:	2.07
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS56439	Y
Count Date:	10/12/2020	LCS56439
Spike I.D.:	20-030	10/12/2020
Decay Corrected Spike Concentration (pCi/mL):	38.055	38.055
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.805	0.809
Target Conc. (pCi/L, g, F):	4.730	4.702
Uncertainty (Calculated):	0.232	0.230
Result (pCi/L, g, F):	5.342	4.034
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	1.236	1.010
Numerical Performance Indicator:	0.95	-1.26
Percent Recovery:	112.95%	85.79%
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.:	LCS56439
Duplicate Sample I.D.:	LCS56439
Sample Result (pCi/L, g, F):	5.342
Sample Duplicate Result (pCi/L, g, F):	1.236
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	4.034
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.010
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	1.607
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	27.34%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	35%

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

Comments:

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

Handwritten initials: JLV, 10-13-20

Quality Control Sample Performance Assessment



Test: Ra-228
Analyst: VAL
Date: 11/2/2020
Worklist: 56829
Matrix: WT

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

Method Blank Assessment	
MB Sample ID	2026037
MB concentration:	0.576
M/B 2 Sigma CSU:	0.425
MB MDC:	0.831
MB Numerical Performance Indicator:	2.66
MB Status vs Numerical Indicator:	Warning
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment	LCS/D (Y or N)?	
	LCS/D56829	Y
Count Date:	11/4/2020	LCS/D56829
Spike I.D.:	20-030	11/4/2020
Decay Corrected Spike Concentration (pCi/mL):	37.767	37.767
Volume Used (mL):	0.10	0.10
Aliquot Volume (L, g, F):	0.817	0.808
Target Conc. (pCi/L, g, F):	4.625	4.675
Uncertainty (Calculated):	0.227	0.229
Result (pCi/L, g, F):	3.579	4.450
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):	0.928	1.084
Numerical Performance Indicator:	-2.15	-0.40
Percent Recovery:	77.38%	95.19%
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.:	LCS56829
Duplicate Sample I.D.:	LCS/D56829
Sample Result (pCi/L, g, F):	3.579
Sample Result 2 Sigma CSU (pCi/L, g, F):	0.928
Sample Duplicate Result (pCi/L, g, F):	4.450
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.084
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-1.197
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	20.64%
Duplicate Status vs Numerical Indicator:	Pass
Duplicate Status vs RPD:	Pass
% RPD Limit:	38%

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

Comments:

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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): Matrix Spike Result: Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MSD Numerical Performance Indicator: MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

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

Quality Control Sample Performance Assessment

Analyst Must Manually Enter All Fields Highlighted in Yellow.

Test: Ra-228
Analyst: VAL
Date: 10/26/2020
Worklist: 56831
Matrix: WT



Method Blank Assessment	
MB Sample ID	2026039
MS concentration:	0.762
M/B 2 Sigma CSU:	0.491
MB MDC:	0.943
MB Numerical Performance Indicator:	3.04
MB Status vs Numerical Indicator:	Fail*
MB Status vs. MDC:	Pass

Laboratory Control Sample Assessment		LCS/D (Y or N)?	Y
Count Date:		LCS56831	10/28/2020
Spike I.D.:		20-030	37.855
Decay Corrected Spike Concentration (pCi/mL):		0.10	0.815
Volume Used (mL):		4.671	4.643
Aliquot Volume (L, g, F):		0.229	0.228
Target Conc. (pCi/L, g, F):		4.850	5.280
Uncertainty (Calculated):		1.141	1.178
Result (pCi/L, g, F):		0.47	1.04
LCS/LCSD 2 Sigma CSU (pCi/L, g, F):		105.97%	113.72%
Numerical Performance Indicator:		N/A	N/A
Percent Recovery:		Pass	Pass
Status vs Numerical Indicator:		135%	135%
Upper % Recovery Limits:		60%	60%
Lower % Recovery Limits:			

Duplicate Sample Assessment	
Sample I.D.:	LCS56831
Duplicate Sample I.D.:	LCSD56831
Sample Result (pCi/L, g, F):	4.950
Sample Duplicate Result (pCi/L, g, F):	1.141
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	5.280
Sample Duplicate Result 2 Sigma CSU (pCi/L, g, F):	1.178
Are sample and/or duplicate results below RL?	NO
Duplicate Numerical Performance Indicator:	-0.385
(Based on the LCS/LCSD Percent Recoveries) Duplicate RPD:	7.05%
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): MS Aliquot (L, g, F): MS Target Conc. (pCi/L, g, F): MSD Aliquot (L, g, F): MSD Target Conc. (pCi/L, g, F): MS Spike Uncertainty (calculated): MSD Spike Uncertainty (calculated):		
Sample Result: Sample Result 2 Sigma CSU (pCi/L, g, F): Matrix Spike Result 2 Sigma CSU (pCi/L, g, F): Sample Matrix Spike Duplicate Result: Sample Matrix Spike Duplicate Result 2 Sigma CSU (pCi/L, g, F): MS Numerical Performance Indicator: MS Numerical Performance Indicator:		
MS Percent Recovery: MSD Percent Recovery: MS Status vs Numerical Indicator: MSD Status vs Numerical Indicator: MS Status vs Recovery: MSD Status vs Recovery: MS/MSD Upper % Recovery Limits: MS/MSD Lower % Recovery Limits:		

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

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

Comments:

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

10/29/20

APPENDIX C

Historical Groundwater Analytical Data



Analyte	Units	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	
		YGWA-1I (060116)	YGWA-1I (072516)	YGWA-1I (091316)	YGWA-1I (110416)	YGWA-1I (011617)	YGWA-1I (030217)	YGWA-1I (042717)	YGWA-1I (062717)	YGWA-1I (100317)	
		6/1/2016	7/25/2016	9/13/2016	11/4/2016	1/16/2017	3/2/2017	4/27/2017	6/27/2017	10/3/2017	
Appendix III	pH	SU	6.33	6.21	6.16	6.29	6.29	6.28	6.09	6.21	5.98
	Boron	mg/l	< 0.05	< 0.1	< 0.1	< 0.1	< 0.04	< 0.04	< 0.04	0.006 J	0.0071 J
	Calcium	mg/l	2.5	2.16	2.21	2.67	2.45	2.57	2.38	2.36	2.21
	Chloride	mg/l	1.6	1.4	1.3	1.6	1.4	1.3	1.3	1.4	1.7
	Fluoride	mg/l	< 0.2	0.06 J	< 0.3	< 0.3	< 0.3	< 0.3	0.01 J	< 0.3	< 0.3
	Sulfate	mg/l	4.2	3.7	5.2	5	7.9	7.4	7.4	6.4	5.9
	TDS	mg/l	54	48	67	60	65	61	31	42	58
Appendix IV	Antimony	mg/l	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	0.0017 J	< 0.003	NA
	Arsenic	mg/l	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	NA
	Barium	mg/l	0.012	0.0091 J	0.008 J	0.0067 J	0.0096 J	0.0112	0.0106	0.0092 J	NA
	Beryllium	mg/l	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	NA
	Cadmium	mg/l	< 0.0025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	NA
	Chromium	mg/l	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	0.0004 J	< 0.01	< 0.01	NA
	Cobalt	mg/l	0.00082 J	0.0008 J	0.0009 J	0.0025 J	0.0027 J	0.0022 J	0.0018 J	0.0023 J	NA
	Lead	mg/l	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	NA
	Lithium	mg/l	< 0.005	0.002 J	< 0.05	< 0.05	0.0023 J	0.0025 J	0.0027 J	0.0024 J	NA
	Mercury	mg/l	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	NA
	Molybdenum	mg/l	0.012 J	0.0098 J	0.01 J	0.01	0.0086 J	0.01	0.0101	0.0093 J	NA
	Combined Radium - 226/228	pCi/l	0.42	1.83	0.841	0.166 U	0	0.504 U	0.593 U	0.657 U	NA
Selenium	mg/l	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA	
Thallium	mg/l	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	NA	
Field	Conductivity	µS/cm	67.47	60.2	59.02	70	74.5	68.5	69.6	66.4	NA
	Dissolved Oxygen	mg/l	3.01	3.42	3.02	4.44	1.84	1.82	2.08	2.12	NA
	Oxidation Reduction Potential	mV	28.9	46.9	-100.42	98.8	-40.1	51.9	-35.3	42.7	NA
	Temperature	C	18.34	20.31	18.7	20.85	15.77	15.13	21.75	19.94	NA
	Turbidity	ntu	2.52	0	2.06	6.6	2.35	1.52	1.68	2.61	NA

Analyte	Units	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	YGWA-1I	
		YGWA-1I (032718)	YGWA-1I (060618)	YGWA-1I (100118)	YGWA-1I (022719)	YGWA-1I (032819)	YGWA-1I (092419)	YGWA-1I (021020)	YGWA-1I (031820)	YGWA-1I (09232020)	
		3/27/2018	6/6/2018	10/1/2018	2/27/2019	3/28/2019	9/24/2019	2/10/2020	3/18/2020	9/23/2020	
Appendix III	pH	SU	6.25	6.17	5.9	5.8	6.15	6.23	6.10	6.19	< 0.0052
	Boron	mg/l	NA	< 0.04	0.0049 J	NA	< 0.04	0.0055 J	NA	0.0087 J	6.01
	Calcium	mg/l	NA	2.3	1.8	NA	2.2	2.3	NA	2.1	1.8
	Chloride	mg/l	NA	1.4	1.4	NA	1.5	1.3	NA	1.4	1.2
	Fluoride	mg/l	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.050	< 0.050	< 0.050
	Sulfate	mg/l	NA	4.4	4	NA	4.3	4.3	NA	5.3	3.4
	TDS	mg/l	NA	96	60	NA	87	54	NA	35.0	15.0
Appendix IV	Antimony	mg/l	< 0.003	NA	NA	< 0.003	NA	NA	< 0.00027	0.00040 JB	< 0.00028
	Arsenic	mg/l	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00050 JB	< 0.00035	< 0.00078
	Barium	mg/l	< 0.01	0.0082 J	0.0084 J	0.008 J	0.0082 J	0.0086 J	0.0091 J	0.0084 J	0.0079 J
	Beryllium	mg/l	< 0.003	NA	NA	< 0.003	< 0.003	< 0.003	< 0.000074	< 0.000074	< 0.000046
	Cadmium	mg/l	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011	< 0.00012
	Chromium	mg/l	< 0.01	NA	NA	< 0.01	0.0021 J	0.0028 J	< 0.00039	0.00044 J	0.00058 J
	Cobalt	mg/l	< 0.01	< 0.01	0.00059 J	0.00064 J	0.00091 J	0.0013 J	0.0016 J	0.00087 J	0.0013 J
	Lead	mg/l	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	< 0.000046	0.00021 J
	Lithium	mg/l	0.0023 J	0.0024 J	0.0023 J	0.0023 J	0.0022 J	0.0023 J	0.0023 J	0.0024 J	0.0024 J
	Mercury	mg/l	< 0.0005	NA	NA	0.000054 J	< 0.0005	< 0.0005	< 0.00014	NA	NA
	Molybdenum	mg/l	0.0074 J	0.0073 J	0.0076 J	0.0078 J	0.0082 J	0.0074 J	0.0062 J	0.0056 J	0.0059 J
	Combined Radium - 226/228	pCi/l	0.39 U	2.8	1.06 U	0.637 U	0.125 U	0.949 U	1.25	0.458	0.00884 U
	Selenium	mg/l	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013	< 0.0016
Thallium	mg/l	< 0.001	NA	NA	< 0.001	NA	NA	0.000055 J	< 0.000052	< 0.00014	
Field	Conductivity	µS/cm	60.31	NA	NA	52.7	58.3	59.9	NA	NA	62.38
	Dissolved Oxygen	mg/l	3.05	NA	NA	3.72	4.07	2.68	NA	NA	2.8
	Oxidation Reduction Potential	mV	50.82	NA	NA	53.4	83.8	59.5	NA	NA	52.8
	Temperature	C	16.26	NA	NA	15.93	17.17	25.33	NA	NA	18.2
	Turbidity	ntu	1.32	NA	NA	2.54	2.7	1.95	NA	NA	0

Analyte	Units	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	
		YGWA-1D (060116)	YGWA-1D (072616)	YGWA-1D (091316)	YGWA-1D (110116)	YGWA-1D (011117)	YGWA-1D (030217)	YGWA-1D (042717)	YGWA-1D (062717)	YGWA-1D (100317)	
		6/1/2016	7/26/2016	9/13/2016	11/1/2016	1/11/2017	3/2/2017	4/27/2017	6/27/2017	10/3/2017	
Appendix III	pH	SU	7.46	7.43	7.44	7.24	7.3	7.23	6.99	6.87	6.81
	Boron	mg/l	< 0.05	0.0055 J	< 0.1	0.0086 J	0.0074 J	0.008 J	0.0066 J	0.0087 J	0.0072 J
	Calcium	mg/l	12	11	11.8	11	11.2	11	11.1	13.8	14
	Chloride	mg/l	1.3	1.2	1.1	1.3	1.1	1	1	1.1	1.1
	Fluoride	mg/l	0.12 J	0.08 J	0.11 J	< 0.3	0.05 J	< 0.3	0.04 J	< 0.3	< 0.3
	Sulfate	mg/l	5	5.4	2.9	3.9	3.7	4.6	5.2	5.9	6.6
	TDS	mg/l	120	94	105	44	107	98	116	89	119
Appendix IV	Antimony	mg/l	< 0.0025	0.001 J	0.001 J	0.0015 J	< 0.003	0.0004 J	0.0004 J	< 0.003	NA
	Arsenic	mg/l	0.0021	0.0016 J	< 0.005	< 0.005	0.0017 J	0.0014 J	0.0018 J	0.0018 J	NA
	Barium	mg/l	0.008	0.006 J	0.0084 J	0.0062 J	0.0069 J	0.0071 J	0.0064 J	0.0054 J	NA
	Beryllium	mg/l	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	NA
	Cadmium	mg/l	< 0.0025	< 0.001	< 0.001	< 0.001	0.0002 J	< 0.001	< 0.001	< 0.001	NA
	Chromium	mg/l	0.0035	< 0.01	< 0.01	< 0.01	< 0.01	0.0009 J	< 0.01	< 0.01	NA
	Cobalt	mg/l	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA
	Lead	mg/l	0.00056 J	< 0.005	0.0001 J	< 0.005	< 0.005	0.0001 J	< 0.005	< 0.005	NA
	Lithium	mg/l	0.015	0.0135 J	0.0112 J	0.0163 J	0.0166 J	0.0159 J	0.0137 J	0.0094 J	NA
	Mercury	mg/l	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	NA
	Molybdenum	mg/l	0.014 J	0.0132	0.0127	0.0092 J	0.0093 J	0.0099 J	0.0103	0.0097 J	NA
	Combined Radium - 226/228	pCi/l	0.321 U	0.707 U	1.22	0.805 U	0.705 U	0.251 U	1.08	1.02 U	NA
	Selenium	mg/l	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	NA
Thallium	mg/l	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	NA	
Field	Conductivity	µS/cm	161.82	155.2	151.18	156.8	164.5	159.1	161.8	158	NA
	Dissolved Oxygen	mg/l	0.07	0.19	0.27	0.36	0.54	0.31	0.2	0.29	NA
	Oxidation Reduction Potential	mV	-93	-87.5	-228.5	-113.2	-50.4	-53.7	-154.1	-24.6	NA
	Temperature	C	19.77	18.35	18.65	18.81	16.63	17.1	17.72	19.67	NA
	Turbidity	ntu	NA	4.01	2.66	4.68	1.91	4.62	1.15	2.61	NA

Analyte	Units	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	YGWA-1D	
		YGWA-1D (032918)	YGWA-1D (060518)	YGWA-1D (100118)	YGWA-1D (022719)	YGWA-1D (032819)	YGWA-1D (092419)	YGWA-1D (021020)	YGWA-1D (031920)	YGWA-1D (092320)	
		3/29/2018	6/5/2018	10/1/2018	2/27/2019	3/28/2019	9/24/2019	2/10/2020	3/19/2020	9/23/2020	
Appendix III	pH	SU	7.38	7.16	6.8	6.84	6.99	7.07	7.20	7.03	< 0.0052
	Boron	mg/l	NA	0.0052 J	0.021 J	NA	0.005 J	0.0064 J	NA	0.0085 J	7.15
	Calcium	mg/l	NA	15.2 J	15.1	NA	13.3 J	15.8	NA	15.0	14.1
	Chloride	mg/l	NA	1.1	1.1	NA	1.4	1.1	NA	1.1	0.99 J
	Fluoride	mg/l	< 0.3	0.055 J	< 0.3	0.052 J	0.036 J	0.063 J	0.061 J	0.064 J	0.058 J
	Sulfate	mg/l	NA	6.4	5.6	NA	8	5.3	NA	10	8.1
	TDS	mg/l	NA	127	117	NA	87	124	NA	116	108
Appendix IV	Antimony	mg/l	< 0.003	NA	NA	< 0.003	NA	NA	0.00088 J	< 0.00027	< 0.00028
	Arsenic	mg/l	0.0017 J	0.0013 J	0.0016 J	0.0015 J	0.00072 J	0.0014 J	0.0026 JB	0.00095 J	0.0011 J
	Barium	mg/l	< 0.01	0.0069 J	0.0062 J	0.0074 J	0.0082 J	0.0072 J	0.0066 J	0.0076 J	0.0068 J
	Beryllium	mg/l	< 0.003	NA	NA	< 0.003	< 0.003	< 0.003	< 0.000074	< 0.000074	< 0.000046
	Cadmium	mg/l	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011	< 0.00012
	Chromium	mg/l	< 0.01	NA	NA	< 0.01	< 0.01	0.00072 J	0.00042 J	0.00084 J	0.00062 J
	Cobalt	mg/l	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.00030	< 0.00030	< 0.00038
	Lead	mg/l	< 0.005	NA	NA	< 0.005	NA	NA	0.000049 J	0.00012 J	< 0.000036
	Lithium	mg/l	0.0078 J	0.0079 J	0.0053 J	0.0093 J	0.013 J	0.0046 J	0.011 J	0.013 J	0.014 J
	Mercury	mg/l	< 0.0005	NA	NA	0.000051 J	0.00004 J	< 0.0005	< 0.00014	NA	NA
	Molybdenum	mg/l	0.0076 J	0.0092 J	0.0085 J	0.0087 J	0.0092 J	0.0072 J	0.0087 J	0.0088 J	0.0080 J
	Combined Radium - 226/228	pCi/l	0.503 U	0.771 U	0.783 U	1.21 U	1.13 U	1.22 U	1.41	1.10	1.35 U
	Selenium	mg/l	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013	< 0.0016
Thallium	mg/l	< 0.001	NA	NA	< 0.001	NA	NA	< 0.000052	< 0.000052	< 0.00014	
Field	Conductivity	µS/cm	167.24	NA	NA	145.6	152.6	168.11	NA	NA	162.71
	Dissolved Oxygen	mg/l	0.25	NA	NA	0.14	0.27	0.34	NA	NA	0.2
	Oxidation Reduction Potential	mV	-93.82	NA	NA	-162.3	-95.3	33	NA	NA	-115.0
	Temperature	C	16.45	NA	NA	15.88	16.29	26.15	NA	NA	17.6
	Turbidity	ntu	2.59	NA	NA	1.24	4.7	0.86	NA	NA	1.1

Analyte	Units	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	
		YGWA-2I (091316)	YGWA-2I (091416)	YGWA-2I (110416)	YGWA-2I (121516)	YGWA-2I (011617)	YGWA-2I (030317)	YGWA-2I (042817)	YGWA-2I (052617)	YGWA-2I (062817)	
		9/13/2016	9/14/2016	11/4/2016	12/15/2016	1/16/2017	3/3/2017	4/28/2017	5/26/2017	6/28/2017	
Appendix III	pH	SU	7.41	NA	7.12	7.24	7.24	7.22	7.21	7.13	7.06
	Boron	mg/l	NA	< 0.1	< 0.1	0.0107 J	< 0.04	< 0.04	< 0.04	< 0.04	< 0.04
	Calcium	mg/l	NA	23.5	23.7	23.1	23.3	25.1	30.7	26.2	26.1
	Chloride	mg/l	NA	1.1	1.4	2.9	0.98	1.1	0.91	0.93	1
	Fluoride	mg/l	NA	0.08 J	< 0.3	0.06 J	0.1 J	< 0.3	0.06 J	0.09 J	0.11 J
	Sulfate	mg/l	NA	9.4	13	1.8	11	8.8	10	12	11
	TDS	mg/l	NA	152	148	191	180	156	130	223	166
Appendix IV	Antimony	mg/l	NA	< 0.003	< 0.003	0.0012 J	< 0.003	< 0.003	0.0015 J	0.0005 J	< 0.003
	Arsenic	mg/l	NA	< 0.005	0.0017 J	0.0023 J	0.0018 J	0.0016 J	0.002 J	0.0005 J	0.0016 J
	Barium	mg/l	NA	0.0037 J	0.0059 J	0.0056 J	0.0049 J	0.0046 J	0.0039 J	0.0034 J	0.003 J
	Beryllium	mg/l	NA	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cadmium	mg/l	NA	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Chromium	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	0.0005 J	0.0004 J	< 0.01	< 0.01
	Cobalt	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Lead	mg/l	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	Lithium	mg/l	NA	0.004 J	< 0.05	0.0026 J	0.0023 J	0.0013 J	0.0031 J	0.0038 J	0.0026 J
	Mercury	mg/l	NA	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Molybdenum	mg/l	NA	0.0039 J	0.0077 J	0.0066 J	0.0056 J	0.0049 J	0.004 J	0.0029 J	0.0036 J
	Combined Radium - 226/228	pCi/l	NA	0.98 U	0.277 U	0.071 U	0.44 U	0.448 U	0.548 U	0 U	0.608 U
	Selenium	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/l	NA	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	208.16	NA	243.3	240.8	241.3	234.8	217.4	214	217.7
	Dissolved Oxygen	mg/l	0.5	NA	0.51	3.01	0.4	0.61	0.35	0.25	0.45
	Oxidation Reduction Potential	mV	-91.86	NA	-123.3	-78.2	-172.3	-81.6	-194.4	-102.6	-66.8
	Temperature	C	22.44	NA	21.83	12.48	20.84	16.1	21.78	17.99	24.36
	Turbidity	ntu	2.7	NA	1.66	3.64	4.15	1.51	3.06	2.5	2.42

Analyte	Units	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	YGWA-2I	
		YGWA-2I (100317)	YGWA-2I (032818)	YGWA-2I (060718)	YGWA-2I (100118)	YGWA-2I (022719)	YGWA-2I (032919)	YGWA-2I (092419)	YGWA-2I (021120)	YGWA-2I (031920)	
		10/3/2017	3/28/2018	6/7/2018	10/1/2018	2/27/2019	3/29/2019	9/24/2019	2/11/2020	3/19/2020	
Appendix III	pH	SU	6.99	7.3	7.29	7.07	7.27	7.06	7.01	7.38	7.22
	Boron	mg/l	< 0.04	NA	< 0.04	< 0.2	NA	0.0065 J	0.0076 J	NA	0.0073 J
	Calcium	mg/l	26.7	NA	25	25	NA	23.5 J	26.4	NA	27.4
	Chloride	mg/l	1.2	NA	1	1.1	NA	1.2	0.95 J	NA	0.97 J
	Fluoride	mg/l	< 0.3	0.31	0.11 J	< 0.3	0.12 J	0.13 J	0.081 J	0.075 J	0.093 J
	Sulfate	mg/l	7.9	NA	8.8	9.1	NA	9	9.1	NA	12.4
	TDS	mg/l	153	NA	146	155	NA	150	146	NA	148
Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	0.00036 J	0.00030 JB
	Arsenic	mg/l	NA	0.0013 J	0.00082 J	0.0011 J	0.001 J	0.00063 J	< 0.005	0.0044 JB	0.00066 J
	Barium	mg/l	NA	< 0.01	0.0037 J	0.0038 J	0.0035 J	0.0039 J	0.0038 J	0.0036 J	0.0036 J
	Beryllium	mg/l	NA	< 0.003	NA	NA	< 0.003	< 0.003	< 0.003	< 0.000074	< 0.000074
	Cadmium	mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
	Chromium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.00039	0.00048 J
	Cobalt	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.00030	< 0.00030
	Lead	mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	< 0.000046
	Lithium	mg/l	NA	0.0025 J	0.0017 J	< 0.25 o	0.0011 J	0.0016 J	0.0011 J	0.0012 J	0.0022 J
	Mercury	mg/l	NA	< 0.0005	NA	NA	< 0.0005	< 0.0005	< 0.0005	< 0.00014	NA
	Molybdenum	mg/l	NA	0.0038 J	0.004 J	0.0042 J	0.0041 J	0.0041 J	0.0054 J	0.0057 J	0.0046 J
	Combined Radium - 226/228	pCi/l	NA	0.412 U	0.73 U	0.756 U	0.635 U	0.224 U	0.429 U	0.817	0.715
	Selenium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	< 0.000052	< 0.000052	
Field	Conductivity	µS/cm	NA	219.56	NA	NA	197.2	213.6	222.08	NA	NA
	Dissolved Oxygen	mg/l	NA	0.4	NA	NA	0.56	1.59	0.47	NA	NA
	Oxidation Reduction Potential	mV	NA	-38.23	NA	NA	-111.9	-84.5	56.5	NA	NA
	Temperature	C	NA	16.4	NA	NA	15.98	16.8	22.98	NA	NA
	Turbidity	ntu	NA	0.46	NA	NA	0.5	3.1	1.11	NA	NA

Analyte	Units	YGWA-2I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	
		YGWA-2I (092320)	YGWA-3I (060116)	YGWA-3I (072516)	YGWA-3I (091416)	YGWA-3I (110116)	YGWA-3I (011117)	YGWA-3I (030117)	YGWA-3I (042617)	YGWA-3I (062817)	
		9/23/2020	6/1/2016	7/25/2016	9/14/2016	11/1/2016	1/11/2017	3/1/2017	4/26/2017	6/28/2017	
Appendix III	pH	SU	< 0.0052	7.72	7.74	7.65	7.7	7.53	7.42	7.4	7.5
	Boron	mg/l	7.22	< 0.05	< 0.1	< 0.1	< 0.1	< 0.04	< 0.04	< 0.04	< 0.04
	Calcium	mg/l	26.3	21	20.3	19.7	18.4	20.3	18.6	25.6	23.9
	Chloride	mg/l	0.88 J	1.3	1.3	1.3	1.4	1.1	1.1	1.1	1.2
	Fluoride	mg/l	0.080 J	0.15 J	0.14 J	0.18 J	< 0.3	0.09 J	< 0.3	0.08 J	0.12 J
	Sulfate	mg/l	11.8	12	8.4	8.6	8.9	8.6	9.3	11	12
	TDS	mg/l	161	150	135	127	75	148	182	92	126
	Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic		mg/l	0.0010 J	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	0.0004 J	< 0.005	0.0011 J
Barium		mg/l	0.0039 J	0.0038	0.0031 J	0.0027 J	0.0027 J	0.0036 J	0.0036 J	0.0038 J	0.004 J
Beryllium		mg/l	< 0.000046	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cadmium		mg/l	< 0.00012	< 0.0025	< 0.001	< 0.001	< 0.001	0.00008 J	< 0.001	< 0.001	< 0.001
Chromium		mg/l	< 0.00055	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	0.0004 J	< 0.01	< 0.01
Cobalt		mg/l	< 0.00038	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead		mg/l	0.0011 J	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Lithium		mg/l	0.0016 J	0.01	0.0132 J	0.012 J	0.0115 J	0.0085 J	0.0114 J	0.0092 J	0.0085 J
Mercury		mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Molybdenum		mg/l	0.0071 J	0.0055 J	0.0037 J	0.0034 J	0.0025 J	0.0033 J	0.0044 J	0.0075 J	0.008 J
Combined Radium - 226/228		pCi/l	0.565 U	0.896	2.28	0.821 U	0.585 U	1.22	0.877 U	0.672 U	1.07 U
Selenium		mg/l	< 0.0016	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.00014	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	217.9	213.8	185	190.6	191.5	217.5	212	229.2	226.9
	Dissolved Oxygen	mg/l	0.8	0.09	0.06	0.11	0.64	0.55	0.46	0.4	0.45
	Oxidation Reduction Potential	mV	-58.2	-120	-116.2	-116.58	-121.9	-33	-54.6	-64.5	-11.8
	Temperature	C	19.0	17.45	19.38	19.68	18.82	16.44	17.58	19.5	20.59
	Turbidity	ntu	17.6	NA	0	0.73	0.18	0.32	0.68	0.45	1.89

Analyte	Units	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	YGWA-3I	
		YGWA-3I (100417)	YGWA-3I (032818)	YGWA-3I (060818)	YGWA-3I (100118)	YGWA-3I (022719)	YGWA-3I (040119)	YGWA-3I (092519)	YGWA-3I (021120)	YGWA-3I (031920)	
		10/4/2017	3/28/2018	6/8/2018	10/1/2018	2/27/2019	4/1/2019	9/25/2019	2/11/2020	3/19/2020	
Appendix III	pH	SU	7.45	7.74	7.64	7.47	7.54	7.74	7.47	7.09	7.31
	Boron	mg/l	< 0.04	NA	< 0.04	< 0.2	NA	< 0.04	< 0.04	NA	0.0053 J
	Calcium	mg/l	22.1	NA	21.9 J	19.7	NA	20.4 J	22.4	NA	21.9
	Chloride	mg/l	1.2	NA	1.2	1.2	NA	1.1	1.1	NA	1.1
	Fluoride	mg/l	< 0.3	< 0.3	0.2 J	< 0.3	0.13 J	0.1 J	0.1 J	0.094 J	0.11 J
	Sulfate	mg/l	12	NA	9.6	9.1	NA	8.5	13.8	NA	12.9
	TDS	mg/l	147	NA	158	138	NA	19 J	159	NA	148 D6
Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	< 0.00027	< 0.00027B
	Arsenic	mg/l	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0041 JB	< 0.00035
	Barium	mg/l	NA	< 0.01	0.0034 J	0.0034 J	0.0034 J	0.003 J	0.005 J	0.0031 J	0.0029 J
	Beryllium	mg/l	NA	< 0.003	NA	NA	< 0.003	< 0.003	< 0.003	< 0.000074	< 0.000074
	Cadmium	mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
	Chromium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	0.0019 J	< 0.00039	< 0.00039
	Cobalt	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.00030	< 0.00030
	Lead	mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	< 0.000046
	Lithium	mg/l	NA	0.013 J	0.012 J	0.011 J	0.014 J	0.013 J	0.01 J	0.013 J	0.014 J
	Mercury	mg/l	NA	< 0.0005	NA	NA	0.000061 J	0.000084 J	< 0.0005	< 0.00014	NA
	Molybdenum	mg/l	NA	0.0025 J	0.0041 J	0.0037 J	0.0027 J	0.0021 J	0.0087 J	0.0030 J	0.0043 J
	Combined Radium - 226/228	pCi/l	NA	0.65 U	1.89	1.58	3.67	2.28	1.6	1.85	2.20
	Selenium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	< 0.000052	< 0.000052	
Field	Conductivity	µS/cm	NA	196.33	NA	NA	195.6	187.5	234.27	NA	NA
	Dissolved Oxygen	mg/l	NA	0.53	NA	NA	0.42	0.38	1.07	NA	NA
	Oxidation Reduction Potential	mV	NA	-110.09	NA	NA	-83.5	-87.8	-26.6	NA	NA
	Temperature	C	NA	17.7	NA	NA	16.46	15.6	29.09	NA	NA
	Turbidity	ntu	NA	0.32	NA	NA	0.79	0.95	4.7	NA	NA

Analyte	Units	YGWA-3I	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	
		YGWA-3I (092320)	YGWA-3D (060216)	YGWA-3D (072616)	YGWA-3D (091516)	YGWA-3D (110116)	YGWA-3D (011117)	YGWA-3D (030217)	YGWA-3D (042617)	YGWA-3D (062817)	
		9/23/2020	6/2/2016	7/26/2016	9/15/2016	11/1/2016	1/11/2017	3/2/2017	4/26/2017	6/28/2017	
Appendix III	pH	SU	0.0073 J	7.84	7.88	7.74	7.75	7.66	7.68	7.45	7.65
	Boron	mg/l	7.37	< 0.05	0.0097 J	0.0102 J	< 0.1	< 0.04	0.0084 J	< 0.04	< 0.04
	Calcium	mg/l	23.6	28	24.5	27	25.6	27.5	27.5	30.4	29.8
	Chloride	mg/l	1.0	1.4	1.6	1.5	1.7	1.2	1.2	1.2	1.3
	Fluoride	mg/l	0.098 J	0.62	0.49	0.54	0.68	0.49	0.48	0.48	0.47
	Sulfate	mg/l	16.8	5.8	6.7	6	4.9	4.5	4.4	5.1	5.4
	TDS	mg/l	155	130	141	153	92	159	117	181	169
Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	0.002 J	0.0027 J	< 0.003	< 0.003	0.0008 J	< 0.003	< 0.003
	Arsenic	mg/l	< 0.00078	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0007 J
	Barium	mg/l	0.0039 J	0.01	0.0088 J	0.009 J	0.0079 J	0.0075 J	0.009 J	0.0078 J	0.0071 J
	Beryllium	mg/l	0.000059 J	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cadmium	mg/l	< 0.00012	< 0.0025	< 0.001	< 0.001	< 0.001	0.0001 J	< 0.001	< 0.001	< 0.001
	Chromium	mg/l	< 0.00055	0.0013 J	< 0.01	< 0.01	< 0.01	< 0.01	0.0006 J	< 0.01	< 0.01
	Cobalt	mg/l	< 0.00038	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Lead	mg/l	0.00015 J	0.00056 J	0.0001 J	0.0002 J	< 0.005	< 0.005	0.0002 J	< 0.005	< 0.005
	Lithium	mg/l	0.013 J	0.018	0.0221 J	0.0197 J	0.0194 J	0.0177 J	0.0185 J	0.0183 J	0.0173 J
	Mercury	mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Molybdenum	mg/l	0.010	0.0093 J	0.0113	0.0112	0.0099 J	0.0093 J	0.0103	0.01	0.0102
	Combined Radium - 226/228	pCi/l	1.14 U	2.51	3.82	4.24	3.92	2.52	3.13	2.35	2.6
	Selenium	mg/l	< 0.0016	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/l	0.00016 J	< 0.0005	0.0001 J	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	269.21	216.1	215.7	222.59	226.2	231.7	231.9	226.5	225
	Dissolved Oxygen	mg/l	1.6	0.17	1.43	0.07	0.23	0.54	0.17	0.12	0.15
	Oxidation Reduction Potential	mV	-35.0	-137.3	-101.5	-77.19	-58.9	-54.9	-66.7	-97	-64.5
	Temperature	C	20.1	17.43	19.25	18.45	18.61	16.74	15.24	18.97	21.69
	Turbidity	ntu	0.0	NA	2.27	2.54	1.03	0.76	4.75	0.95	1.81

Analyte	Units	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	YGWA-3D	
		YGWA-3D (100417)	YGWA-3D (032818)	YGWA-3D (060718)	YGWA-3D (100118)	YGWA-3D (022719)	YGWA-3D (040119)	YGWA-3D (092519)	YGWA-3D (021220)	YGWA-3D (031920)	
		10/4/2017	3/28/2018	6/7/2018	10/1/2018	2/27/2019	4/1/2019	9/25/2019	2/12/2020	3/19/2020	
Appendix III	pH	SU	7.49	7.91	7.69	7.39	7.55	7.87	7.64	7.83	7.65
	Boron	mg/l	< 0.04	NA	0.004 J	< 0.2	NA	< 0.04	0.0054 J	NA	0.0073 J
	Calcium	mg/l	29.7	NA	29.1	26.9	NA	30.1	29.5	NA	31.5
	Chloride	mg/l	1.5	NA	1.2	1.5	NA	1.2	1.1	NA	1.2
	Fluoride	mg/l	< 0.47	0.56	0.48	0.44	0.53	0.45	0.46	0.40	0.51
	Sulfate	mg/l	6.2	NA	6.7	7.1	NA	7.2	7	NA	9.0
	TDS	mg/l	141	NA	95	165	NA	149	157	NA	146
Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	< 0.00027	0.00064 JB
	Arsenic	mg/l	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0038 JB	< 0.00035
	Barium	mg/l	NA	< 0.01	0.0068 J	0.0065 J	0.0059 J	0.0064 J	0.0059 J	0.0062 J	0.0072 J
	Beryllium	mg/l	NA	< 0.003	NA	NA	< 0.003	< 0.003	< 0.003	< 0.000074	< 0.000074
	Cadmium	mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
	Chromium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	0.0014 J	< 0.00039	< 0.00039
	Cobalt	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.00030	< 0.00030
	Lead	mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	0.00017 J
	Lithium	mg/l	NA	0.02 J	0.02 J	0.02 J	0.021 J	0.021 J	0.02 J	0.019 J	0.023 J
	Mercury	mg/l	NA	< 0.0005	NA	NA	0.000062 J	0.000096 J	< 0.0005	< 0.00014	NA
	Molybdenum	mg/l	NA	0.011	0.011	0.012	0.011	0.012	0.012	0.013	0.013
	Combined Radium - 226/228	pCi/l	NA	3	2.79	3.14	3.79	4.33	4.2	3.87	3.96
	Selenium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	< 0.000052	< 0.000052	
Field	Conductivity	µS/cm	NA	231.13	NA	NA	229	212.6	234.21	NA	NA
	Dissolved Oxygen	mg/l	NA	0.67	NA	NA	0.1	0.24	0.18	NA	NA
	Oxidation Reduction Potential	mV	NA	-115.93	NA	NA	-78.7	-62.7	-44.6	NA	NA
	Temperature	C	NA	19.12	NA	NA	16.51	16.59	25.14	NA	NA
	Turbidity	ntu	NA	0.23	NA	NA	0.85	1.21	1.83	NA	NA

Analyte	Units	YGWA-3D	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	
		YGWA-3D (092420)	YGWA-14S (060216)	YGWA-14S (072616)	YGWA-14S (091516)	YGWA-14S (110216)	YGWA-14S (011017)	YGWA-14S (030817)	YGWA-14S (042617)	YGWA-14S (063017)	
		9/24/2020	6/2/2016	7/26/2016	9/15/2016	11/2/2016	1/10/2017	3/8/2017	4/26/2017	6/30/2017	
Appendix III	pH	SU	0.012 J	5.46	5.45	5.45	5.41	5.37	5.41	5.02 o	5.39
	Boron	mg/l	7.57	< 0.05	0.0177 J	0.0214 J	< 0.1	0.0198 J	0.0189 J	0.0161 J	0.0173 J
	Calcium	mg/l	28.6	1.3	1.24	1.17	1.23	1.24	1.21	1.14	1.24
	Chloride	mg/l	1.1	4.1	4	4.2	4.9	4.1	4.2	4.1	3.7
	Fluoride	mg/l	0.47	< 0.2	0.02 J	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
	Sulfate	mg/l	6.9	6.6	6.1	6.1	6.3	5.9	7	7	6.5
	TDS	mg/l	157	46	54	54	71	45	178 o	52	45
	Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	0.0005 J	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic		mg/l	< 0.00078	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium		mg/l	0.0051 J	0.0081	0.0082 J	0.0087 J	0.0082 J	0.0086 J	0.0088 J	0.0085 J	0.0081 J
Beryllium		mg/l	< 0.000046	< 0.0025	0.0002 J	0.0002 J	0.0002 J	0.0002 J	0.0002 J	0.0002 J	0.0002 J
Cadmium		mg/l	< 0.00012	< 0.0025	< 0.001	< 0.001	< 0.001	< 0.001	0.00007 J	< 0.001	< 0.001
Chromium		mg/l	< 0.00055	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cobalt		mg/l	< 0.00038	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead		mg/l	< 0.000036	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	0.0001 J	< 0.005	< 0.005
Lithium		mg/l	0.023 J	< 0.005	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mercury		mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Molybdenum		mg/l	0.012	< 0.015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Combined Radium - 226/228		pCi/l	4.14	0.329 U	1.51	1.04 U	0.496 U	0.376 U	0.0745 U	0.282 U	0.994
Selenium		mg/l	< 0.0016	0.0011 J	0.0016 J	0.0014 J	< 0.01	0.0012 J	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.00014	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	227.96	56.72	60.1	62.77	65.7	69.4	68.6	65.2	63.8
	Dissolved Oxygen	mg/l	0.5	5.24	5.33	4.55	5.38	5.15	5.33	6.02	6.25
	Oxidation Reduction Potential	mV	-115.3	137	106.2	53.15	210.2	146.7	144.8	180.7	177.8
	Temperature	C	18.0	20.83	23	21.76	18.48	16.56	17.13	17.47	19.24
	Turbidity	ntu	17.2	NA	0.15	1.07	0.55	1.39	1.42	0.81	1.74

Analyte	Units	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	YGWA-14S	
		YGWA-14S (100517)	YGWA-14S (032718)	YGWA-14S (060818)	YGWA-14S (100118)	YGWA-14S (022619)	YGWA-14S (032919)	YGWA-14S (092519)	YGWA-14S (021220)	YGWA-14S (031820)	
		10/5/2017	3/27/2018	6/8/2018	10/1/2018	2/26/2019	3/29/2019	9/25/2019	2/12/2020	3/18/2020	
Appendix III	pH	SU	5.49	5.47	5.45	5.39	5.46	5.34	5.19	5.48	5.38
	Boron	mg/l	0.0173 J	NA	0.013 J	0.015 J	NA	0.014 J	0.018 J	NA	0.033 J
	Calcium	mg/l	1.11	NA	1.1	0.99	NA	1.1	1.1	NA	1.1
	Chloride	mg/l	3.8	NA	3.4	3.8	NA	4.2	4.8	NA	5.4
	Fluoride	mg/l	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.050 (< 0.050)	< 0.050
	Sulfate	mg/l	7.9	NA	6.4	6.8	NA	7.3	6.6	NA	9.9
	TDS	mg/l	40	NA	114	50	NA	63	64	NA	57.0 (42.0)
Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	0.00028 J	< 0.00027
	Arsenic	mg/l	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00035	< 0.00035
	Barium	mg/l	NA	< 0.01	0.007 J	0.007 J	0.0067 J	0.0066 J	0.0071 J	0.0076 J	0.0080 J
	Beryllium	mg/l	NA	< 0.003	NA	NA	0.00016 J	0.00017 J	0.00018 J	0.00023 J	0.00021 J
	Cadmium	mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
	Chromium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.00065 J	< 0.00039
	Cobalt	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.00030	< 0.00030
	Lead	mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	< 0.000046
	Lithium	mg/l	NA	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.00078	< 0.00078
	Mercury	mg/l	NA	< 0.0005	NA	NA	0.000061 J	< 0.0005	< 0.0005	< 0.00014	NA
	Molybdenum	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.00095	< 0.00095
	Combined Radium - 226/228	pCi/l	NA	0.189 U	0.218 U	1.24	0.202 U	0 U	0.707 U	1.11 U	0.207 U
	Selenium	mg/l	NA	< 0.01	NA	NA	< 0.01	0.0019 J	< 0.01	< 0.0013	0.0015 J
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	0.000089 J	< 0.000052	
Field	Conductivity	µS/cm	NA	59.93	NA	NA	51.7	54.6	58.6	NA	NA
	Dissolved Oxygen	mg/l	NA	6.68	NA	NA	6.61	6.73	6.25	NA	NA
	Oxidation Reduction Potential	mV	NA	83.78	NA	NA	169.8	214.8	167.4	NA	NA
	Temperature	C	NA	16.16	NA	NA	17.69	17.72	19.98	NA	NA
	Turbidity	ntu	NA	0.77	NA	NA	0.3	0.5	0.33	NA	NA

Analyte	Units	YGWA-14S	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	
		YGWA-14S (092520)	YGWA-30I (060216)	YGWA-30I (072516)	YGWA-30I (091916)	YGWA-30I (110116)	YGWA-30I (011617)	YGWA-30I (022117)	YGWA-30I (042617)	YGWA-30I (063017)	
		9/25/2020	6/2/2016	7/25/2016	9/19/2016	11/1/2016	1/16/2017	2/21/2017	4/26/2017	6/30/2017	
Appendix III	pH	SU	0.020 J	5.75	5.82	5.78	5.62	5.72	5.67	5.56	5.72
	Boron	mg/l	5.44	< 0.05	< 0.1	< 0.1	< 0.1	< 0.04	< 0.04	< 0.04	< 0.04
	Calcium	mg/l	1.3	1.3	1.17	1.05	1.14	1.23	1.25	1.03	1.13
	Chloride	mg/l	5.3	1.9	1.7	1.6	1.8	1.7	1.7	1.7	1.8
	Fluoride	mg/l	< 0.050	< 0.2	0.06 J	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3
	Sulfate	mg/l	6.1	1.3	1.2	1.2	1.3	< 1.4	1.4	1.4	< 1.5
	TDS	mg/l	54	36	50	35	< 25	47	< 25	55	42
Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Arsenic	mg/l	< 0.00078	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	Barium	mg/l	0.0073 J	0.0064	0.0071 J	0.0069 J	0.007 J	0.0071 J	0.0077 J	0.0074 J	0.0076 J
	Beryllium	mg/l	0.00018 J	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cadmium	mg/l	< 0.00012	< 0.0025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Chromium	mg/l	< 0.00055	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0016 J	< 0.01
	Cobalt	mg/l	< 0.00038	0.035	0.0312	0.0275	0.0255	0.0245	0.0272	0.0244	0.0233
	Lead	mg/l	< 0.000036	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	Lithium	mg/l	< 0.00081	< 0.005	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Mercury	mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Molybdenum	mg/l	< 0.00069	< 0.015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Combined Radium - 226/228	pCi/l	0.603 U	0.0652 U	3.01	0.871 U	0.307 U	0.284 U	0.503 U	0.204 U	0.738 U
	Selenium	mg/l	< 0.0016	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.00014	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	61.82	38.33	38.6	38.54	38.3	38.3	40.8	40.1	39.1
	Dissolved Oxygen	mg/l	7.8	5.67	5.71	6.23	6.62	6.1	6.3	6.28	6
	Oxidation Reduction Potential	mV	234.5	106.4	79.5	56.8	104.6	111.6	122.9	150.3	71.1
	Temperature	C	20.1	18.08	21.32	19.64	19.68	16.92	17.14	18.25	18.75
	Turbidity	ntu	1.0	0.77	1.72	2.79	1.23	0.63	3.88	0.45	0.32

Analyte	Units	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	YGWA-30I	
		YGWA-30I (100417)	YGWA-30I (032718)	YGWA-30I (061118)	YGWA-30I (100218)	YGWA-30I (022619)	YGWA-30I (040119)	YGWA-30I (092519)	YGWA-30I (021220)	YGWA-30I (031920)	
		10/4/2017	3/27/2018	6/11/2018	10/2/2018	2/26/2019	4/1/2019	9/25/2019	2/12/2020	3/19/2020	
Appendix III	pH	SU	5.87	5.83	5.69	5.39	5.77	5.62	5.69	5.80	6.00
	Boron	mg/l	< 0.04	NA	0.014 J	< 0.04	NA	< 0.04	< 0.04	NA	0.0052 J
	Calcium	mg/l	1.09	NA	1.1	1.1	NA	1.3	1.1	NA	1.2
	Chloride	mg/l	1.8	NA	2	1.8	NA	1.7	1.6	NA	1.8
	Fluoride	mg/l	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	< 0.050	< 0.050
	Sulfate	mg/l	1.4	NA	1.1	1	NA	0.96 J	0.81 J	NA	1.6
	TDS	mg/l	31	NA	59	57	NA	54	51	NA	47.0
	Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	< 0.00027
Arsenic		mg/l	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0032 JB	< 0.00035
Barium		mg/l	NA	< 0.01	0.007 J	0.0069 J	0.007 J	0.0072 J	0.0066 J	0.0073 J	0.0074 J
Beryllium		mg/l	NA	< 0.003	NA	NA	0.000072 J	< 0.003	< 0.003	< 0.000074	< 0.000074
Cadmium		mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
Chromium		mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.00039	< 0.00039
Cobalt		mg/l	NA	0.023	0.023	0.022	0.021	0.022	0.016	0.014	0.014
Lead		mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	< 0.000046
Lithium		mg/l	NA	0.0011 J	0.0012 J	< 0.05	0.0011 J	0.001 J	0.0011 J	0.0013 J	0.0012 J
Mercury		mg/l	NA	< 0.0005	NA	NA	0.000068 J	0.000082 J	< 0.0005	< 0.00014	NA
Molybdenum		mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.00095	< 0.00095
Combined Radium - 226/228		pCi/l	NA	0.31 U	0.608 U	0.97 U	0.524 U	1.02 U	1.02 U	0.301	1.000
Selenium		mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	< 0.000052	< 0.000052	
Field	Conductivity	µS/cm	NA	39.43	NA	NA	35.6	36.8	37.6	NA	NA
	Dissolved Oxygen	mg/l	NA	6.77	NA	NA	6.75	7.08	6.92	NA	NA
	Oxidation Reduction Potential	mV	NA	83.88	NA	NA	138.2	163.3	143.8	NA	NA
	Temperature	C	NA	17.1	NA	NA	17.54	17.27	21.17	NA	NA
	Turbidity	ntu	NA	2.22	NA	NA	0.3	1	0.42	NA	NA

Analyte	Units	YGWA-30I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	
		YGWA-30I (092420)	YGWC-26I (060816)	YGWC-26I (080116)	YGWC-26I (092016)	YGWC-26I (110716)	YGWC-26I (011817)	YGWC-26I (022117)	YGWC-26I (050817)	YGWC-26I (071017)	
		9/24/2020	6/8/2016	8/1/2016	9/20/2016	11/7/2016	1/18/2017	2/21/2017	5/8/2017	7/10/2017	
Appendix III	pH	SU	0.0075 J	5.85	5.83	5.89	5.91	5.84	5.79	5.84	5.92
	Boron	mg/l	5.67	0.97	0.932	1.04	0.852	0.972	0.972	1.05	0.855
	Calcium	mg/l	1.1	15	14.5	15.3	13.8	15.1	14.6	15.2	17.4
	Chloride	mg/l	1.5	19	17	18	17	19	18	18	19
	Fluoride	mg/l	< 0.050	0.094 J	0.08 J	0.05 J	< 0.3	0.11 J	< 0.3	0.08 J	< 0.3
	Sulfate	mg/l	0.69 J	81	75	78	81	95	80	84	84
	TDS	mg/l	51.0	220	211	217	301	265	158	207	219
Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Arsenic	mg/l	< 0.00078	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	Barium	mg/l	0.0062 J	0.068	0.0688	0.0663	0.065	0.0625	0.0655	0.0699	0.0691
	Beryllium	mg/l	< 0.000046	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cadmium	mg/l	< 0.00012	< 0.0025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Chromium	mg/l	< 0.00055	< 0.0025	0.0008 J	< 0.01	< 0.01	< 0.01	< 0.01	0.0006 J	< 0.01
	Cobalt	mg/l	0.0064	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Lead	mg/l	< 0.000036	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	Lithium	mg/l	0.0011 J	0.007	0.0068 J	0.0062 J	0.0057 J	0.0066 J	0.0067 J	0.007 J	0.0064 J
	Mercury	mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Molybdenum	mg/l	< 0.00069	< 0.015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Combined Radium - 226/228	pCi/l	0.684 U	6.68	0.606 U	0.565 U	0.773 U	0.263 U	1.06 U	0.291 U	0.912
	Selenium	mg/l	< 0.0016	0.0016	0.0023 J	0.0022 J	0.0017 J	0.002 J	0.0018 J	< 0.01	0.002 J
Thallium	mg/l	< 0.00014	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	39.52	310.87	303.3	298.37	309.4	334.3	299.7	308.6	304.8
	Dissolved Oxygen	mg/l	7.1	0.18	0.09	0.76	0.19	0.28	0.28	0.18	0.3
	Oxidation Reduction Potential	mV	216.1	58.9	33.8	31.53	91.2	26.8	124.6	118	33
	Temperature	C	18.0	21.73	20.25	22.8	20.18	19.15	19.15	20.07	22.45
	Turbidity	ntu	7.1	4.29	3.79	1.65	4.69	2.35	3.68	1.54	2.99

Analyte	Units	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	YGWC-26I	
		YGWC-26I (101017)	YGWC-26I (033018)	YGWC-26I (061318)	YGWC-26I (100218)	YGWC-26I (022719)	YGWC-26I (040219)	YGWC-26I (092519)	YGWC-26I (021320)	YGWC-26I (032020)	
		10/10/2017	3/30/2018	6/13/2018	10/2/2018	2/27/2019	4/2/2019	9/25/2019	2/13/2020	3/20/2020	
Appendix III	pH	SU	5.84	6.19	5.82	5.81	5.79	5.87	5.79	5.93	5.94
	Boron	mg/l	0.887	NA	0.86	0.93	NA	0.9	0.86	NA	0.94
	Calcium	mg/l	15.5	NA	15.5	14.7	NA	16.1 J	15.6	NA	17.2
	Chloride	mg/l	19	NA	18.1	18.3	NA	17.9	17.1	NA	17.7
	Fluoride	mg/l	< 0.3	< 0.3	0.088 J	< 0.3	< 0.3	0.071 J	0.064 J	< 0.050	0.071 J
	Sulfate	mg/l	82	NA	76.5	83.9	NA	77.6	80.1	NA	84.7
	TDS	mg/l	194	NA	228	227	NA	223	225	NA	211 (178)
	Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	0.00052 J
Arsenic		mg/l	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00035	< 0.00035
Barium		mg/l	NA	0.063	0.064	0.066	0.065	0.065	0.063	0.060	0.063
Beryllium		mg/l	NA	< 0.003	NA	NA	< 0.003	< 0.003	< 0.003	0.00014 J	< 0.000074
Cadmium		mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
Chromium		mg/l	NA	< 0.01	NA	NA	0.0049 J	< 0.01	0.00048 J	0.00044 J	0.00093 J
Cobalt		mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.00030	< 0.00030
Lead		mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	0.000071 J
Lithium		mg/l	NA	0.0068 J	0.0071 J	0.0064 J	0.0069 J	0.0064 J	0.0073 J	0.0073 J	0.0072 J
Mercury		mg/l	NA	< 0.0005	NA	NA	0.000051 J	0.000051 J	< 0.0005	< 0.00014	NA
Molybdenum		mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.00095	< 0.00095
Combined Radium - 226/228		pCi/l	NA	0.23 U	0.427 U	1.41 U	0.614 U	0.84 U	1.01 U	1.86	2.03
Selenium		mg/l	NA	< 0.01	NA	NA	0.002 J	0.0017 J	0.0019 J	0.0019 J	0.0022 J
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	< 0.000052	< 0.000052	
Field	Conductivity	µS/cm	NA	316.7	NA	NA	285.4	305.5	302.5	NA	NA
	Dissolved Oxygen	mg/l	NA	0.14	NA	NA	0.14	0.23	0.35	NA	NA
	Oxidation Reduction Potential	mV	NA	22.25	NA	NA	104.4	96.1	129.1	NA	NA
	Temperature	C	NA	19.75	NA	NA	18.77	19.19	23.52	NA	NA
	Turbidity	ntu	NA	4.34	NA	NA	1.2	4.8	1.71	NA	NA

Analyte	Units	YGWC-26I	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	
		YGWC-26I (092420)	YGWC-26S (060816)	YGWC-26S (080116)	YGWC-26S (092016)	YGWC-26S (110716)	YGWC-26S (011817)	YGWC-26S (022117)	YGWC-26S (050317)	YGWC-26S (071017)	
		9/24/2020	6/8/2016	8/1/2016	9/20/2016	11/7/2016	1/18/2017	2/21/2017	5/3/2017	7/10/2017	
Appendix III	pH	SU	0.76	5.24	5.17	5.35	5.35	5.2	5.14	5.28	5.25
	Boron	mg/l	5.86	0.62	0.643	0.644	0.621	0.607	0.624	0.676	0.58
	Calcium	mg/l	16.9	13	12.2	12.2	12.1	11.5	11.7	11.9	12.7
	Chloride	mg/l	17.1	18	16	18	16	17	16	17	15
	Fluoride	mg/l	0.053 J	< 0.2	0.24 J	0.03 J	0.44	< 0.3	< 0.3	0.16 J	< 0.3
	Sulfate	mg/l	85.6	110	96	100	100	100	96	100	100
	TDS	mg/l	212	200	191	213	284	158	137	269	183
Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Arsenic	mg/l	< 0.00078	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	Barium	mg/l	0.058	0.029	0.0316	0.0298	0.0289	0.0278	0.0282	0.0282	0.0274
	Beryllium	mg/l	< 0.000046	< 0.0025	0.0002 J	0.0001 J	0.0001 J	0.0002 J	0.0002 J	0.0002 J	0.0002 J
	Cadmium	mg/l	< 0.00012	< 0.0025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
	Chromium	mg/l	0.00067 J	< 0.0025	0.0026 J	0.001 J	0.0013 J	0.002 J	0.0019 J	0.0037 J	< 0.01
	Cobalt	mg/l	< 0.00038	0.0032	0.003 J	0.003 J	0.0025 J	0.0022 J	0.0022 J	0.002 J	0.002 J
	Lead	mg/l	< 0.000036	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00008 J
	Lithium	mg/l	0.0074 J	< 0.005	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
	Mercury	mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Molybdenum	mg/l	< 0.00069	< 0.015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Combined Radium - 226/228	pCi/l	1.47 U	0.677	0.457 U	0.555 U	0.647 U	0.6 U	1.11 U	0.654 U	0.649 U
	Selenium	mg/l	0.0031 J	0.0003 J	0.0014 J	< 0.01	< 0.01	0.0012 J	0.0014 J	< 0.01	< 0.01
Thallium	mg/l	< 0.00014	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	313.18	312.6	299.6	307.38	298	320.6	284.1	289.1	275
	Dissolved Oxygen	mg/l	0.2	0.5	1.02	1.12	1.35	1.09	0.6	1.26	1.92
	Oxidation Reduction Potential	mV	141.8	105.13	32.2	72.2	125.6	81	117.4	188.5	72.6
	Temperature	C	19	20.12	24.47	20.84	21.33	19.68	20.93	21.53	23.61
	Turbidity	ntu	0.2	4.18	2.25	1.92	2.05	2.48	4.81	2.31	4.4

Analyte	Units	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	YGWC-26S	
		YGWC-26S (101017)	YGWC-26S (033018)	YGWC-26S (061318)	YGWC-26S (100218)	YGWC-26S (022719)	YGWC-26S (040219)	YGWC-26S (092519)	YGWC-26S (021320)	YGWC-26S (031920)	
		10/10/2017	3/30/2018	6/13/2018	10/2/2018	2/27/2019	4/2/2019	9/25/2019	2/13/2020	3/19/2020	
Appendix III	pH	SU	5.17	5.19	5.12	4.95	5	5.13	5.24	5.29	5.46
	Boron	mg/l	0.612	NA	0.67	0.62	NA	0.63	0.63	NA	0.73
	Calcium	mg/l	11.4	NA	12.5	12.4 J	NA	11.9 J	11.6	NA	13.0
	Chloride	mg/l	15	NA	14.2	14	NA	13.5	14.4	NA	15.4
	Fluoride	mg/l	< 0.3	0.35	0.044 J	< 0.3	< 0.3	< 0.3	< 0.3	< 0.050	< 0.050
	Sulfate	mg/l	97	NA	93.3	99	NA	94.5	97	NA	99.4
	TDS	mg/l	179	NA	196	191	NA	224	190	NA	194
Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	0.0016 J	0.0017 JB
	Arsenic	mg/l	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00035	< 0.00035
	Barium	mg/l	NA	0.026	0.026	0.026	0.027	0.027	0.026	0.025	0.027
	Beryllium	mg/l	NA	< 0.003	NA	NA	0.00018 J	0.00015 J	0.00011 J	0.00015 J	0.00012 J
	Cadmium	mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
	Chromium	mg/l	NA	< 0.01	NA	NA	0.0055 J	0.003 J	0.0012 J	0.0012 J	0.0018 J
	Cobalt	mg/l	NA	< 0.01	0.0017 J	0.002 J	0.0017 J	0.0022 J	0.0033 J	0.0019 J	0.0021 J
	Lead	mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	0.00010 J
	Lithium	mg/l	NA	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.00078	< 0.00078
	Mercury	mg/l	NA	< 0.0005	NA	NA	0.000049 J	0.000066 J	< 0.0005	< 0.00014	NA
	Molybdenum	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.00095	< 0.00095
	Combined Radium - 226/228	pCi/l	NA	0.501 U	1.09 U	0.747 U	1.27	0.708 U	1.18 U	0.178	0.796
	Selenium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	0.000057 J	0.000055 J	
Field	Conductivity	µS/cm	NA	289.96	NA	NA	251.5	276.1	288.8	NA	NA
	Dissolved Oxygen	mg/l	NA	1.62	NA	NA	1.48	1.02	0.69	NA	NA
	Oxidation Reduction Potential	mV	NA	94.83	NA	NA	190.9	153.8	169	NA	NA
	Temperature	C	NA	18.87	NA	NA	18.66	19.18	22.16	NA	NA
	Turbidity	ntu	NA	4.5	NA	NA	2.4	4.6	2.37	NA	NA

Analyte	Units	YGWC-26S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	
		YGWC-26S (092420)	YGWC-27S (060816)	YGWC-27S (080116)	YGWC-27S (092016)	YGWC-27S (110716)	YGWC-27S (011917)	YGWC-27S (022217)	YGWC-27S (050817)	YGWC-27S (063017)	
		9/24/2020	6/8/2016	8/1/2016	9/20/2016	11/7/2016	1/19/2017	2/22/2017	5/8/2017	6/30/2017	
Appendix III	pH	SU	0.74	6.24	6.12	6.3	6.25	6.2	6.14	6.11	6.17
	Boron	mg/l	5.46	1.3	1.36	1.69	1.35	1.15	1.3	1.51	1.47
	Calcium	mg/l	11.3	44	36.3	39.5	34.9	37	37.6	35.7	36.2
	Chloride	mg/l	15.7	22	21	22	24	22	21	22	21
	Fluoride	mg/l	< 0.050	0.12 J	0.22 J	0.32	< 0.3	0.25 J	0.21 J	0.19 J	0.2 J
	Sulfate	mg/l	92.3	26	27	21	24	25	24	23	23
	TDS	mg/l	171	210	209	224	291	215	262	187	209
	Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic		mg/l	< 0.00078	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium		mg/l	0.025	0.12	0.115	0.108	0.102	0.102	0.106	0.102	0.0963
Beryllium		mg/l	0.000085 J	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cadmium		mg/l	< 0.00012	< 0.0025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chromium		mg/l	0.00068 J	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cobalt		mg/l	0.0011 J	0.0024 J	0.0026 J	0.0026 J	0.0025 J	0.0024 J	0.0023 J	0.0023 J	0.0022 J
Lead		mg/l	0.000064 J	< 0.0013	< 0.005	0.0002 J	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Lithium		mg/l	< 0.00081	< 0.005	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mercury		mg/l	--	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Molybdenum		mg/l	< 0.00069	< 0.015	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Combined Radium - 226/228		pCi/l	1.14 U	0.257 U	0.453 U	1.27	0.877 U	0.764 U	1.26 U	0.789 U	0.592 U
Selenium		mg/l	< 0.0016	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.00014	0.00012 J	0.0001 J	< 0.001	< 0.001	< 0.001	< 0.001	0.0001 J	0.0001 J	
Field	Conductivity	µS/cm	272.90	434	436.2	447.87	434.4	471.7	417.6	429.2	415.2
	Dissolved Oxygen	mg/l	0.8	0.11	0.11	0.07	0.15	0.15	0.16	0.19	0.2
	Oxidation Reduction Potential	mV	178.7	77.5	40.9	-9.87	74	2.9	114.1	14.4	90
	Temperature	C	19.1	21.33	22.45	20.19	19.41	18.88	19.42	19.05	19.85
	Turbidity	ntu	1.4	NA	1.05	4.78	4.5	3.55	2.18	1.46	3.95

Analyte	Units	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	YGWC-27S	
		YGWC-27S (100617)	YGWC-27S (032918)	YGWC-27S (061218)	YGWC-27S (100218)	YGWC-27S (022719)	YGWC-27S (040119)	YGWC-27S (092619)	YGWC-27S (021320)	YGWC-27S (032020)	
		10/6/2017	3/29/2018	6/12/2018	10/2/2018	2/27/2019	4/1/2019	9/26/2019	2/13/2020	3/20/2020	
Appendix III	pH	SU	6.13	6.25	6.22	5.99	6.26	6.4	6.22	6.31	6.18
	Boron	mg/l	1.31	NA	1.6	1.4	NA	1.4	1.5	NA	1.4
	Calcium	mg/l	39.8	NA	36.2	39.1	NA	38	37.5	NA	42.1
	Chloride	mg/l	21	NA	19.8	19.9	NA	19.7	19.6	NA	17.7
	Fluoride	mg/l	< 0.3	0.49	0.037 J	< 0.3	0.14 J	0.088 J	0.22 J	0.11 J	0.097 J
	Sulfate	mg/l	23	NA	18.1	20.2	NA	18.3	18.2	NA	21.1
	TDS	mg/l	183	NA	208	206	NA	221	225	NA	182
	Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	< 0.00027
Arsenic		mg/l	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00035	< 0.00035
Barium		mg/l	NA	0.097	0.095	0.1	0.096	0.099	0.099	0.097	0.095
Beryllium		mg/l	NA	< 0.003	NA	NA	< 0.003	< 0.003	< 0.003	< 0.000074	< 0.000074
Cadmium		mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
Chromium		mg/l	NA	< 0.01	NA	NA	0.015	< 0.01	< 0.01	< 0.00039	0.00050 J
Cobalt		mg/l	NA	< 0.01	0.0025 J	0.0023 J	0.0024 J	0.0023 J	0.0021 J	0.0026 J	0.0022 J
Lead		mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	0.000062 J	0.000085 J
Lithium		mg/l	NA	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.03	< 0.00078	< 0.00078
Mercury		mg/l	NA	< 0.0005	NA	NA	0.000049 J	0.000041 J	< 0.0005	< 0.00014	NA
Molybdenum		mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.00095	< 0.00095
Combined Radium - 226/228		pCi/l	NA	0.916 U	0.666 U	0.774 U	1.19	0.777 U	1.01 U	0.961	1.50
Selenium		mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	0.00010 J	0.00011 J	
Field	Conductivity	µS/cm	NA	412.32	NA	NA	402.4	396	421.79	NA	NA
	Dissolved Oxygen	mg/l	NA	1.19	NA	NA	0.17	0.27	0.32	NA	NA
	Oxidation Reduction Potential	mV	NA	57.78	NA	NA	224.4	134.4	90.6	NA	NA
	Temperature	C	NA	19.74	NA	NA	18.43	19.02	24.55	NA	NA
	Turbidity	ntu	NA	3.03	NA	NA	3.44	4.67	1.59	NA	NA

Analyte	Units	YGWC-27S	YGWC-271	YGWC-271	YGWC-271	YGWC-271	YGWC-271	YGWC-271	YGWC-271	YGWC-271	
		YGWC-27S (092420)	YGWC-271 (060816)	YGWC-271 (080116)	YGWC-271 (092016)	YGWC-271 (110716)	YGWC-271 (011817)	YGWC-271 (022317)	YGWC-271 (050817)	YGWC-271 (063017)	
		9/24/2020	6/8/2016	8/1/2016	9/20/2016	11/7/2016	1/18/2017	2/23/2017	5/8/2017	6/30/2017	
Appendix III	pH	SU	1.3	6.32	6.34	6.36	6.3	6.31	6.18	6.24	6.21
	Boron	mg/l	6.27	2.2	2	2.02	1.91	1.69	1.76	2	2.28
	Calcium	mg/l	38.6	25	21.4	26.3	26.1	25.6	28.2	27.2	27.2
	Chloride	mg/l	17.0	14	13	13	14	14	14	14	14
	Fluoride	mg/l	0.092 J	0.086 J	0.14 J	< 0.3	< 0.3	< 0.3	< 0.3	0.07 J	< 0.3
	Sulfate	mg/l	16.6	3.2	3.6	5.6	5.4	3.5	4.9	3.9	5
	TDS	mg/l	185	190	191	205	264	167	253	174	193
	Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic		mg/l	< 0.00078	0.0011 J	0.0009 J	< 0.005	< 0.005	< 0.005	< 0.005	0.0006 J	< 0.005
Barium		mg/l	0.087	0.081	0.0838	0.0687	0.0639	0.0645	0.0728	0.0721	0.0666
Beryllium		mg/l	< 0.000046	< 0.0025	< 0.003	0.00009 J	0.0001 J	0.0002 J	0.0002 J	0.0002 J	0.0002 J
Cadmium		mg/l	< 0.00012	< 0.0025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chromium		mg/l	0.00057 J	< 0.0025	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cobalt		mg/l	0.0021 J	0.0016 J	0.0014 J	0.002 J	0.0016 J	0.0017 J	0.002 J	0.0029 J	0.0044 J
Lead		mg/l	0.00037 J	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Lithium		mg/l	< 0.00081	0.0067	0.008 J	0.0111 J	0.0097 J	0.01 J	0.0099 J	0.0086 J	0.0108 J
Mercury		mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Molybdenum		mg/l	< 0.00069	0.0011 J	0.0018 J	< 0.01	< 0.01	< 0.01	< 0.01	0.0011 J	< 0.01
Combined Radium - 226/228		pCi/l	1.49	1.81	3.79	3.12	2.66	3.44	4.73	3.87	2.85
Selenium		mg/l	< 0.0016	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.00014	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	375.10	336.68	330	336.3	336.8	365.6	330	344.8	334.7
	Dissolved Oxygen	mg/l	7.3	0.21	0.19	0.29	0.29	0.2	0.45	0.15	0.19
	Oxidation Reduction Potential	mV	135.5	-103.6	-62.2	-28.61	5.1	-76.9	45	-79.9	7.8
	Temperature	C	19.2	20.93	21.33	21.24	18.87	18.79	17.9	19.8	20.24
	Turbidity	ntu	3.3	3.87	0.78	2.22	1.71	1.59	2.21	0.81	0.92

Analyte	Units	YGWC-271	YGWC-271	YGWC-271	YGWC-271	YGWC-271	YGWC-271	YGWC-271	YGWC-271	YGWC-271	
		YGWC-271 (100917)	YGWC-271 (032918)	YGWC-271 (061318)	YGWC-271 (100218)	YGWC-271 (022719)	YGWC-271 (040119)	YGWC-271 (092619)	YGWC-271 (021320)	YGWC-271 (032020)	
		10/9/2017	3/29/2018	6/13/2018	10/2/2018	2/27/2019	4/1/2019	9/26/2019	2/13/2020	3/20/2020	
Appendix III	pH	SU	6.26	6.36	6.28	5.9	6.31	6.43	6.3	6.40	6.32
	Boron	mg/l	1.82	NA	2.2	1.9	NA	2.4	1.9	NA	2.1
	Calcium	mg/l	27.3	NA	29.4	29.2	NA	27.4	24.2	NA	30.3
	Chloride	mg/l	14	NA	13.1	13.8	NA	14.2	14.3	NA	13.0
	Fluoride	mg/l	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.034 J	0.14 J	< 0.050	< 0.050
	Sulfate	mg/l	5.1	NA	6.1	6.1	NA	4.1	4.2	NA	5.2
	TDS	mg/l	185	NA	219	227	NA	198	198	NA	195
Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	< 0.00027	0.00033 JB
	Arsenic	mg/l	NA	0.0006 J	< 0.005	< 0.005	0.00069 J	< 0.005	0.00058 J	0.00055 J	0.00042 J
	Barium	mg/l	NA	0.062	0.063	0.062	0.066	0.066	0.065	0.063	0.062
	Beryllium	mg/l	NA	< 0.003	NA	NA	0.00022 J	0.00022 J	0.0002 J	0.00021 J	0.00023 J
	Cadmium	mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
	Chromium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.00039	< 0.00039
	Cobalt	mg/l	NA	0.051	0.092	0.078	0.035	0.025	0.014	0.012	0.014
	Lead	mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	< 0.000046
	Lithium	mg/l	NA	0.011 J	0.014 J	0.012 J	0.0096 J	0.0082 J	0.0075 J	0.0079 J	0.0091 J
	Mercury	mg/l	NA	< 0.0005	NA	NA	0.000054 J	0.000045 J	< 0.0005	< 0.00014	NA
	Molybdenum	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0013 J	0.0014 J	0.0014 J
	Combined Radium - 226/228	pCi/l	NA	1.41	3.69	4.5	4.69	5	3.37	4.48	4.13
	Selenium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	< 0.000052	< 0.000052	
Field	Conductivity	µS/cm	NA	342.23	NA	NA	340.1	322.5	335.94	NA	NA
	Dissolved Oxygen	mg/l	NA	0.21	NA	NA	0.21	0.3	0.13	NA	NA
	Oxidation Reduction Potential	mV	NA	-8.62	NA	NA	38.6	6.8	51.3	NA	NA
	Temperature	C	NA	19.46	NA	NA	19.31	18.95	21.57	NA	NA
	Turbidity	ntu	NA	1.49	NA	NA	0.95	1.87	0.72	NA	NA

Analyte	Units	YGWC-271	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	
		YGWC-271 (092420)	YGWC-28S (060916)	YGWC-28S (080216)	YGWC-28S (092116)	YGWC-28S (110716)	YGWC-28S (011817)	YGWC-28S (022117)	YGWC-28S (050517)	YGWC-28S (070717)	
		9/24/2020	6/9/2016	8/2/2016	9/21/2016	11/7/2016	1/18/2017	2/21/2017	5/5/2017	7/7/2017	
Appendix III	pH	SU	2.3	6.39	6.35	6.39	6.36	6.23	6.42	6.4	6.46
	Boron	mg/l	6.36	2.3	2.21	2.54	2.49	2.04	2.29	3.41	3.01
	Calcium	mg/l	27.9	26	25.8	24.9	25.1	26.1	29	28.1	28.6
	Chloride	mg/l	13.3	19	18	19	20	20	19	21	20
	Fluoride	mg/l	0.059 J	0.16 J	0.5	0.25 J	0.27 J	0.34	0.27 J	0.2 J	0.18 J
	Sulfate	mg/l	3.0	5.2	4.5	< 4.1	4.3	2.7	3	< 4.7	2.7
	TDS	mg/l	186	210	202	216	399	215	198	347	236
	Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Arsenic		mg/l	< 0.00078	0.00094 J	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.0007 J
Barium		mg/l	0.069	0.22	0.212	0.228	0.214	0.213	0.222	0.219	0.205
Beryllium		mg/l	0.00019 J	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
Cadmium		mg/l	< 0.00012	< 0.0025	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001
Chromium		mg/l	< 0.00055	< 0.0025	0.0005 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Cobalt		mg/l	0.0076	0.00085 J	0.0008 J	0.0008 J	0.001 J	0.001 J	0.0011 J	0.0012 J	0.0012 J
Lead		mg/l	< 0.000036	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	0.00007 J
Lithium		mg/l	0.0075 J	< 0.005	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05	< 0.05
Mercury		mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
Molybdenum		mg/l	0.0015 J	< 0.015	0.0006 J	< 0.01	< 0.01	< 0.01	< 0.01	0.0007 J	< 0.01
Combined Radium - 226/228		pCi/l	3.42	0.715	0.526 U	0.176 U	0.609 U	0.0752 U	0.404 U	0.868 U	1.29
Selenium		mg/l	< 0.0016	< 0.0013	< 0.01	0.001 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.00014	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	329.12	409	403.5	422.16	436	449.5	450.2	457.8	461.5
	Dissolved Oxygen	mg/l	0.5	0.07	0.09	0.34	0.25	0.15	0.22	0.13	0.11
	Oxidation Reduction Potential	mV	-17.6	-54	-55.1	-46.4	-26.2	-22.6	-47.7	-138	-60.2
	Temperature	C	19.4	20.26	20.51	20.08	19.85	18.79	18.18	16.96	22.1
	Turbidity	ntu	0.0	NA	2.43	3.71	6.52	3.49	NA	4.83	4.84

Analyte	Units	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	YGWC-28S	
		YGWC-28S (100917)	YGWC-28S (033018)	YGWC-28S (061218)	YGWC-28S (100318)	YGWC-28S (022719)	YGWC-28S (040219)	YGWC-28S (092619)	YGWC-28S (021320)	YGWC-28S (031920)	
		10/9/2017	3/30/2018	6/12/2018	10/3/2018	2/27/2019	4/2/2019	9/26/2019	2/13/2020	3/19/2020	
Appendix III	pH	SU	6.37	6.35	6.47	6.01	6.38	6.7	6.47	6.53	6.98
	Boron	mg/l	2.76	NA	2.9	2.4	NA	2.9	2.5	NA	2.5
	Calcium	mg/l	27.3	NA	26.4	25.8	NA	25.7	26.1	NA	30.4
	Chloride	mg/l	20	NA	19.3	20.2	NA	19.5	19.5	NA	18.1
	Fluoride	mg/l	< 0.3	< 0.3	0.13 J	0.31	0.22 J	0.14 J	0.28 J	0.18 J	0.16 J
	Sulfate	mg/l	2.9	NA	2.9	2.1	NA	2.4	1.6	NA	1.7
	TDS	mg/l	204	NA	243	237	NA	< 25	239	NA	202
Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	< 0.00027	< 0.00027
	Arsenic	mg/l	NA	0.00069 J	0.00075 J	0.0007 J	< 0.005	< 0.005	0.00057 J	0.00065 J	0.00051 J
	Barium	mg/l	NA	0.2	0.21	0.22	0.21	0.2	0.18	0.21	0.20
	Beryllium	mg/l	NA	< 0.003	NA	NA	< 0.003	< 0.003	< 0.003	< 0.000074	< 0.000074
	Cadmium	mg/l	NA	< 0.001	NA	NA	< 0.001	< 0.001	< 0.0025	< 0.00011	< 0.00011
	Chromium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.00039	0.00049 J
	Cobalt	mg/l	NA	< 0.01	0.0011 J	0.0013 J	0.00093 J	0.0011 J	0.00098 J	0.00092 J	0.00093 J
	Lead	mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	0.000054 J	0.000075 J
	Lithium	mg/l	NA	< 0.05	< 0.05	< 0.25 o	< 0.05	< 0.05	< 0.03	< 0.00078	< 0.00078
	Mercury	mg/l	NA	< 0.0005	NA	NA	0.000052 J	< 0.0005	< 0.0005	< 0.00014	NA
	Molybdenum	mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.00095	< 0.00095
	Combined Radium - 226/228	pCi/l	NA	0.195 U	1.02 U	0.713 U	0.543 U	0.521 U	1.16	1.04	1.01
	Selenium	mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	< 0.000052	< 0.000052	
Field	Conductivity	µS/cm	NA	453.22	NA	NA	388.1	448.1	464.3	NA	NA
	Dissolved Oxygen	mg/l	NA	0.07	NA	NA	0.1	0.1	0.09	NA	NA
	Oxidation Reduction Potential	mV	NA	-56.85	NA	NA	-100.7	-62.1	-38.7	NA	NA
	Temperature	C	NA	18.96	NA	NA	19.23	18.88	20.97	NA	NA
	Turbidity	ntu	NA	9.68	NA	NA	4.92	4.73	3.58	NA	NA

Analyte	Units	YGWC-28S	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	
		YGWC-28S (092420)	YGWC-28I (060916)	YGWC-28I (080216)	YGWC-28I (092116)	YGWC-28I (110816)	YGWC-28I (011817)	YGWC-28I (022217)	YGWC-28I (050517)	YGWC-28I (070517)	
		9/24/2020	6/9/2016	8/2/2016	9/21/2016	11/8/2016	1/18/2017	2/22/2017	5/5/2017	7/5/2017	
Appendix III	pH	SU	2.6	6.42	6.43	6.45	6.37	6.27	6.35	6.36	6.4
	Boron	mg/l	6.53	2.2	2.22	2.65	2.44	1.88	2.05	3.01	2.7
	Calcium	mg/l	30.8	36	35.5	33.2	33.8	33.4	33.8	33.5	33.4
	Chloride	mg/l	18.0	18	18	18	18	18	18	19	18
	Fluoride	mg/l	0.16	0.098 J	0.38	0.08 J	0.24 J	0.12 J	< 0.3	0.08 J	0.11 J
	Sulfate	mg/l	0.99 J	8.7	7.5	8	8.3	8	8.2	< 8.4	8.1
	TDS	mg/l	226	240	226	214	229	243	310	289	217
Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Arsenic	mg/l	< 0.00078	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	Barium	mg/l	0.18	0.1	0.0836	0.0889	0.0886	0.0862	0.0915	0.0891	0.0862
	Beryllium	mg/l	< 0.000046	< 0.0025	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003	< 0.003
	Cadmium	mg/l	< 0.00012	0.00055 J	0.0001 J	0.0001 J	0.00009 J	0.00009 J	0.0001 J	0.00009 J	0.0002 J
	Chromium	mg/l	0.00060 J	< 0.0025	0.0005 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Cobalt	mg/l	0.00085 J	0.00042 J	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
	Lead	mg/l	0.00063 J	< 0.0013	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
	Lithium	mg/l	< 0.00081	0.0073	0.0073 J	0.0067 J	0.0072 J	0.0067 J	0.0064 J	0.007 J	0.0072 J
	Mercury	mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005	< 0.0005
	Molybdenum	mg/l	0.00075 J	0.0011 J	0.0014 J	< 0.01	< 0.01	< 0.01	< 0.01	0.0014 J	0.0014 J
	Combined Radium - 226/228	pCi/l	1.25 U	0.194 U	0.331 U	0.335 U	0.245 U	0.261 U	0.516 U	0.713 U	0.292 U
	Selenium	mg/l	< 0.0016	< 0.0013	< 0.01	< 0.01	< 0.01	< 0.01	0.0012 J	< 0.01	< 0.01
Thallium	mg/l	< 0.00014	< 0.0005	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	457.11	402	412.3	402.64	416.4	412.6	394.8	417.5	400.3
	Dissolved Oxygen	mg/l	0.1	0.45	0.44	0.75	0.19	0.25	0.26	0.22	0.2
	Oxidation Reduction Potential	mV	-70.3	-32.4	7	25.26	75.7	64.2	90	-14.7	87.8
	Temperature	C	19.4	19.33	21.68	22	19.59	19.46	18.61	16.52	22.71
	Turbidity	ntu	5.3	2.9	0.86	1.33	0.26	0.13	0.56	0.8	0.5

Analyte	Units	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	YGWC-28I	
		YGWC-28I (100517)	YGWC-28I (033018)	YGWC-28I (061218)	YGWC-28I (100318)	YGWC-28I (022719)	YGWC-28I (040119)	YGWC-28I (092619)	YGWC-28I (021320)	YGWC-28I (031920)	
		10/5/2017	3/30/2018	6/12/2018	10/3/2018	2/27/2019	4/1/2019	9/26/2019	2/13/2020	3/19/2020	
Appendix III	pH	SU	6.43	6.39	6.42	6.21	6.32	6.3	6.43	6.49	7.01
	Boron	mg/l	2.53	NA	2.8	2.3	NA	2.7	2.8	NA	2.4
	Calcium	mg/l	36.4	NA	33.4	32.6	NA	33.8	32	NA	37.3
	Chloride	mg/l	19	NA	17.6	17.7	NA	17.2	17.3	NA	16.0
	Fluoride	mg/l	< 0.3	< 0.3	< 0.3	< 0.3	0.14 J	0.078 J	0.29 J	0.14 J	0.070 J
	Sulfate	mg/l	8.6	NA	8.2	8	NA	8.2	7.9	NA	9.1
	TDS	mg/l	221	NA	234	232	NA	238	241	NA	212
	Appendix IV	Antimony	mg/l	NA	< 0.003	NA	NA	< 0.003	NA	NA	< 0.00027
Arsenic		mg/l	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005	< 0.00035	< 0.00035
Barium		mg/l	NA	0.087	0.088	0.092	0.086	0.088	0.087	0.089	0.089
Beryllium		mg/l	NA	< 0.003	NA	NA	< 0.003	< 0.003	< 0.003	< 0.000074	< 0.000074
Cadmium		mg/l	NA	< 0.001	NA	NA	0.00014 J	0.00043 J	< 0.0025	0.00013 J	0.00016 J
Chromium		mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	0.00044 J	0.00047 J	< 0.00039
Cobalt		mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	< 0.005	< 0.00030	< 0.00030
Lead		mg/l	NA	< 0.005	NA	NA	< 0.005	NA	NA	< 0.000046	< 0.000046
Lithium		mg/l	NA	0.007 J	0.0073 J	0.0069 J	0.0063 J	0.0065 J	0.0064 J	0.0069 J	0.0070 J
Mercury		mg/l	NA	< 0.0005	NA	NA	0.000048 J	< 0.0005	< 0.0005	< 0.00014	NA
Molybdenum		mg/l	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01	0.0013 J	0.0013 J	0.0014 J
Combined Radium - 226/228		pCi/l	NA	0.948 U	0.869 U	0.864 U	0.947 U	0.162 U	1.06 U	1.12	0.913
Selenium		mg/l	NA	< 0.01	NA	NA	< 0.01	< 0.01	< 0.01	< 0.0013	< 0.0013
Thallium	mg/l	NA	< 0.001	NA	NA	< 0.001	NA	NA	< 0.000052	< 0.000052	
Field	Conductivity	µS/cm	NA	412.71	NA	NA	352.4	365.3	398.84	NA	NA
	Dissolved Oxygen	mg/l	NA	0.96	NA	NA	0.92	0.43	0.41	NA	NA
	Oxidation Reduction Potential	mV	NA	108.93	NA	NA	89.7	158.4	53.4	NA	NA
	Temperature	C	NA	17.01	NA	NA	19.33	19.04	24.47	NA	NA
	Turbidity	ntu	NA	1.09	NA	NA	0.2	1.1	0.49	NA	NA

Analyte	Units	YGWC-28I	YGWC-29I	YGWC-29I	YGWC-29I	YGWC-29I	
		YGWC-28I (092420)	YGWC-29I (060916)	YGWC-29I (080216)	YGWC-29I (092116)	YGWC-29I (110716)	
		9/24/2020	6/9/2016	8/2/2016	9/21/2016	11/7/2016	
Appendix III	pH	SU	2.1	6.19	6.17	6.2	6.1
	Boron	mg/l	6.41	0.88	0.872	0.853	0.815
	Calcium	mg/l	34.3	12	11.7	11.1	11.4
	Chloride	mg/l	15.1	15	14	14	14
	Fluoride	mg/l	0.073 J	0.085 J	0.09 J	0.09 J	< 0.3
	Sulfate	mg/l	7.2	33	32	32	33
	TDS	mg/l	209	150	155	138	291
Appendix IV	Antimony	mg/l	< 0.00028	< 0.0025	< 0.003	< 0.003	< 0.003
	Arsenic	mg/l	< 0.00078	< 0.0013	< 0.005	< 0.005	< 0.005
	Barium	mg/l	0.079	0.082	0.0781	0.0782	0.0712
	Beryllium	mg/l	< 0.000046	< 0.0025	< 0.003	< 0.003	< 0.003
	Cadmium	mg/l	0.00027 J	< 0.0025	0.0001 J	0.0002 J	0.0002 J
	Chromium	mg/l	< 0.00055	< 0.0025	0.0005 J	< 0.01	< 0.01
	Cobalt	mg/l	< 0.00038	0.00052 J	0.0006 J	0.0007 J	< 0.01
	Lead	mg/l	< 0.000036	< 0.0013	< 0.005	< 0.005	< 0.005
	Lithium	mg/l	0.0065 J	0.0075	0.0078 J	0.0074 J	0.0057 J
	Mercury	mg/l	NA	< 0.0002	< 0.0005	< 0.0005	< 0.0005
	Molybdenum	mg/l	0.0012 J	< 0.015	< 0.01	< 0.01	< 0.01
	Combined Radium - 226/228	pCi/l	0.470 U	0.523	1.25	1.21 U	1.16
	Selenium	mg/l	< 0.0016	< 0.0013	< 0.01	< 0.01	< 0.01
Thallium	mg/l	< 0.00014	< 0.0005	< 0.001	< 0.001	< 0.001	
Field	Conductivity	µS/cm	360.82	259.6	260.3	252.4	259.5
	Dissolved Oxygen	mg/l	0.5	0.21	0.24	0.11	0.47
	Oxidation Reduction Potential	mV	91.1	28.6	49.6	48.16	103.9
	Temperature	C	19.8	19.7	22.01	20.92	20.98
	Turbidity	ntu	1.1	1.41	0.01	1.75	0.25

Analyte	Units	YGWC-29I	YGWC-29I	YGWC-29I	YGWC-29I	YGWC-29I	YGWC-29I	YGWC-29I	YGWC-29I	YGWC-29I		
		YGWC-29I (011917)	YGWC-29I (022217)	YGWC-29I (050817)	YGWC-29I (070517)	YGWC-29I (100517)	YGWC-29I (032918)	YGWC-29I (061118)	YGWC-29I (100218)	YGWC-29I (022719)		
		1/19/2017	2/22/2017	5/8/2017	7/5/2017	10/5/2017	3/29/2018	6/11/2018	10/2/2018	2/27/2019		
Appendix III	pH	SU	6.22	6.12	6.11	6.17	6.17	6.17	6.09	6.17	6.17	6.19
	Boron	mg/l	0.803	0.855	0.884	0.811	0.851	NA	NA	0.9	0.81	NA
	Calcium	mg/l	12	11.2	11.2	11.9	12	NA	NA	12.1	11.7 J	NA
	Chloride	mg/l	14	13	15	14	15	NA	NA	13.6	13.4	NA
	Fluoride	mg/l	< 0.3	< 0.3	0.06 J	0.08 J	< 0.3	< 0.3	< 0.3	< 0.3	< 0.3	0.15 J
	Sulfate	mg/l	32	31	32	31	31	NA	NA	30.6	30.8	NA
	TDS	mg/l	145	185	114	136	139	NA	NA	156	154	NA
	Appendix IV	Antimony	mg/l	< 0.003	< 0.003	< 0.003	< 0.003	NA	< 0.003	NA	NA	NA
Arsenic		mg/l	< 0.005	< 0.005	< 0.005	< 0.005	NA	< 0.005	< 0.005	< 0.005	< 0.005	< 0.005
Barium		mg/l	0.0689	0.0741	0.0725	0.0677	NA	0.055	0.068	0.067	0.067	0.067
Beryllium		mg/l	< 0.003	< 0.003	< 0.003	< 0.003	NA	< 0.003	NA	NA	NA	< 0.003
Cadmium		mg/l	0.0001 J	0.0001 J	0.0002 J	0.0002 J	NA	< 0.001	NA	NA	NA	0.00026 J
Chromium		mg/l	< 0.01	< 0.01	< 0.01	< 0.01	NA	< 0.01	NA	NA	NA	< 0.01
Cobalt		mg/l	< 0.01	< 0.01	< 0.01	0.0003 J	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Lead		mg/l	< 0.005	< 0.005	< 0.005	< 0.005	NA	< 0.005	NA	NA	NA	< 0.005
Lithium		mg/l	0.0055 J	0.0063 J	0.0066 J	0.0058 J	NA	0.0049 J	0.0064 J	0.006 J	0.006 J	0.0053 J
Mercury		mg/l	< 0.0005	< 0.0005	< 0.0005	< 0.0005	NA	< 0.0005	NA	NA	NA	0.000047 J
Molybdenum		mg/l	< 0.01	< 0.01	< 0.01	< 0.01	NA	< 0.01	< 0.01	< 0.01	< 0.01	< 0.01
Combined Radium - 226/228		pCi/l	0.933 U	1.45 U	0.21 U	0.62 U	NA	1.37	1.27 U	0.442 U	0.442 U	0.902 U
Selenium		mg/l	< 0.01	< 0.01	< 0.01	< 0.01	NA	< 0.01	NA	NA	NA	< 0.01
Thallium	mg/l	< 0.001	< 0.001	< 0.001	< 0.001	NA	< 0.001	NA	NA	NA	< 0.001	
Field	Conductivity	µS/cm	285	252.2	268.8	257.8	NA	263.67	NA	NA	NA	243
	Dissolved Oxygen	mg/l	0.35	0.41	0.28	0.26	NA	0.46	NA	NA	NA	0.2
	Oxidation Reduction Potential	mV	-10.8	98.9	13.1	79.5	NA	86.94	NA	NA	NA	51
	Temperature	C	19.41	17.72	19.5	21.77	NA	20.66	NA	NA	NA	18.03
	Turbidity	ntu	0.59	0.39	0.48	0.42	NA	0.72	NA	NA	NA	1.02

Analyte	Units	YGWC-29I	YGWC-29I	YGWC-29I	YGWC-29I	YGWC-29I	
		YGWC-29I (040119)	YGWC-29I (092519)	YGWC-29I (021320)	YGWC-29I (032020)	YGWC-29I (092420)	
		4/1/2019	9/25/2019	2/13/2020	3/20/2020	9/24/2020	
Appendix III	pH	SU	6.03	6.21	6.32	6.17	0.84
	Boron	mg/l	0.85	0.73	NA	0.80	6.20
	Calcium	mg/l	11.9 J	10.7	NA	12.7	12.4
	Chloride	mg/l	13.1	11.3	NA	11.3	10.9
	Fluoride	mg/l	0.059 J	0.054 J	0.053 J	0.057 J	0.060 J
	Sulfate	mg/l	30.4	30	NA	33.0	26.2
	TDS	mg/l	147	162	NA	137	133
	Appendix IV	Antimony	mg/l	NA	NA	< 0.00027	< 0.00027
Arsenic		mg/l	< 0.005	< 0.005	< 0.00035	< 0.00035	< 0.00078
Barium		mg/l	0.063	0.061	0.053	0.057	0.056
Beryllium		mg/l	< 0.003	< 0.003	< 0.000074	< 0.000074	< 0.000046
Cadmium		mg/l	0.00022 J	0.00024 J	0.00018 J	0.00022 J	0.00033 J
Chromium		mg/l	< 0.01	< 0.01	< 0.00039	< 0.00039	< 0.00055
Cobalt		mg/l	< 0.01	< 0.005	< 0.00030	< 0.00030	< 0.00038
Lead		mg/l	NA	NA	< 0.000046	< 0.000046	0.000095 J
Lithium		mg/l	0.0052 J	0.0057 J	0.0057 J	0.0051 J	0.0050 J
Mercury		mg/l	0.000039 J	< 0.0005	< 0.00014	NA	NA
Molybdenum		mg/l	< 0.01	< 0.01	< 0.00095	< 0.00095	< 0.00069
Combined Radium - 226/228		pCi/l	0.584 U	1.03 U	0.806	1.42	1.44 U
Selenium		mg/l	< 0.01	< 0.01	< 0.0013	< 0.0013	< 0.0016
Thallium		mg/l	NA	NA	< 0.000052	< 0.000052	< 0.00014
Field	Conductivity	µS/cm	248.9	252.13	NA	NA	234.44
	Dissolved Oxygen	mg/l	0.41	0.61	NA	NA	0.1
	Oxidation Reduction Potential	mV	136.6	68.7	NA	NA	109.9
	Temperature	C	18.72	27.94	NA	NA	18.9
	Turbidity	ntu	0.4	0.52	NA	NA	0

Notes:

1. Analytical results are reported in milligrams per liter except for combined radium results, which are reported in picoCuries per liter and pH in standard units.
2. Appendix III = Indicator parameters evaluated during Detection Monitoring.
3. Appendix IV = Parameters evaluated during Assessment Monitoring.
4. NA = Not analyzed for this constituent.
5. < Analyte was not detected above the laboratory method detection limit (MDL).
6. Detections are in **bold**

Acronyms and Abbreviations:

TDS = Total Dissolved Solids
ntu = nephelometric turbidity units
pCi/L = picoCuries per liter
mg/L = milligrams per liter
mV = millivolts
C = Celsius
S.U. = standard units

Laboratory Qualifiers:

J = Estimated concentration above the method detection limit and below the reporting limit.
U = The substance was detected below the Minimum Detection Concentration (MDC) and the precision of the laboratory instruments could not

APPENDIX D

Statistical Analyses



Appendix III Statistically Significant Increase Summary (March 2020)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Calcium	YGWC-27S
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Sulfate	YGWC-26I, YGWC-26S, YGWC-27S, YGWC-29I

Appendix III Statistically Significant Increase Summary (September 2020)

Appendix III Parameter	Monitoring Wells
Boron	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Calcium	YGWC-27S
Chloride	YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I
Total Dissolved Solids	YGWC-28S

March 2020
Semiannual Event

GROUNDWATER STATS CONSULTING

August 26, 2020

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, GA 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)
Statistical Analysis March 2020

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide March 2020 Semi-Annual Groundwater Monitoring and Corrective Action Statistical summary of the analysis of groundwater data 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 Rules for Solid Waste Management Chapter 391-3-4-.10, and follows the 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 well:** YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWA-14S, and YGWA-30I
- **Downgradient wells:** YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, and YGWC-29I

Data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting.

The CCR program consists of the following constituents:

- **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. Statistical analysis of mercury at all wells will be provided in an addendum to this report when the results are received from the laboratory. A summary of well/constituent pairs with 100% nondetects follows this letter.

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).

A substitution of the most recent reporting limit is used for nondetect data. In the case of cobalt and lithium, due to varying detection limits, the most recent reporting limits of 0.005 mg/L and 0.03 mg/L were substituted, respectively, across all wells.

In earlier analyses, data at all wells were evaluated for the following: 1) outliers; 2) trends; 3) most appropriate statistical method for Appendix III parameters based on site characteristics of groundwater data upgradient of the facility; and 4) eligibility of downgradient wells when intrawell statistical methods are recommended. Power curves were provided with the previous screening to demonstrate that the selected statistical methods for Appendix III parameters comply with the USEPA Unified Guidance. The EPA suggests the selected statistical method should provide at least 55% power at 3 standard deviations or at least 80% power at 4 standard deviations.

Summary of Statistical Methods – Appendix III Parameters:

Based on the earlier evaluation described above, the following method was selected:

- Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS

Parametric prediction limits 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 nondetects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. After testing for normality and performing any adjustments as discussed below (US EPA, 2009), data are analyzed using either parametric or non-parametric prediction limits.

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.
- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Conducted in October 2017

Outlier and Trend Testing

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 this analysis, data were screened for the purpose of updating the statistical limits as described below.

Time series plots are used to identify suspected outliers, or extreme values that would result in limits that are not representative of the current background data population. Suspected outliers at upgradient wells for Appendix III and all wells for Appendix IV parameters are formally tested using Tukey's box plot method and, when identified, flagged in the computer database with "o" and deselected prior to construction of statistical limits.

Using the Tukey box plot method, a couple outliers were identified. While this is not the case in the present data set, when the most recent value is identified as an outlier, values are not flagged in the database at this time as they may represent a possible trend. If future values do not remain at similar concentrations, these values will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Only one of the outliers identified by Tukey's method 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 nondetects. 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 Regional Screening Levels discussed below, nondetects were substituted with one half the reporting limit. An updated summary of outliers and Tukey's test results follows this letter (Figure C).

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall trend test was used to evaluate all data at upgradient wells for Appendix III parameters and all wells for Appendix IV parameters 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 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 + 288, 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.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) is typically used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for

intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – March 2020

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical upgradient well data through March 2020 (Figure E). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared to the background limit to determine whether there are statistically significant increases (SSIs).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. Several prediction limit exceedances were noted for Appendix III parameters. A summary table of the interwell prediction limits follows this letter.

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure 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 which is an indication of natural variability in groundwater unrelated to practices at the site. Statistically significant increasing trends were noted for calcium and sulfate in upgradient well YGWA-1D, and sulfate in upgradient well YGWA-3D. Statistically significant decreasing trends were noted for calcium in upgradient well YGWA-14S, chloride in downgradient wells YGWC-26S, YGWC-27S, and YGWC-29I, and sulfate in downgradient wells YGWC-27S and YGWC-29I. A summary of the trend test results follows this letter.

Statistical Analysis of Appendix IV Parameters – March 2020

Interwell tolerance limits were used to calculate the site-specific background limits from pooled upgradient well data for Appendix IV constituents (Figure G). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution such as for

barium and radium. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

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

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the March 2020 sample event for the federal and state rules (Figures H and I, respectively). To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents in accordance with the federal and state requirements in each downgradient well (Figures J and K, respectively). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. For both federal and state confidence intervals, no exceedances were noted. Summaries of the confidence intervals follow this letter.

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
Groundwater Analyst



Kristina L. Rayner
Groundwater Statistician

100% Nondetect Well-Constituent Pairs

Date: 5/13/2020 10:39 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L)

YGWA-30I, YGWA-3I, YGWC-28I, YGWC-28S, YGWC-29I

Arsenic (mg/L)

YGWA-14S, YGWC-26I, YGWC-26S, YGWC-27S, YGWC-28I, YGWC-29I

Beryllium (mg/L)

YGWA-1D, YGWA-1I, YGWA-2I, YGWA-3D, YGWA-3I, YGWC-26I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Cadmium (mg/L)

YGWA-1I, YGWA-2I, YGWA-30I, YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28S

Chromium (mg/L)

YGWA-14S, YGWC-27I

Cobalt (mg/L)

YGWA-14S, YGWA-1D, YGWA-2I, YGWA-3D, YGWA-3I, YGWC-26I

Lead (mg/L)

YGWA-1I, YGWA-2I, YGWA-30I, YGWA-3I, YGWC-27I, YGWC-28I, YGWC-29I

Lithium (mg/L)

YGWA-14S, YGWC-26S, YGWC-27S, YGWC-28S

Mercury (mg/L)

YGWA-2I

Molybdenum (mg/L)

YGWA-14S, YGWA-30I, YGWC-26I, YGWC-26S, YGWC-27S, YGWC-29I

Selenium (mg/L)

YGWA-1D, YGWA-1I, YGWA-2I, YGWA-30I, YGWA-3D, YGWA-3I, YGWC-27I, YGWC-27S, YGWC-29I

Thallium (mg/L)

YGWA-1D, YGWA-2I, YGWA-30I, YGWA-3I, YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S, YGWC-29I

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:53 PM

YGWC-261 Combined Radium 226 + 228 (pCi/L)

6/8/2016

6.68 (o)

Appendix III Tukey's Outlier Analysis - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/11/2020, 4:19 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Method</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Chloride (mg/L)	YGWA-14S, YGWA-1D, ...	Yes	4.1, 4.1, 4.1, 4.1, 4.2, 4.2, 4.2, 4.2, 4.9, 3.7, 3.8, 3.8, 4.8, 5.2	NP	98	1.748	1.054	normal	ShapiroFrancia

Appendix III Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/11/2020, 4:19 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Method</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Boron (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	98	0.02735	0.01509	normal	ShapiroFrancia
Calcium (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	98	13.21	11.18	normal	ShapiroFrancia
Chloride (mg/L)	YGWA-14S, YGWA-1D, ...	Yes	4.1, 4.1, 4.1, 4.1, 4.2, 4.2, 4.2, 4.2, 4.9, 3.7, 3.8, 3.8, 4.8, 5.2	NP	98	1.748	1.054	normal	ShapiroFrancia
Fluoride (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	119	0.2586	0.1406	normal	ChiSquared
pH (S.U.)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	119	6.687	0.8682	normal	ChiSquared
Sulfate (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	98	6.415	3.211	normal	ShapiroFrancia
Total Dissolved Solids (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	98	100.5	50.19	normal	ShapiroFrancia

Appendix IV Tukey's Outlier Analysis - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	YGWA-1D (bg)	Yes	0.005,0.005	9/13/2016,11/1/2016	NP	16	0.002011	0.001242	normal	ShapiroWilk
Barium (mg/L)	YGWA-30I (bg)	Yes	0.005	3/27/2018	NP	16	0.006975	0.0006245	normal	ShapiroWilk
Barium (mg/L)	YGWC-28I	Yes	0.1	6/9/2016	NP	16	0.08876	0.003645	normal	ShapiroWilk
Beryllium (mg/L)	YGWA-14S (bg)	Yes	0.003,0.003	6/2/2016,3/27/2018	NP	14	0.0005936	0.00102	normal	ShapiroWilk
Beryllium (mg/L)	YGWC-26S	Yes	0.003,0.003	6/8/2016,3/30/2018	NP	14	0.000565	0.001032	normal	ShapiroWilk
Cadmium (mg/L)	YGWC-28I	Yes	0.0025,0.0025	3/30/2018,9/26/2019	NP	14	0.0005129	0.0008531	normal	ShapiroWilk
Cadmium (mg/L)	YGWC-29I	Yes	0.001,0.001	6/9/2016,3/29/2018	NP	14	0.0003014	0.0003003	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-27S	Yes	0.005	3/29/2018	NP	16	0.002544	0.0006723	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-28S	Yes	0.005	3/30/2018	NP	16	0.001263	0.001007	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	Yes	6.68	6/8/2016	NP	16	1.223	1.549	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-26S	Yes	0.03,0.44,0.16,0.044	9/20/2016,11/7/2016,5/3/2017,6/13/2018	NP	17	0.2685	0.1021	normal	ShapiroWilk
Lithium (mg/L)	YGWA-1I (bg)	Yes	0.03,0.03,0.03	6/1/2016,9/13/2016,11/4/2016	NP	16	0.007525	0.01115	normal	ShapiroWilk
Lithium (mg/L)	YGWA-2I (bg)	Yes	0.03,0.03	11/4/2016,10/1/2018	NP	16	0.005694	0.00953	normal	ShapiroWilk
Selenium (mg/L)	YGWC-26I	Yes	0.01,0.01	5/8/2017,3/30/2018	NP	14	0.003071	0.002941	normal	ShapiroWilk

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	12	0.002792	0.0007217	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-1D (bg)	No n/a	n/a	NP	12	0.001932	0.001151	normal	ShapiroWilk
Antimony (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	12	0.002675	0.0008081	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	12	0.002072	0.001193	normal	ShapiroWilk
Antimony (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-3D (bg)	No n/a	n/a	NP	12	0.002512	0.0008862	normal	ShapiroWilk
Antimony (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-26I	n/a n/a	n/a	NP	12	0.002593	0.0009518	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-26S	n/a n/a	n/a	NP	12	0.002775	0.0005259	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-27I	n/a n/a	n/a	NP	12	0.002778	0.0007708	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-27S	n/a n/a	n/a	NP	12	0.002775	0.0007794	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-28I	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-28S	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-29I	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-1D (bg)	Yes 0.005,0.005	9/13/2016,11/1/2016	NP	16	0.002011	0.001242	normal	ShapiroWilk
Arsenic (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	16	0.004719	0.001125	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	16	0.001963	0.001503	normal	ShapiroWilk
Arsenic (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	16	0.004887	0.00045	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	16	0.004656	0.001097	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	16	0.004412	0.001453	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-26I	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-26S	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-27I	No n/a	n/a	NP	16	0.00284	0.002236	normal	ShapiroWilk
Arsenic (mg/L)	YGWC-27S	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-28I	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-28S	No n/a	n/a	NP	16	0.002844	0.002228	normal	ShapiroWilk
Arsenic (mg/L)	YGWC-29I	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Barium (mg/L)	YGWA-14S (bg)	No n/a	n/a	NP	16	0.007575	0.001019	normal	ShapiroWilk
Barium (mg/L)	YGWA-1D (bg)	No n/a	n/a	NP	16	0.006844	0.0009647	normal	ShapiroWilk
Barium (mg/L)	YGWA-1I (bg)	No n/a	n/a	NP	16	0.008769	0.001662	normal	ShapiroWilk
Barium (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	16	0.004119	0.0008296	normal	ShapiroWilk
Barium (mg/L)	YGWA-30I (bg)	Yes 0.005	3/27/2018	NP	16	0.006975	0.0006245	normal	ShapiroWilk
Barium (mg/L)	YGWA-3D (bg)	No n/a	n/a	NP	16	0.007312	0.00137	normal	ShapiroWilk
Barium (mg/L)	YGWA-3I (bg)	No n/a	n/a	NP	16	0.003531	0.0006916	normal	ShapiroWilk
Barium (mg/L)	YGWC-26I	No n/a	n/a	NP	16	0.06526	0.002713	normal	ShapiroWilk
Barium (mg/L)	YGWC-26S	No n/a	n/a	NP	16	0.02756	0.0017	normal	ShapiroWilk
Barium (mg/L)	YGWC-27I	No n/a	n/a	NP	16	0.06765	0.006649	normal	ShapiroWilk
Barium (mg/L)	YGWC-27S	No n/a	n/a	NP	16	0.1018	0.007225	normal	ShapiroWilk
Barium (mg/L)	YGWC-28I	Yes 0.1	6/9/2016	NP	16	0.08876	0.003645	normal	ShapiroWilk
Barium (mg/L)	YGWC-28S	No n/a	n/a	NP	16	0.2102	0.01155	normal	ShapiroWilk
Barium (mg/L)	YGWC-29I	No n/a	n/a	NP	16	0.06773	0.008408	normal	ShapiroWilk
Beryllium (mg/L)	YGWA-14S (bg)	Yes 0.003,0.003	6/2/2016,3/27/2018	NP	14	0.0005936	0.00102	normal	ShapiroWilk
Beryllium (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	14	0.002791	0.0007825	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWC-26I	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWC-26S	Yes 0.003,0.003	6/8/2016,3/30/2018	NP	14	0.0005565	0.001032	normal	ShapiroWilk
Beryllium (mg/L)	YGWC-27I	No n/a	n/a	NP	14	0.0007907	0.001198	normal	ShapiroWilk
Beryllium (mg/L)	YGWC-27S	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWC-28I	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Beryllium (mg/L)	YGWC-29I	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	14	0.002326	0.0006494	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	14	0.002336	0.0006147	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	14	0.002329	0.0006414	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	14	0.002327	0.0006468	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-26I	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-26S	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-27I	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-27S	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-28I	Yes 0.0025,0.0025	3/30/2018,9/26/2019	NP	14	0.0005129	0.0008531	normal	ShapiroWilk
Cadmium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-29I	Yes 0.001,0.001	6/9/2016,3/29/2018	NP	14	0.0003014	0.0003003	normal	ShapiroWilk
Chromium (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-1D (bg)	No n/a	n/a	NP	14	0.006884	0.004394	normal	ShapiroWilk
Chromium (mg/L)	YGWA-1I (bg)	No n/a	n/a	NP	14	0.007553	0.004057	normal	ShapiroWilk
Chromium (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	14	0.007956	0.004062	normal	ShapiroWilk
Chromium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	14	0.0094	0.002245	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-3D (bg)	No n/a	n/a	NP	14	0.008093	0.003794	normal	ShapiroWilk
Chromium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	14	0.008736	0.003227	unknown	ShapiroWilk
Chromium (mg/L)	YGWC-26I	No n/a	n/a	NP	14	0.006294	0.004571	normal	ShapiroWilk
Chromium (mg/L)	YGWC-26S	No n/a	n/a	NP	14	0.003943	0.003491	normal	ShapiroWilk
Chromium (mg/L)	YGWC-27I	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Chromium (mg/L)	YGWC-27S	n/a n/a	n/a	NP	14	0.009679	0.002959	unknown	ShapiroWilk
Chromium (mg/L)	YGWC-28I	No n/a	n/a	NP	14	0.007958	0.004058	normal	ShapiroWilk
Chromium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	14	0.008642	0.003452	unknown	ShapiroWilk
Chromium (mg/L)	YGWC-29I	n/a n/a	n/a	NP	14	0.009321	0.002539	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-1I (bg)	No n/a	n/a	NP	16	0.001871	0.001406	normal	ShapiroWilk
Cobalt (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-30I (bg)	No n/a	n/a	NP	16	0.02335	0.005626	normal	ShapiroWilk
Cobalt (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWC-26I	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWC-26S	No n/a	n/a	NP	16	0.0025	0.0008446	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-27I	No n/a	n/a	NP	16	0.02107	0.02867	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-27S	Yes 0.005	3/29/2018	NP	16	0.002544	0.0006723	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-28I	n/a n/a	n/a	NP	16	0.004714	0.001145	unknown	ShapiroWilk
Cobalt (mg/L)	YGWC-28S	Yes 0.005	3/30/2018	NP	16	0.001263	0.001007	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-29I	No n/a	n/a	NP	16	0.003882	0.002	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-14S (bg)	No n/a	n/a	NP	16	0.5584	0.4684	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-1D (bg)	No n/a	n/a	NP	16	0.8898	0.3394	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-1I (bg)	No n/a	n/a	NP	16	0.7925	0.7051	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-2I (bg)	No n/a	n/a	NP	16	0.5056	0.2716	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-30I (bg)	No n/a	n/a	NP	16	0.7335	0.6871	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-3D (bg)	No n/a	n/a	NP	16	3.386	0.6987	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-3I (bg)	No n/a	n/a	NP	16	1.509	0.8338	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	Yes 6.68	6/8/2016	NP	16	1.223	1.549	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	No n/a	n/a	NP	16	0.7387	0.2913	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	No n/a	n/a	NP	16	3.596	1.038	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	No n/a	n/a	NP	16	0.8785	0.3209	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	No n/a	n/a	NP	16	0.6106	0.348	normal	ShapiroWilk

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	No	n/a	n/a	NP	16	0.6791	0.365	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	No	n/a	n/a	NP	16	0.9488	0.384	normal	ShapiroWilk
Fluoride (mg/L)	YGWA-14S (bg)	n/a	n/a	n/a	NP	17	0.2835	0.06791	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-1D (bg)	No	n/a	n/a	NP	17	0.1489	0.117	normal	ShapiroWilk
Fluoride (mg/L)	YGWA-1I (bg)	n/a	n/a	n/a	NP	17	0.2688	0.08845	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-2I (bg)	No	n/a	n/a	NP	17	0.1541	0.1002	normal	ShapiroWilk
Fluoride (mg/L)	YGWA-30I (bg)	n/a	n/a	n/a	NP	17	0.2859	0.05821	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-3D (bg)	No	n/a	n/a	NP	17	0.5029	0.06789	normal	ShapiroWilk
Fluoride (mg/L)	YGWA-3I (bg)	No	n/a	n/a	NP	17	0.1761	0.08801	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-26I	No	n/a	n/a	NP	17	0.1822	0.1152	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-26S	Yes	0.03,0.44,0.16,0.044	9/20/2016,11/7/2016,5/3/2017,6/13/2018	NP	17	0.2685	0.1021	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-27I	No	n/a	n/a	NP	17	0.2394	0.09945	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-27S	No	n/a	n/a	NP	17	0.2113	0.1111	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-28I	No	n/a	n/a	NP	17	0.1956	0.1074	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-28S	No	n/a	n/a	NP	17	0.2465	0.09239	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-29I	No	n/a	n/a	NP	17	0.1693	0.1149	normal	ShapiroWilk
Lead (mg/L)	YGWA-14S (bg)	n/a	n/a	n/a	NP	12	0.004592	0.001415	unknown	ShapiroWilk
Lead (mg/L)	YGWA-1D (bg)	No	n/a	n/a	NP	12	0.002994	0.002482	normal	ShapiroWilk
Lead (mg/L)	YGWA-1I (bg)	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWA-2I (bg)	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWA-30I (bg)	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWA-3D (bg)	No	n/a	n/a	NP	12	0.003019	0.00245	normal	ShapiroWilk
Lead (mg/L)	YGWA-3I (bg)	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWC-26I	n/a	n/a	n/a	NP	12	0.004588	0.001426	unknown	ShapiroWilk
Lead (mg/L)	YGWC-26S	n/a	n/a	n/a	NP	12	0.004182	0.001911	unknown	ShapiroWilk
Lead (mg/L)	YGWC-27I	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWC-27S	No	n/a	n/a	NP	12	0.003779	0.002209	normal	ShapiroWilk
Lead (mg/L)	YGWC-28I	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWC-28S	No	n/a	n/a	NP	12	0.003767	0.002231	normal	ShapiroWilk
Lead (mg/L)	YGWC-29I	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWA-14S (bg)	n/a	n/a	n/a	NP	16	0.03	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWA-1D (bg)	No	n/a	n/a	NP	16	0.01147	0.003797	normal	ShapiroWilk
Lithium (mg/L)	YGWA-1I (bg)	Yes	0.03,0.03,0.03	6/1/2016,9/13/2016,11/4/2016	NP	16	0.007525	0.01115	normal	ShapiroWilk
Lithium (mg/L)	YGWA-2I (bg)	Yes	0.03,0.03	11/4/2016,10/1/2018	NP	16	0.005694	0.00953	normal	ShapiroWilk
Lithium (mg/L)	YGWA-30I (bg)	No	n/a	n/a	NP	16	0.01737	0.01479	normal	ShapiroWilk
Lithium (mg/L)	YGWA-3D (bg)	No	n/a	n/a	NP	16	0.01969	0.001571	normal	ShapiroWilk
Lithium (mg/L)	YGWA-3I (bg)	No	n/a	n/a	NP	16	0.01152	0.001838	normal	ShapiroWilk
Lithium (mg/L)	YGWC-26I	No	n/a	n/a	NP	16	0.006738	0.000438	normal	ShapiroWilk
Lithium (mg/L)	YGWC-26S	n/a	n/a	n/a	NP	16	0.03	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWC-27I	No	n/a	n/a	NP	16	0.009631	0.001871	normal	ShapiroWilk
Lithium (mg/L)	YGWC-27S	n/a	n/a	n/a	NP	16	0.03	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWC-28I	No	n/a	n/a	NP	16	0.006881	0.0003449	normal	ShapiroWilk
Lithium (mg/L)	YGWC-28S	n/a	n/a	n/a	NP	16	0.03	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWC-29I	No	n/a	n/a	NP	16	0.006056	0.0008839	normal	ShapiroWilk
Mercury (mg/L)	YGWA-14S (bg)	n/a	n/a	n/a	NP	13	0.0004662	0.0001218	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-1D (bg)	n/a	n/a	n/a	NP	13	0.0004301	0.0001707	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-1I (bg)	n/a	n/a	n/a	NP	13	0.0004657	0.0001237	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-2I (bg)	n/a	n/a	n/a	NP	13	0.0005	0	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-30I (bg)	n/a	n/a	n/a	NP	13	0.0004346	0.0001596	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-3D (bg)	n/a	n/a	n/a	NP	13	0.0004352	0.0001583	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-3I (bg)	n/a	n/a	n/a	NP	13	0.0004342	0.0001606	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-26I	n/a	n/a	n/a	NP	13	0.0004309	0.0001686	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-26S	n/a	n/a	n/a	NP	13	0.0004319	0.0001662	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-27I	n/a	n/a	n/a	NP	13	0.0004307	0.0001692	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-27S	n/a	n/a	n/a	NP	13	0.00043	0.0001709	unknown	ShapiroWilk

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Mercury (mg/L)	YGWC-28I	n/a n/a	n/a	NP	13	0.0004652	0.0001254	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-28S	n/a n/a	n/a	NP	13	0.0004655	0.0001243	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-29I	n/a n/a	n/a	NP	13	0.0004297	0.0001716	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-1D (bg)	No n/a	n/a	NP	16	0.009763	0.00193	normal	ShapiroWilk
Molybdenum (mg/L)	YGWA-1I (bg)	No n/a	n/a	NP	16	0.008581	0.001688	normal	ShapiroWilk
Molybdenum (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	16	0.004694	0.001233	normal	ShapiroWilk
Molybdenum (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-3D (bg)	No n/a	n/a	NP	16	0.011103	0.001161	normal	ShapiroWilk
Molybdenum (mg/L)	YGWA-3I (bg)	No n/a	n/a	NP	16	0.004338	0.002047	normal	ShapiroWilk
Molybdenum (mg/L)	YGWC-26I	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWC-26S	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWC-27I	No n/a	n/a	NP	16	0.006756	0.004328	normal	ShapiroWilk
Molybdenum (mg/L)	YGWC-27S	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWC-28I	No n/a	n/a	NP	16	0.006206	0.004443	normal	ShapiroWilk
Molybdenum (mg/L)	YGWC-28S	n/a n/a	n/a	NP	16	0.008831	0.003194	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWC-29I	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-14S (bg)	No n/a	n/a	NP	14	0.006943	0.00426	normal	ShapiroWilk
Selenium (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-26I	Yes 0.01,0.01	5/8/2017,3/30/2018	NP	14	0.003071	0.002941	normal	ShapiroWilk
Selenium (mg/L)	YGWC-26S	No n/a	n/a	NP	14	0.00745	0.004192	normal	ShapiroWilk
Selenium (mg/L)	YGWC-27I	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-27S	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-28I	n/a n/a	n/a	NP	14	0.009371	0.002352	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	14	0.009357	0.002405	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-29I	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	12	0.0009241	0.000263	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	12	0.0009213	0.0002728	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	12	0.000925	0.0002598	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-26I	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-26S	n/a n/a	n/a	NP	12	0.0008427	0.0003675	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-27I	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-27S	No n/a	n/a	NP	12	0.0005525	0.0004674	normal	ShapiroWilk
Thallium (mg/L)	YGWC-28I	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-29I	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk

Upgradient Wells Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:38 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	YGWA-14S (bg)	-0.05271	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1D (bg)	1.11	48	44	Yes	14	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.02531	-61	-58	Yes	17	5.882	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-1D (bg)	-0.1114	-61	-58	Yes	17	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.261	51	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.7245	46	44	Yes	14	0	n/a	n/a	0.02	NP

Upgradient Wells Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.002489	-37	-44	No	14	14.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-1D (bg)	-0.001025	-26	-44	No	14	14.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-1I (bg)	0	-33	-44	No	14	64.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-2I (bg)	0	-26	-44	No	14	71.43	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-44	No	14	85.71	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-3D (bg)	0	-13	-44	No	14	57.14	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-3I (bg)	0	-13	-44	No	14	92.86	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.05271	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1D (bg)	1.11	48	44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1025	-37	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-2I (bg)	0.9579	31	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-30I (bg)	-0.0134	-7	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-3D (bg)	1.219	40	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-3I (bg)	0.4381	18	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-14S (bg)	0	6	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-11	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-1I (bg)	0	-5	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03701	-16	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-30I (bg)	0	4	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.07067	-33	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.04953	-37	-44	No	14	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-14S (bg)	0	14	58	No	17	94.12	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-1D (bg)	-0.004818	-21	-58	No	17	35.29	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-1I (bg)	0	17	58	No	17	88.24	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-2I (bg)	0	6	58	No	17	23.53	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-30I (bg)	0	14	58	No	17	94.12	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.02531	-61	-58	Yes	17	5.882	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3I (bg)	-0.01022	-25	-58	No	17	29.41	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-14S (bg)	-0.01066	-20	-58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-1D (bg)	-0.1114	-61	-58	Yes	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-1I (bg)	-0.04218	-52	-58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-2I (bg)	-0.03531	-21	-58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-30I (bg)	0.005933	5	58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-3D (bg)	-0.0353	-29	-58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-3I (bg)	-0.07822	-46	-58	No	17	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.3425	40	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.261	51	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.1237	-7	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-2I (bg)	0	0	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.05321	-7	-44	No	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.7245	46	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6413	31	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	1.727	9	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	5.856	18	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-0.6315	-3	-44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-3.471	-25	-44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	4.021	23	44	No	14	14.29	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	4.214	14	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	1.372	6	44	No	14	0	n/a	n/a	0.02	NP

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Barium (mg/L)	YGWA-3D (bg)	-0.0008036	-74	-53	Yes	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-26S	-0.00108	-80	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-27I	-0.003166	-59	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-27S	-0.003589	-78	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-28S	-0.005296	-59	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-29I	-0.00565	-93	-53	Yes	16	0	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003763	-111	-53	Yes	16	0	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-27I	0.003813	63	53	Yes	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.206	64	53	Yes	16	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.02531	-61	-58	Yes	17	5.882	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-30I (bg)	-0.007672	-54	-53	Yes	16	56.25	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-29I	-0.0005137	-61	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-1D (bg)	-0.0008772	-70	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-1I (bg)	-0.001096	-76	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-3D (bg)	0.0008155	70	53	Yes	16	0	n/a	n/a	0.02	NP

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (mg/L)	YGWA-14S (bg)	0	9	35	No	12	91.67	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-1D (bg)	0	7	35	No	12	50	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-1I (bg)	0	-13	-35	No	12	83.33	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-2I (bg)	-0.00002578	-21	-35	No	12	58.33	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-30I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-3D (bg)	0	2	35	No	12	66.67	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-3I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-26I	0	-19	-35	No	12	83.33	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-26S	0	-19	-35	No	12	83.33	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-27I	0	-11	-35	No	12	91.67	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-27S	0	-11	-35	No	12	91.67	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-28I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-28S	0	0	35	No	12	100	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-29I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-14S (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-1D (bg)	-0.0002127	-51	-53	No	16	12.5	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-1I (bg)	0	-13	-53	No	16	93.75	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-2I (bg)	-0.0003521	-40	-53	No	16	12.5	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-30I (bg)	0	-13	-53	No	16	93.75	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-3D (bg)	0	-11	-53	No	16	87.5	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-3I (bg)	0	-4	-53	No	16	81.25	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-26I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-26S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-27I	-0.00007048	-39	-53	No	16	50	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-27S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-28I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-28S	-0.00009908	-51	-53	No	16	50	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-29I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-14S (bg)	-0.0004179	-47	-53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-1D (bg)	0.0001166	12	53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-1I (bg)	-0.0003284	-20	-53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-2I (bg)	-0.0003414	-44	-53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-30I (bg)	0.0000627	18	53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-3D (bg)	-0.0008036	-74	-53	Yes	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-3I (bg)	0	-4	-53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-26I	-0.001377	-50	-53	No	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-26S	-0.00108	-80	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-27I	-0.003166	-59	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-27S	-0.003589	-78	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-28I	0	0	53	No	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-28S	-0.005296	-59	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-29I	-0.00565	-93	-53	Yes	16	0	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-14S (bg)	0	-21	-44	No	14	14.29	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-1D (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-1I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-2I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-30I (bg)	0	-5	-44	No	14	92.86	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-3D (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-3I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-26I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-26S	-0.00001414	-24	-44	No	14	14.29	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-27I	0.000003256	15	44	No	14	21.43	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-27S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-28I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-28S	0	0	44	No	14	100	n/a	n/a	0.02	NP

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	YGWC-29I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-14S (bg)	0	3	44	No	14	92.86	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-1D (bg)	0	5	44	No	14	92.86	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-1I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-2I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-30I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-3D (bg)	0	5	44	No	14	92.86	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-3I (bg)	0	5	44	No	14	92.86	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-26I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-26S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-27I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-27S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-28I	0.00001653	24	44	No	14	14.29	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-28S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-29I	0.000006972	16	44	No	14	14.29	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-14S (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-1D (bg)	0	-23	-44	No	14	64.29	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-1I (bg)	0	-24	-44	No	14	71.43	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-2I (bg)	0	-6	-44	No	14	78.57	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-30I (bg)	0	1	44	No	14	92.86	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-3D (bg)	0	8	44	No	14	78.57	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-3I (bg)	0	-5	-44	No	14	85.71	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-26I	-0.00005034	-29	-44	No	14	57.14	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-26S	-0.0000347	-9	-44	No	14	21.43	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-27I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-27S	0	-7	-44	No	14	85.71	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-28I	0	-10	-44	No	14	78.57	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-28S	0	-3	-44	No	14	85.71	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-29I	0	11	44	No	14	92.86	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-14S (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-1D (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-1I (bg)	-0.000004271	-1	-53	No	16	12.5	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-2I (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003763	-111	-53	Yes	16	0	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-3D (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-3I (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-26I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-26S	-0.0002527	-44	-53	No	16	6.25	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-27I	0.003813	63	53	Yes	16	0	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-27S	-0.00006569	-38	-53	No	16	6.25	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-28I	0	15	53	No	16	93.75	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-28S	0.00003557	17	53	No	16	6.25	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-29I	0	40	53	No	16	75	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-14S (bg)	-0.05778	-22	-53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-1D (bg)	0.1682	51	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-1I (bg)	0.08289	14	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-2I (bg)	0.08716	28	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-30I (bg)	0.09857	31	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-3D (bg)	0.2698	38	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-3I (bg)	0.3365	43	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	0.3153	45	48	No	15	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.06116	34	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	0.4428	40	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.1318	40	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.206	64	53	Yes	16	0	n/a	n/a	0.02	NP

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.1341	34	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	-0.01224	-2	-53	No	16	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-14S (bg)	0	14	58	No	17	94.12	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-1D (bg)	-0.004818	-21	-58	No	17	35.29	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-1I (bg)	0	17	58	No	17	88.24	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-2I (bg)	0	6	58	No	17	23.53	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-30I (bg)	0	14	58	No	17	94.12	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.02531	-61	-58	Yes	17	5.882	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3I (bg)	-0.01022	-25	-58	No	17	29.41	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-26I	0	-3	-58	No	17	47.06	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-26S	0	13	58	No	17	64.71	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-27I	0	11	58	No	17	70.59	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-27S	-0.03338	-38	-58	No	17	17.65	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-28I	-0.0009203	-14	-58	No	17	29.41	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-28S	-0.02391	-30	-58	No	17	11.76	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-29I	-0.005777	-36	-58	No	17	41.18	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-14S (bg)	0	1	35	No	12	91.67	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-1D (bg)	0	-4	-35	No	12	58.33	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-1I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-2I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-30I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-3D (bg)	0	14	35	No	12	58.33	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-3I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-26I	0	-11	-35	No	12	91.67	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-26S	0	-13	-35	No	12	83.33	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-27I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-27S	0	-14	-35	No	12	75	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-28I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-28S	0	-22	-35	No	12	75	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-29I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-14S (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.001625	-47	-53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-1I (bg)	-0.00007918	-41	-53	No	16	18.75	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-2I (bg)	-0.0005677	-53	-53	No	16	12.5	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-30I (bg)	-0.007672	-54	-53	Yes	16	56.25	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-3D (bg)	0.0005207	37	53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-3I (bg)	0.0005239	27	53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-26I	0.0001336	40	53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-26S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-27I	-0.00005456	-4	-53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-27S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-28I	-0.00009645	-34	-53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-28S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-29I	-0.0005137	-61	-53	Yes	16	0	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-14S (bg)	0	-6	-39	No	13	92.31	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-1D (bg)	0	-15	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-1I (bg)	0	-6	-39	No	13	92.31	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-2I (bg)	0	0	39	No	13	100	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-30I (bg)	0	-13	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-3D (bg)	0	-13	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-3I (bg)	0	-13	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-26I	0	-14	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-26S	0	-13	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-27I	0	-15	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-27S	0	-15	-39	No	13	84.62	n/a	n/a	0.02	NP

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Mercury (mg/L)	YGWC-28I	0	-6	-39	No	13	92.31	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-28S	0	-6	-39	No	13	92.31	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-29I	0	-15	-39	No	13	84.62	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-14S (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-1D (bg)	-0.0008772	-70	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-1I (bg)	-0.001096	-76	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-2I (bg)	0.00004235	4	53	No	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-30I (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-3D (bg)	0.0008155	70	53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-3I (bg)	-0.0001073	-6	-53	No	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-26I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-26S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-27I	0	-3	-53	No	16	62.5	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-27S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-28I	0	-5	-53	No	16	56.25	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-28S	0	17	53	No	16	87.5	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-29I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-14S (bg)	0	35	44	No	14	64.29	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-26I	0	-5	-44	No	14	14.29	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-26S	0	35	44	No	14	71.43	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-27I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-27S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-28I	0	3	44	No	14	92.86	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-28S	0	9	44	No	14	92.86	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-29I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-14S (bg)	0	-9	-35	No	12	91.67	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-1D (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-1I (bg)	0	-9	-35	No	12	91.67	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-2I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-30I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-3D (bg)	0	9	35	No	12	91.67	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-3I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-26I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-26S	0	-21	-35	No	12	83.33	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-27I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-27S	0	-5	-35	No	12	50	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-28I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-28S	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-29I	0	0	35	No	12	100	n/a	n/a	0.02	NP

Appendix III Interwell Prediction Limits Summary Table - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:55 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bq	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	YGWC-26I	0.04	n/a	3/20/2020	0.94	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-26S	0.04	n/a	3/19/2020	0.73	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27I	0.04	n/a	3/20/2020	2.1	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27S	0.04	n/a	3/20/2020	1.4	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28I	0.04	n/a	3/19/2020	2.4	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28S	0.04	n/a	3/19/2020	2.5	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-29I	0.04	n/a	3/20/2020	0.8	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-27S	31.5	n/a	3/20/2020	42.1	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	31.5	n/a	3/19/2020	37.3	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	5.2	n/a	3/20/2020	17.7	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	5.2	n/a	3/19/2020	15.4	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	5.2	n/a	3/20/2020	13	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	5.2	n/a	3/20/2020	17.7	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	5.2	n/a	3/19/2020	16	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	5.2	n/a	3/19/2020	18.1	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	5.2	n/a	3/20/2020	11.3	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	12.46	n/a	3/20/2020	84.7	Yes	98	6.415	3.211	2.041	None	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-26S	12.46	n/a	3/19/2020	99.4	Yes	98	6.415	3.211	2.041	None	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-27S	12.46	n/a	3/20/2020	21.1	Yes	98	6.415	3.211	2.041	None	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-29I	12.46	n/a	3/20/2020	33	Yes	98	6.415	3.211	2.041	None	None	0.001075	Param Inter 1 of 2

Appendix III Interwell Prediction Limits Summary Table - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:55 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bq	N	Bq Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	YGWC-26I	0.04	n/a	3/20/2020	0.94	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-26S	0.04	n/a	3/19/2020	0.73	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27I	0.04	n/a	3/20/2020	2.1	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27S	0.04	n/a	3/20/2020	1.4	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28I	0.04	n/a	3/19/2020	2.4	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28S	0.04	n/a	3/19/2020	2.5	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-29I	0.04	n/a	3/20/2020	0.8	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-26I	31.5	n/a	3/20/2020	17.1	No	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	31.5	n/a	3/19/2020	13	No	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	31.5	n/a	3/20/2020	30.3	No	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	31.5	n/a	3/20/2020	42.1	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	31.5	n/a	3/19/2020	37.3	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	31.5	n/a	3/19/2020	30.4	No	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	31.5	n/a	3/20/2020	12.7	No	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	5.2	n/a	3/20/2020	17.7	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	5.2	n/a	3/19/2020	15.4	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	5.2	n/a	3/20/2020	13	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	5.2	n/a	3/20/2020	17.7	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	5.2	n/a	3/19/2020	16	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	5.2	n/a	3/19/2020	18.1	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	5.2	n/a	3/20/2020	11.3	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	3/20/2020	0.06	No	119	n/a	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	3/19/2020	0.3ND	No	119	n/a	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	3/20/2020	0.3ND	No	119	n/a	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	3/20/2020	0.097	No	119	n/a	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	3/19/2020	0.07	No	119	n/a	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	3/19/2020	0.16	No	119	n/a	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	3/20/2020	0.057	No	119	n/a	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	7.91	5.02	3/20/2020	5.94	No	119	n/a	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	7.91	5.02	3/19/2020	5.46	No	119	n/a	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	7.91	5.02	3/20/2020	6.32	No	119	n/a	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	7.91	5.02	3/20/2020	6.18	No	119	n/a	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	7.91	5.02	3/19/2020	7.01	No	119	n/a	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	7.91	5.02	3/19/2020	6.98	No	119	n/a	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	7.91	5.02	3/20/2020	6.17	No	119	n/a	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	12.46	n/a	3/20/2020	84.7	Yes	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-26S	12.46	n/a	3/19/2020	99.4	Yes	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-27I	12.46	n/a	3/20/2020	5.2	No	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-27S	12.46	n/a	3/20/2020	21.1	Yes	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-28I	12.46	n/a	3/19/2020	9.1	No	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-28S	12.46	n/a	3/19/2020	1.7	No	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-29I	12.46	n/a	3/20/2020	33	Yes	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	223	n/a	3/20/2020	211	No	98	n/a	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	223	n/a	3/19/2020	194	No	98	n/a	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	223	n/a	3/20/2020	195	No	98	n/a	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	223	n/a	3/20/2020	182	No	98	n/a	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	223	n/a	3/19/2020	212	No	98	n/a	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	223	n/a	3/19/2020	202	No	98	n/a	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	223	n/a	3/20/2020	137	No	98	n/a	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2

Appendix III Trend Tests - PL Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:59 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	YGWA-14S (bg)	-0.05271	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1D (bg)	1.11	48	44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-26S	-1.022	-55	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-27S	-0.9221	-63	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-29I	-0.605	-47	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.261	51	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.7245	46	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-27S	-2.238	-55	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-29I	-0.6353	-49	-44	Yes	14	0	n/a	n/a	0.02	NP

Appendix III Trend Tests - PL Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.002489	-37	-44	No	14	14.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-1D (bg)	-0.001025	-26	-44	No	14	14.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-1I (bg)	0	-33	-44	No	14	64.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-2I (bg)	0	-26	-44	No	14	71.43	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-44	No	14	85.71	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-3D (bg)	0	-13	-44	No	14	57.14	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-3I (bg)	0	-13	-44	No	14	92.86	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-26I	-0.01726	-15	-44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-26S	0.005659	17	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-27I	0.02751	6	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-27S	0.02086	19	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-28I	0.1086	27	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-28S	0.08094	21	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-29I	-0.01791	-35	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.05271	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1D (bg)	1.11	48	44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1025	-37	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-2I (bg)	0.9579	31	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-30I (bg)	-0.0134	-7	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-3D (bg)	1.219	40	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-3I (bg)	0.4381	18	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWC-27S	0.4551	10	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWC-28I	-0.3982	-15	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-14S (bg)	0	6	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-11	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-1I (bg)	0	-5	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03701	-16	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-30I (bg)	0	4	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.07067	-33	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.04953	-37	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-26I	0	-9	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-26S	-1.022	-55	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-27I	0	13	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-27S	-0.9221	-63	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-28I	-0.215	-39	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-28S	0.02755	11	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-29I	-0.605	-47	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.3425	40	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.261	51	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.1237	-7	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-2I (bg)	0	0	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.05321	-7	-44	No	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.7245	46	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6413	31	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-26I	0.7464	13	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-26S	-0.5868	-29	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-27S	-2.238	-55	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-29I	-0.6353	-49	-44	Yes	14	0	n/a	n/a	0.02	NP

Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0030	n/a	n/a	n/a	n/a	84	n/a	n/a	78.57	n/a	n/a	0.01345	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	112	n/a	n/a	68.75	n/a	n/a	0.003199	NP Inter(NDs)
Barium (mg/L)	n/a	0.012	n/a	n/a	n/a	n/a	112	n/a	n/a	6.25	n/a	n/a	0.003199	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0030	n/a	n/a	n/a	n/a	98	n/a	n/a	86.73	n/a	n/a	0.00656	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	98	n/a	n/a	95.92	n/a	n/a	0.00656	NP Inter(NDs)
Chromium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	98	n/a	n/a	81.63	n/a	n/a	0.00656	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	112	n/a	n/a	73.21	n/a	n/a	0.003199	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.1	n/a	n/a	n/a	n/a	112	0.9571	0.3376	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	119	n/a	n/a	52.94	n/a	n/a	0.002234	NP Inter(NDs)
Lead (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	84	n/a	n/a	86.9	n/a	n/a	0.01345	NP Inter(NDs)
Lithium (mg/L)	n/a	0.030	n/a	n/a	n/a	n/a	112	n/a	n/a	26.79	n/a	n/a	0.003199	NP Inter(normality)
Mercury (mg/L)	n/a	0.00050	n/a	n/a	n/a	n/a	91	n/a	n/a	89.01	n/a	n/a	0.009394	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	112	n/a	n/a	28.57	n/a	n/a	0.003199	NP Inter(normality)
Selenium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	98	n/a	n/a	94.9	n/a	n/a	0.00656	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0010	n/a	n/a	n/a	n/a	84	n/a	n/a	96.43	n/a	n/a	0.01345	NP Inter(NDs)

YATES ASH POND 2 GWPS - FEDERAL				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.012	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		4.1	5
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates ACL is higher than MCL or CCR Rule-specified level

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residual

*GWPS = Groundwater Protection Standard

YATES ASH POND 2 GWPS - STATE				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.012	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		4.1	5
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.005
Lithium, Total (mg/L)	n/a	0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.014	0.014
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates ACL is higher than MCL or CCR Rule-specified level

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residual

*GWPS = Groundwater Protection Standard

Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:10 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	0.00059	0.006	No	12	0.002593	0.0009518	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	12	0.002775	0.0005259	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	12	0.002778	0.0007708	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	12	0.002775	0.0007794	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00058	0.01	No	16	0.00284	0.002236	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-28S	0.005	0.00065	0.01	No	16	0.002844	0.002228	50	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-26I	0.06702	0.06349	2	No	16	0.06526	0.002713	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02866	0.02645	2	No	16	0.02756	0.0017	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	16	0.06765	0.006649	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.108	0.096	2	No	16	0.1018	0.007225	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28I	0.0915	0.0862	2	No	16	0.08876	0.003645	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28S	0.2177	0.2027	2	No	16	0.2102	0.01155	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0732	0.06226	2	No	16	0.06773	0.008408	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-26S	0.003	0.00011	0.004	No	14	0.000565	0.001032	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.0001	0.004	No	14	0.0007907	0.001198	21.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28I	0.00055	0.00009	0.005	No	14	0.0003343	0.0004118	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-29I	0.00026	0.0001	0.005	No	14	0.0003371	0.0003901	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No	14	0.006294	0.004571	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002761	0.001323	0.1	No	14	0.003943	0.003491	21.43	Kaplan-Meier	In(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0005	0.1	No	14	0.009679	0.002959	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No	14	0.007958	0.004058	78.57	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0005	0.1	No	14	0.008642	0.003452	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No	14	0.009321	0.002539	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002891	0.001983	0.035	No	16	0.0025	0.0008446	6.25	None	In(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0495	0.0017	0.035	No	16	0.02107	0.02867	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	16	0.002544	0.0006723	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	16	0.004714	0.001145	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00085	0.035	No	16	0.001263	0.001007	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0006	0.035	No	16	0.003882	0.002	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.231	0.4873	5	No	15	0.8594	0.5491	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9282	0.5491	5	No	16	0.7387	0.2913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.272	2.921	5	No	16	3.596	1.038	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.087	0.6697	5	No	16	0.8785	0.3209	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.245	5	No	16	0.6106	0.348	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9165	0.4416	5	No	16	0.6791	0.365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.199	0.6989	5	No	16	0.9488	0.384	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.3	0.071	4	No	17	0.1822	0.1152	47.06	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.35	0.24	4	No	17	0.2685	0.1021	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.086	4	No	17	0.2394	0.09945	70.59	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2457	0.1134	4	No	17	0.2113	0.1111	17.65	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.3	0.08	4	No	17	0.1956	0.1074	29.41	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.3044	0.1886	4	No	17	0.2465	0.09239	11.76	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.3	0.059	4	No	17	0.1693	0.1149	41.18	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.005	0.000059	0.015	No	12	0.004588	0.001426	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.005	0.0001	0.015	No	12	0.004182	0.001911	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.005	0.000085	0.015	No	12	0.003779	0.002209	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.005	0.00007	0.015	No	12	0.003767	0.002231	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007022	0.006453	0.04	No	16	0.006738	0.000438	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01085	0.008414	0.04	No	16	0.009631	0.001871	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28I	0.007106	0.006657	0.04	No	16	0.006881	0.0003449	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-29I	0.006631	0.005481	0.04	No	16	0.006056	0.0008839	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.1	No	16	0.006756	0.004328	62.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.1	No	16	0.006206	0.004443	56.25	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28S	0.01	0.0007	0.1	No	16	0.008831	0.003194	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0023	0.0017	0.05	No	14	0.003071	0.002941	14.29	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0012	0.05	No	14	0.00745	0.004192	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No	14	0.009371	0.002352	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No	14	0.009357	0.002405	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	12	0.0008427	0.0003675	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	12	0.0005525	0.0004674	50	None	No	0.01	NP (normality)

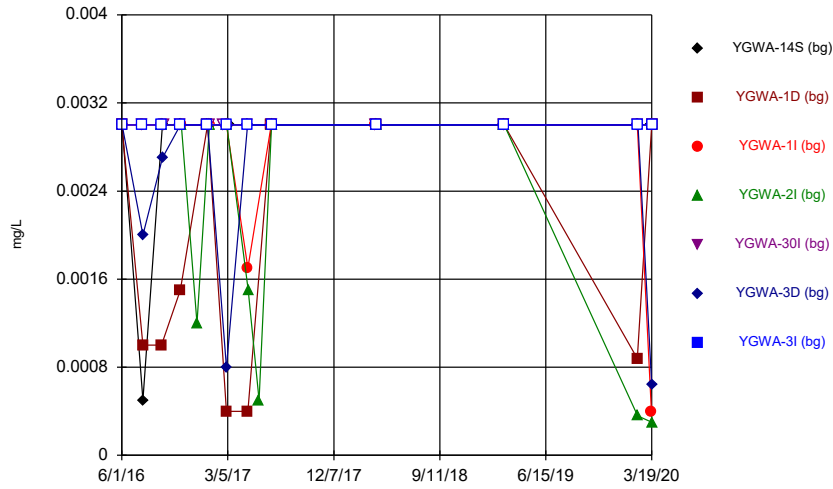
State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:07 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	0.00059	0.006	No	12	0.002593	0.0009518	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	12	0.002775	0.0005259	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	12	0.002778	0.0007708	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	12	0.002775	0.0007794	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00058	0.01	No	16	0.00284	0.002236	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-28S	0.005	0.00065	0.01	No	16	0.002844	0.002228	50	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-26I	0.06702	0.06349	2	No	16	0.06526	0.002713	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02866	0.02645	2	No	16	0.02756	0.0017	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	16	0.06765	0.006649	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.108	0.096	2	No	16	0.1018	0.007225	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28I	0.0915	0.0862	2	No	16	0.08876	0.003645	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28S	0.2177	0.2027	2	No	16	0.2102	0.01155	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0732	0.06226	2	No	16	0.06773	0.008408	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-26S	0.003	0.00011	0.004	No	14	0.000565	0.001032	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.0001	0.004	No	14	0.0007907	0.001198	21.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28I	0.00055	0.00009	0.005	No	14	0.0003343	0.0004118	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-29I	0.00026	0.0001	0.005	No	14	0.0003371	0.0003901	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No	14	0.006294	0.004571	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002761	0.001323	0.1	No	14	0.003943	0.003491	21.43	Kaplan-Meier	In(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0005	0.1	No	14	0.009679	0.002959	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No	14	0.007958	0.004058	78.57	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0005	0.1	No	14	0.008642	0.003452	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No	14	0.009321	0.002539	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002891	0.001983	0.035	No	16	0.0025	0.0008446	6.25	None	In(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0495	0.0017	0.035	No	16	0.02107	0.02867	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	16	0.002544	0.0006723	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	16	0.004714	0.001145	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00085	0.035	No	16	0.001263	0.001007	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0006	0.035	No	16	0.003882	0.002	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.231	0.4873	5	No	15	0.8594	0.5491	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9282	0.5491	5	No	16	0.7387	0.2913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.272	2.921	5	No	16	3.596	1.038	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.087	0.6697	5	No	16	0.8785	0.3209	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.245	5	No	16	0.6106	0.348	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9165	0.4416	5	No	16	0.6791	0.365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.199	0.6989	5	No	16	0.9488	0.384	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.3	0.071	4	No	17	0.1822	0.1152	47.06	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.35	0.24	4	No	17	0.2685	0.1021	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.086	4	No	17	0.2394	0.09945	70.59	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2457	0.1134	4	No	17	0.2113	0.1111	17.65	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.3	0.08	4	No	17	0.1956	0.1074	29.41	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.3044	0.1886	4	No	17	0.2465	0.09239	11.76	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.3	0.059	4	No	17	0.1693	0.1149	41.18	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.005	0.000059	0.005	No	12	0.004588	0.001426	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.005	0.0001	0.005	No	12	0.004182	0.001911	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.005	0.000085	0.005	No	12	0.003779	0.002209	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.005	0.00007	0.005	No	12	0.003767	0.002231	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007022	0.006453	0.03	No	16	0.006738	0.000438	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01085	0.008414	0.03	No	16	0.009631	0.001871	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28I	0.007106	0.006657	0.03	No	16	0.006881	0.0003449	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-29I	0.006631	0.005481	0.03	No	16	0.006056	0.0008839	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.014	No	16	0.006756	0.004328	62.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.014	No	16	0.006206	0.004443	56.25	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28S	0.01	0.0007	0.014	No	16	0.008831	0.003194	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0023	0.0017	0.05	No	14	0.003071	0.002941	14.29	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0012	0.05	No	14	0.00745	0.004192	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No	14	0.009371	0.002352	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No	14	0.009357	0.002405	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	12	0.0008427	0.0003675	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	12	0.0005525	0.0004674	50	None	No	0.01	NP (normality)

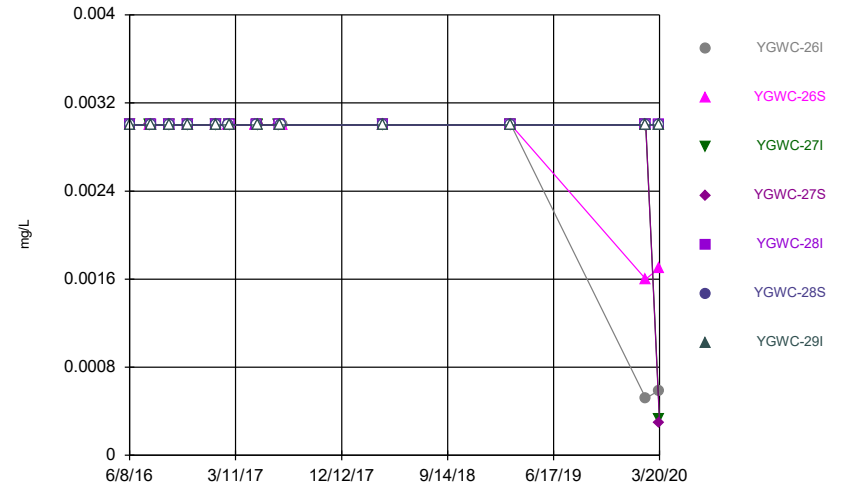
FIGURE A.

Time Series



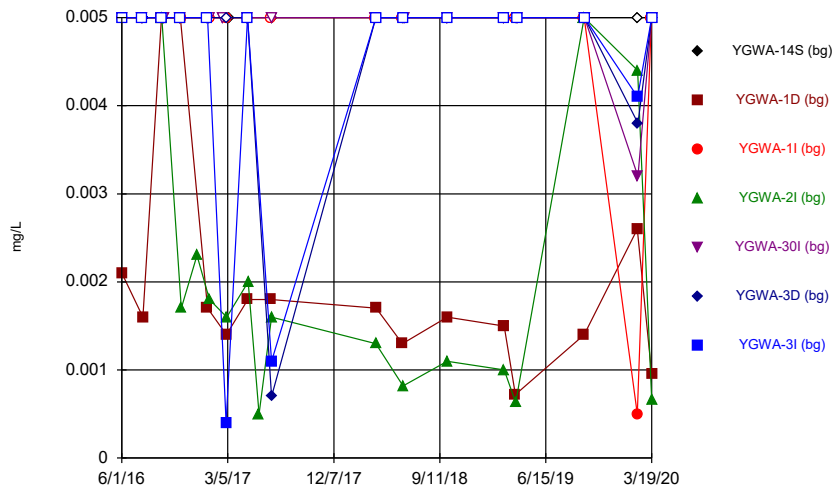
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



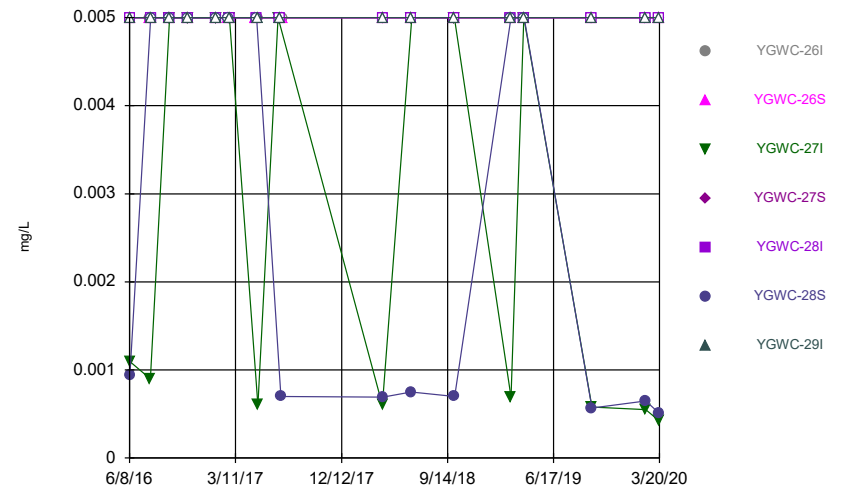
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



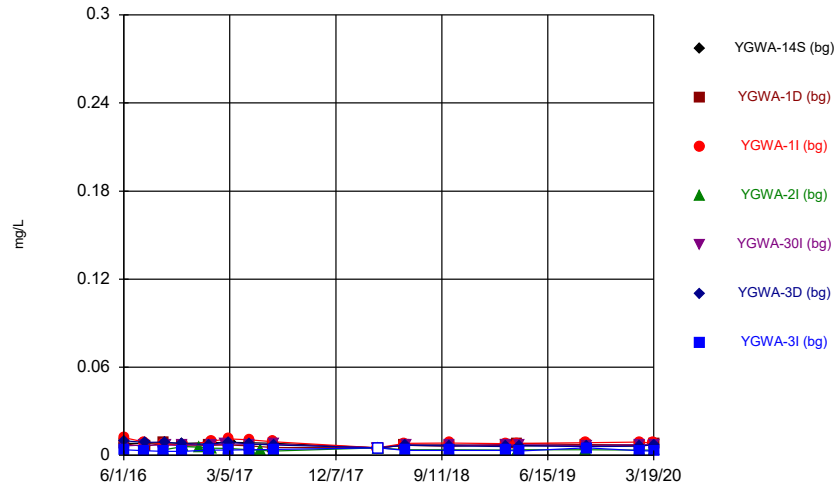
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



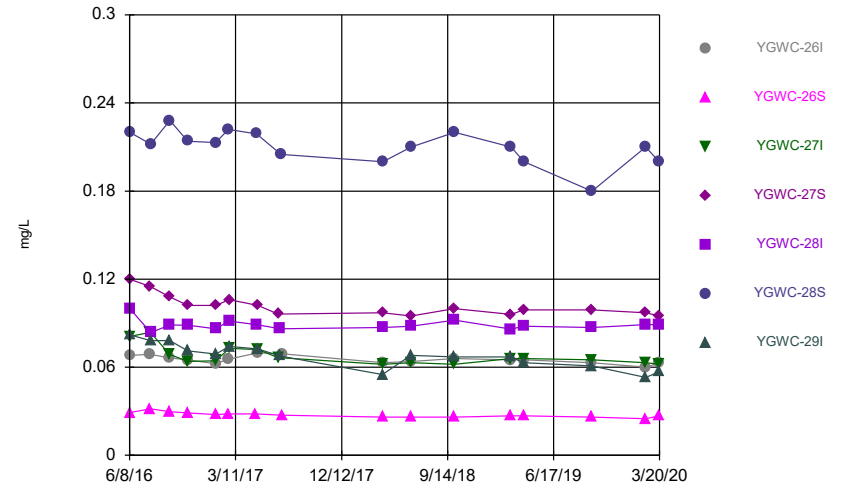
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Time Series



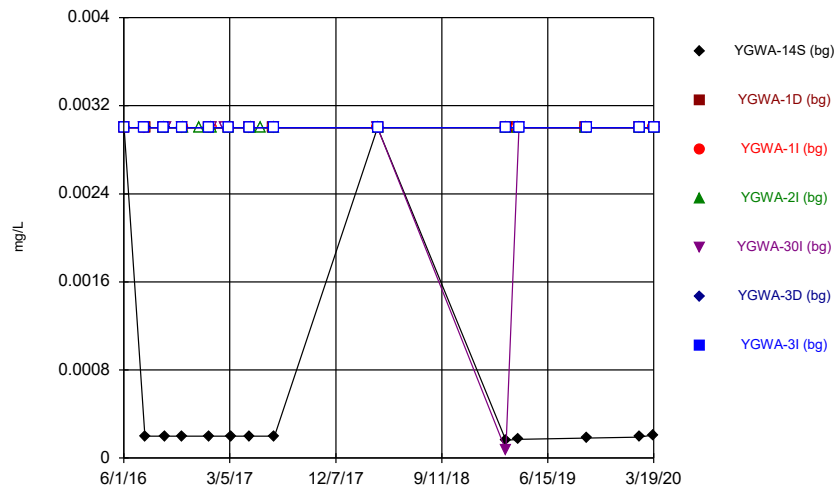
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Time Series



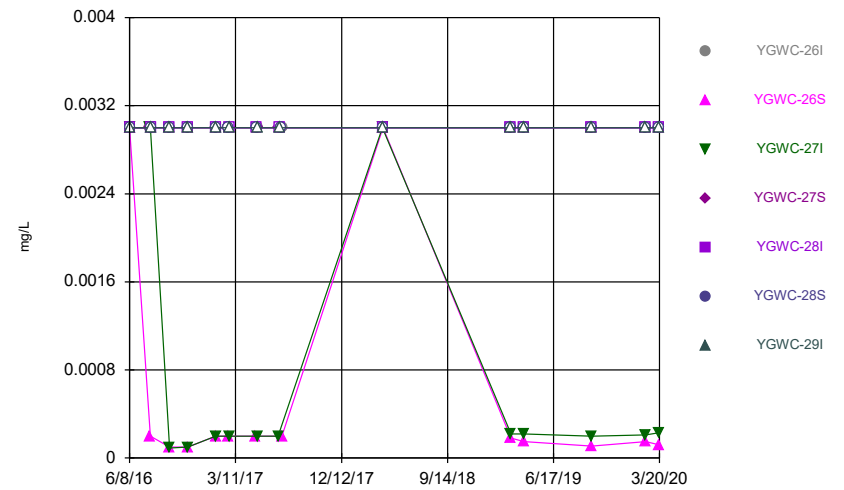
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Time Series



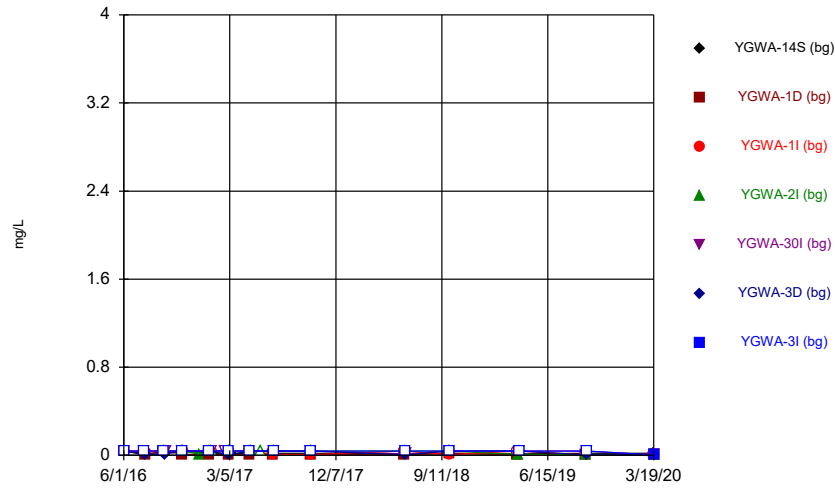
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



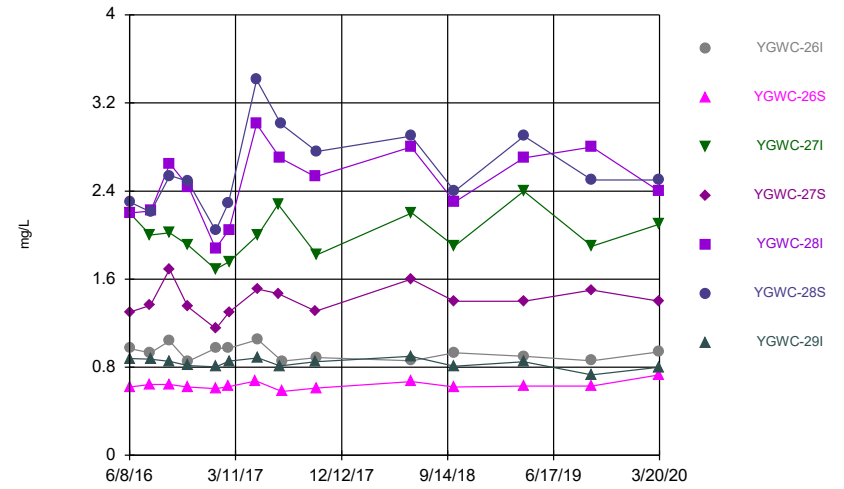
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



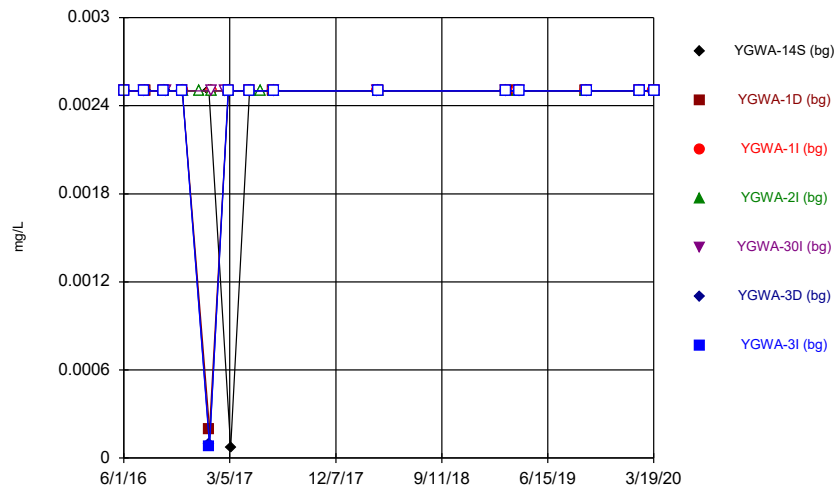
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



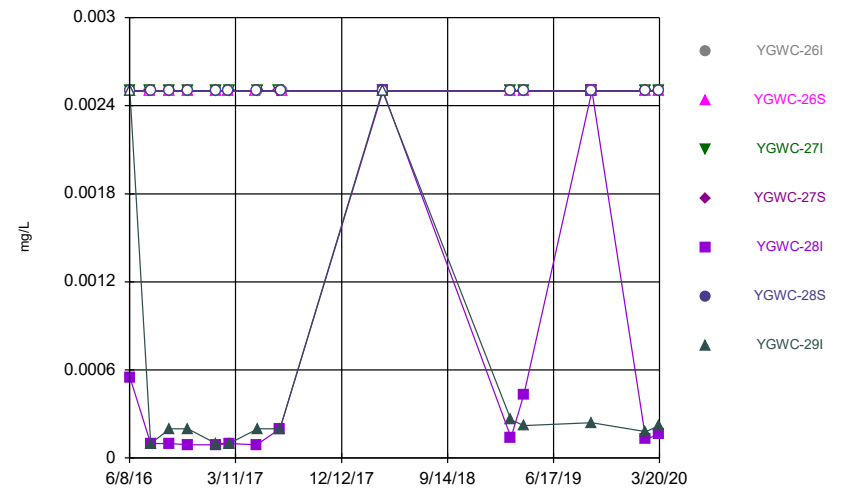
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Time Series



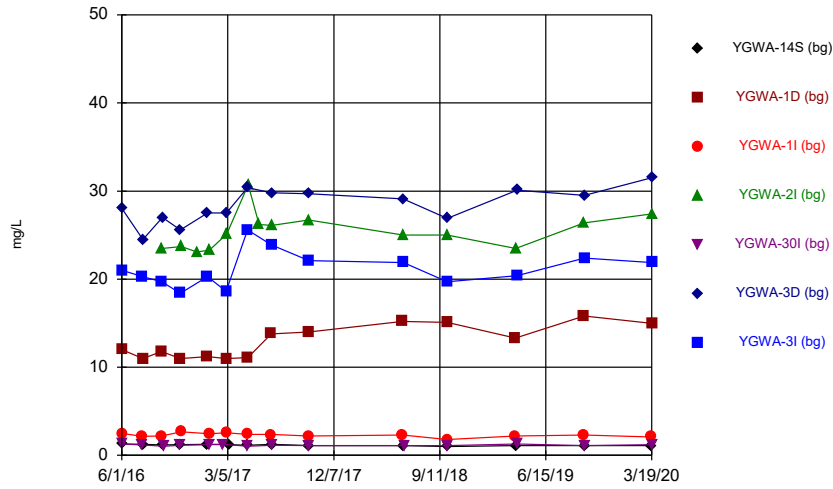
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



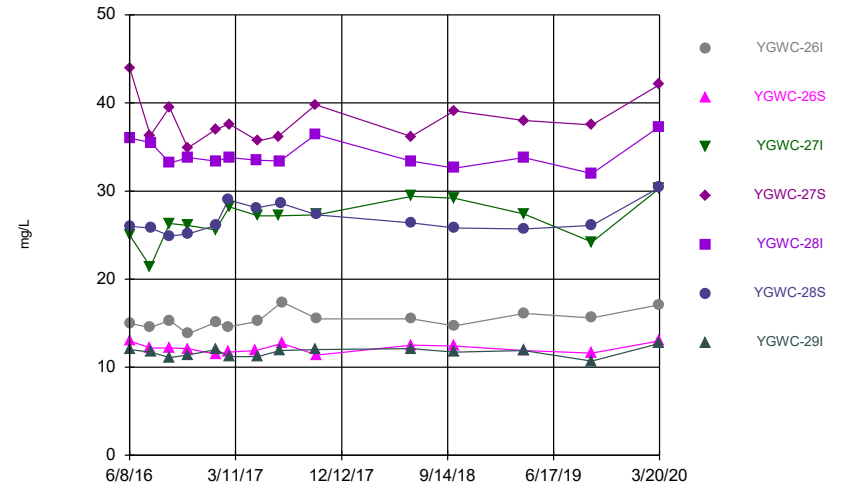
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Time Series



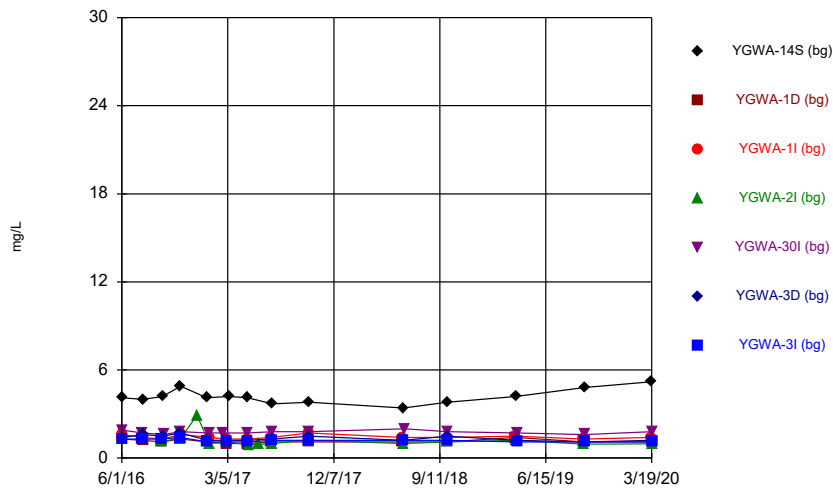
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



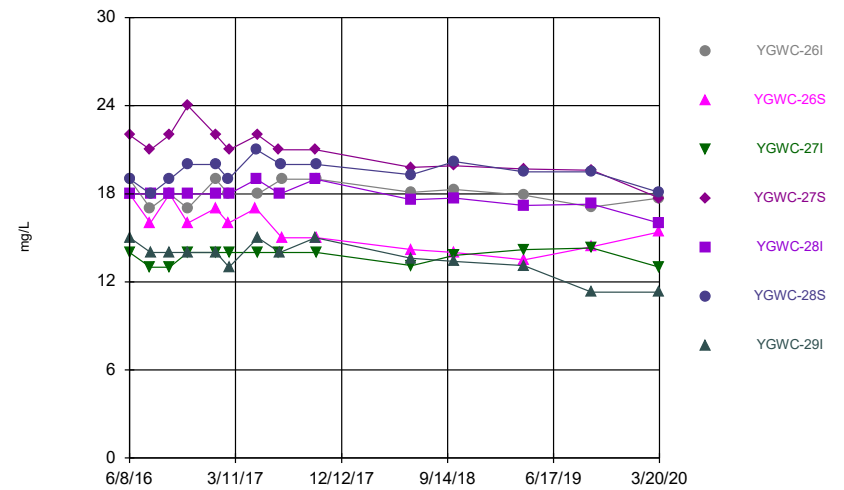
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



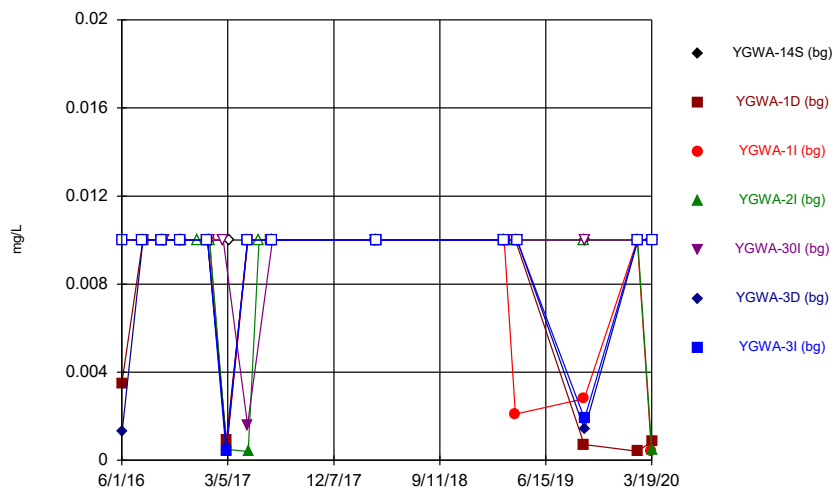
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



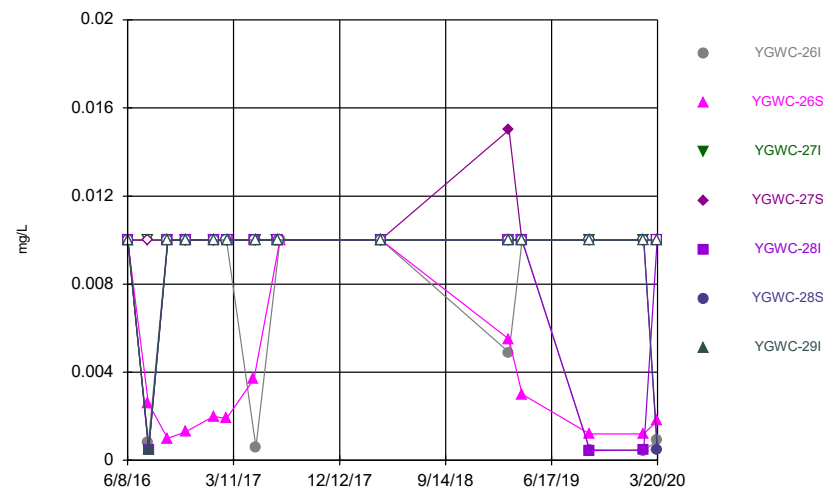
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



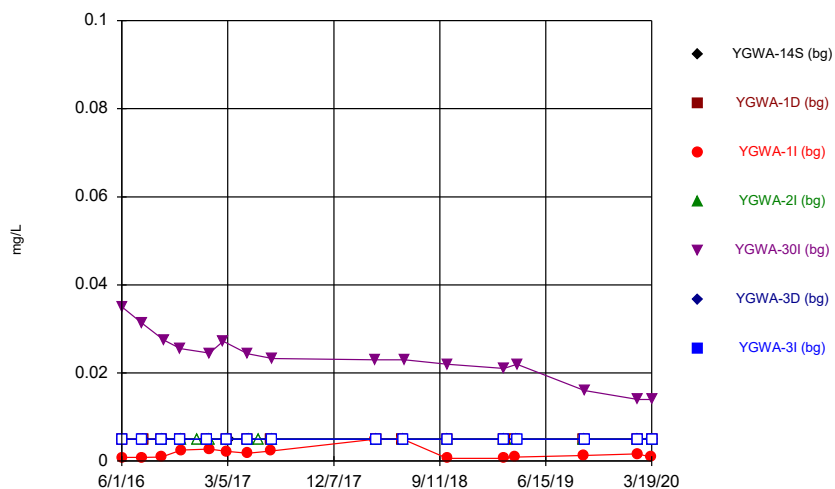
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



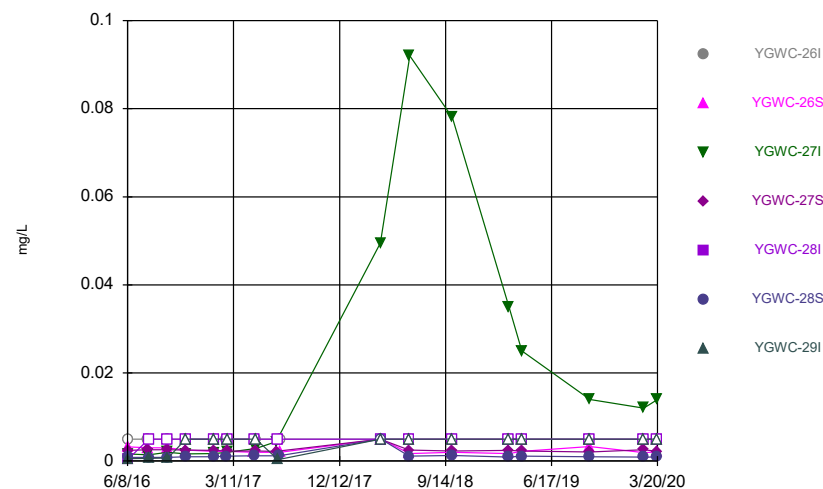
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Time Series



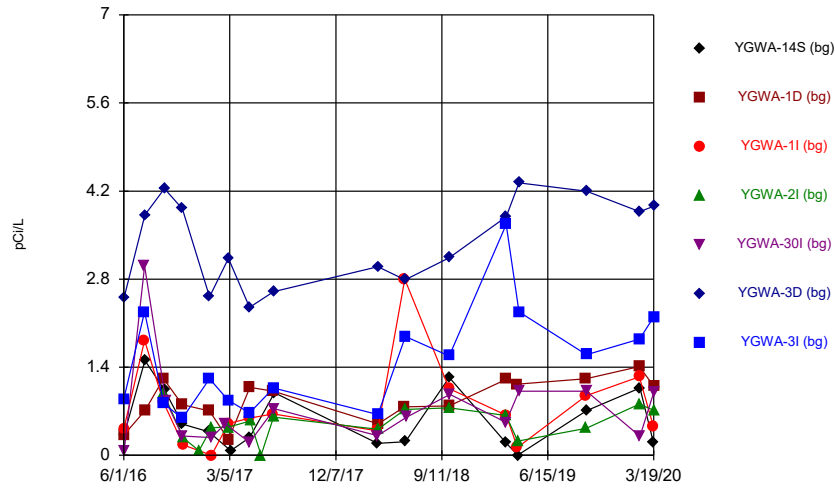
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



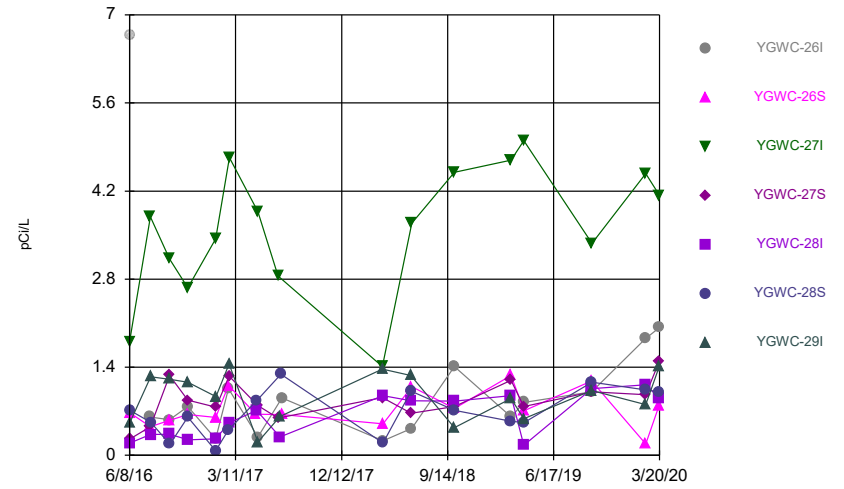
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



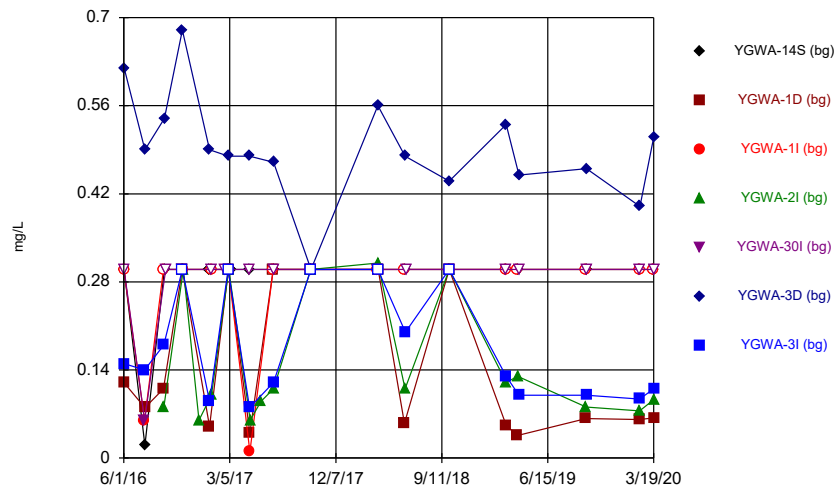
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



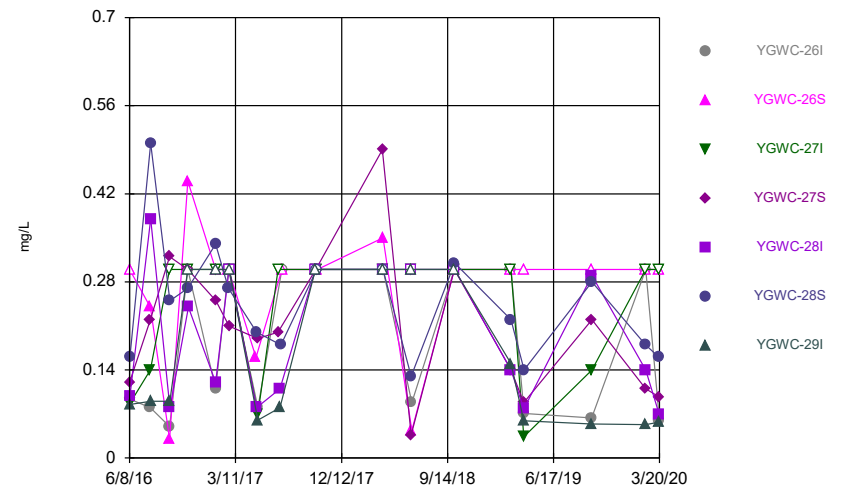
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



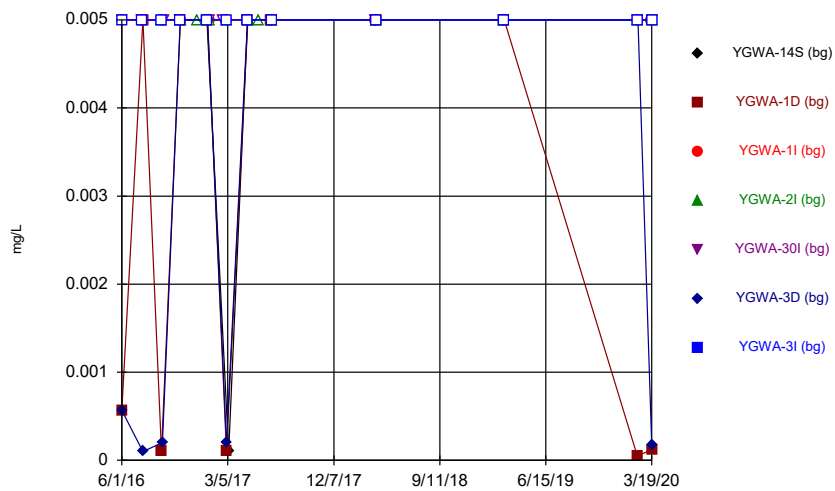
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



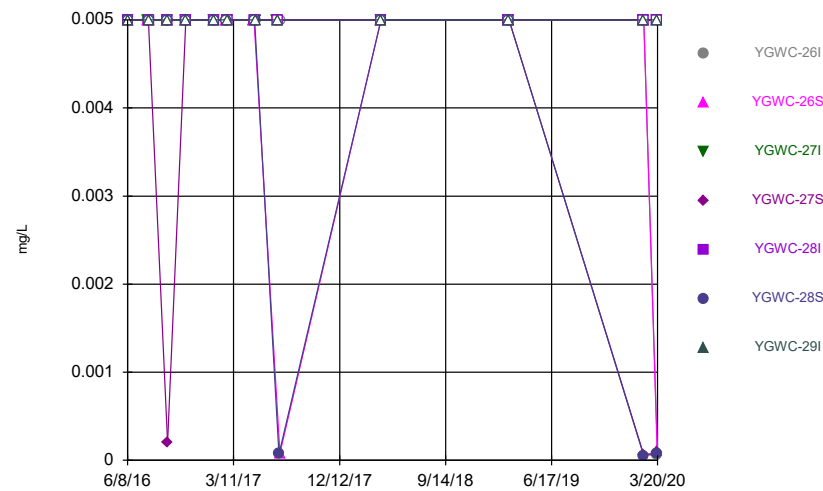
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Time Series



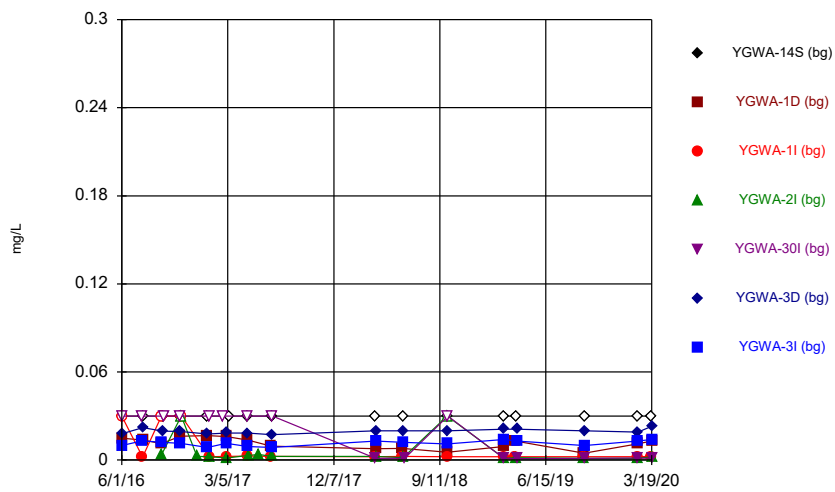
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



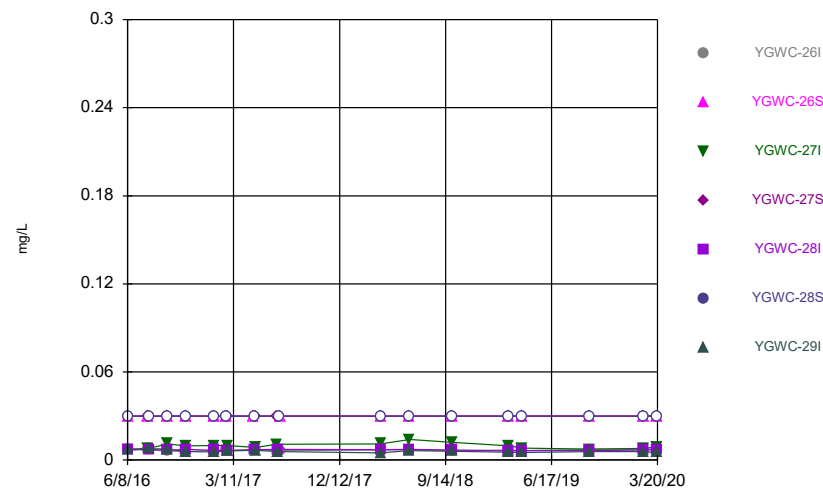
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



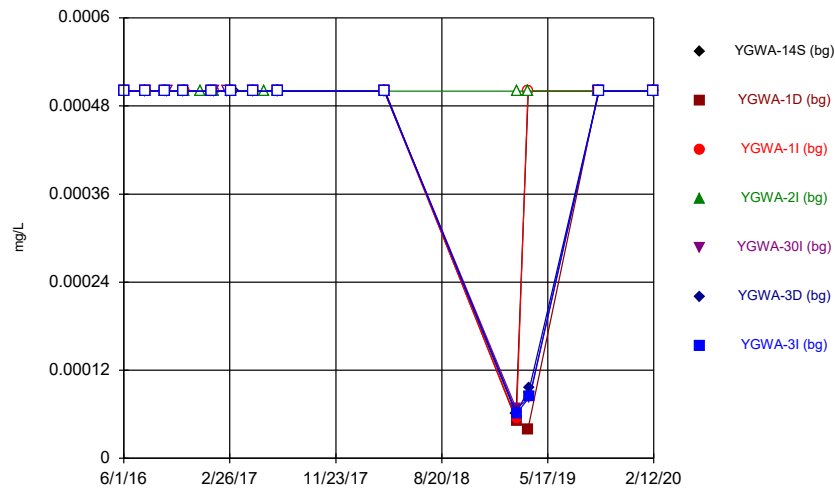
Constituent: Lithium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



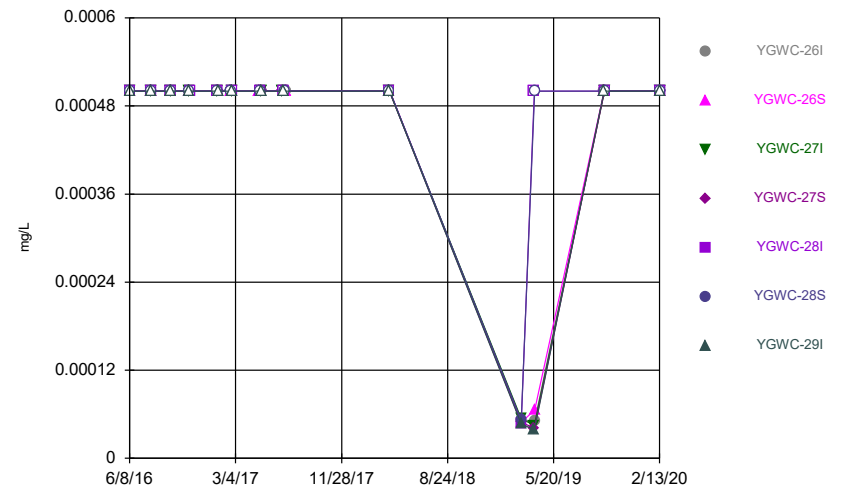
Constituent: Lithium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



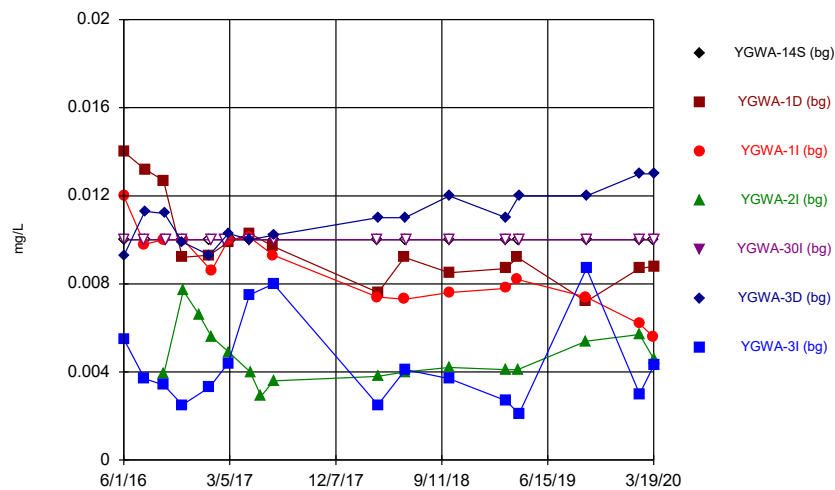
Constituent: Mercury Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



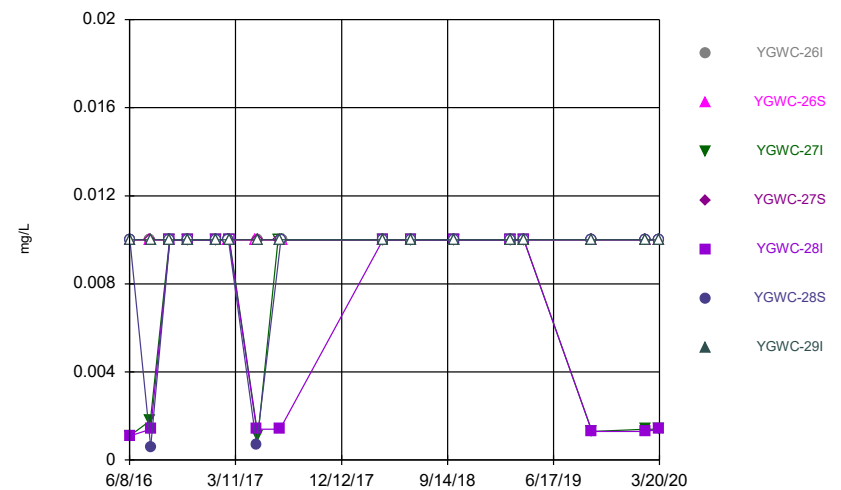
Constituent: Mercury Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



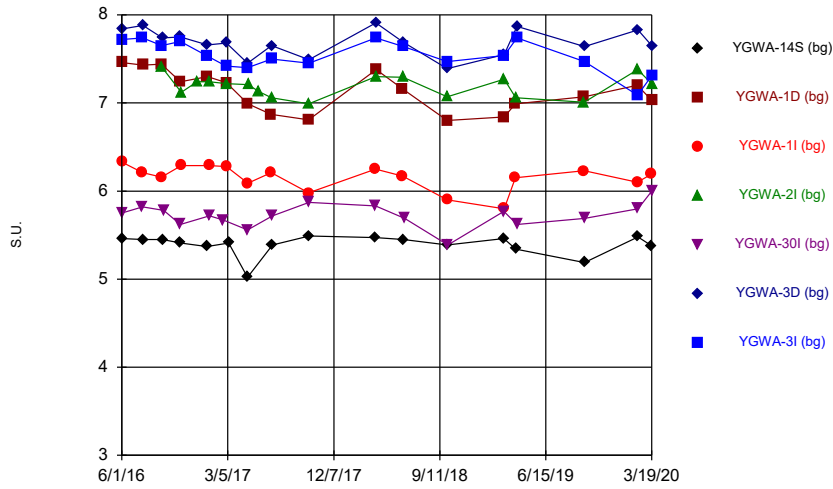
Constituent: Molybdenum Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



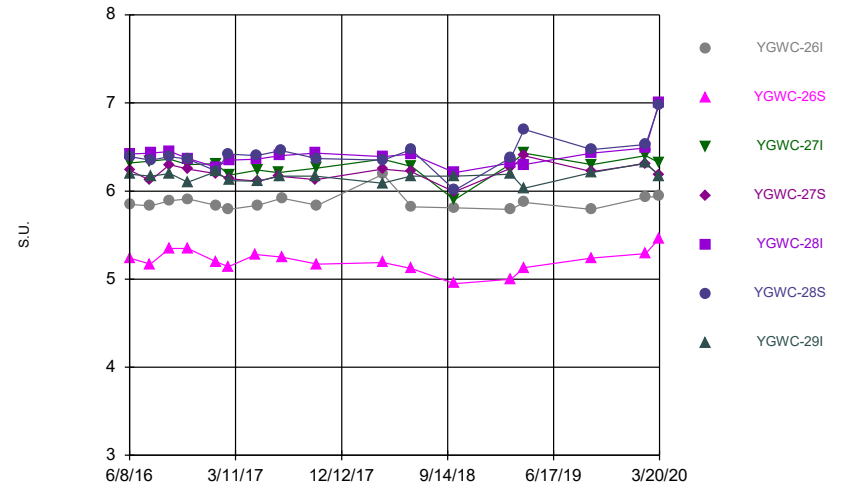
Constituent: Molybdenum Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



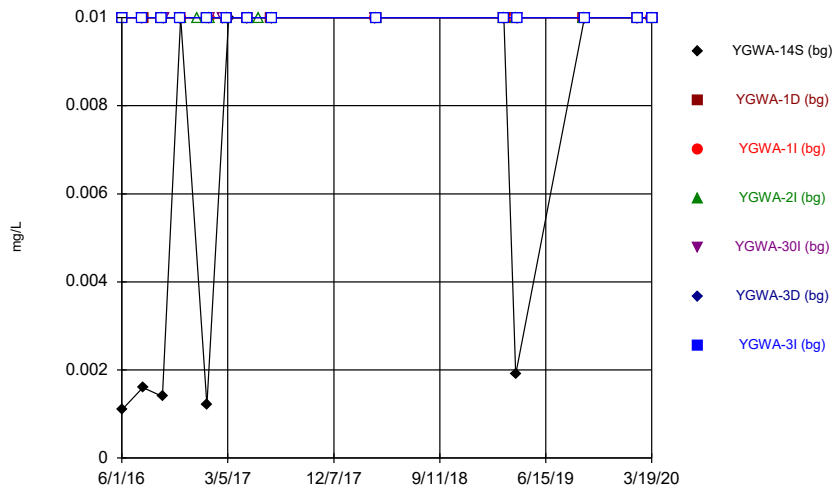
Constituent: pH Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



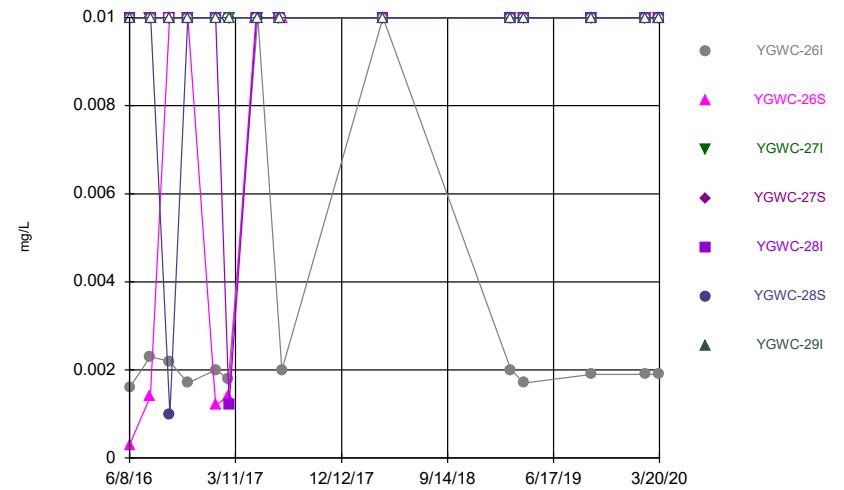
Constituent: pH Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



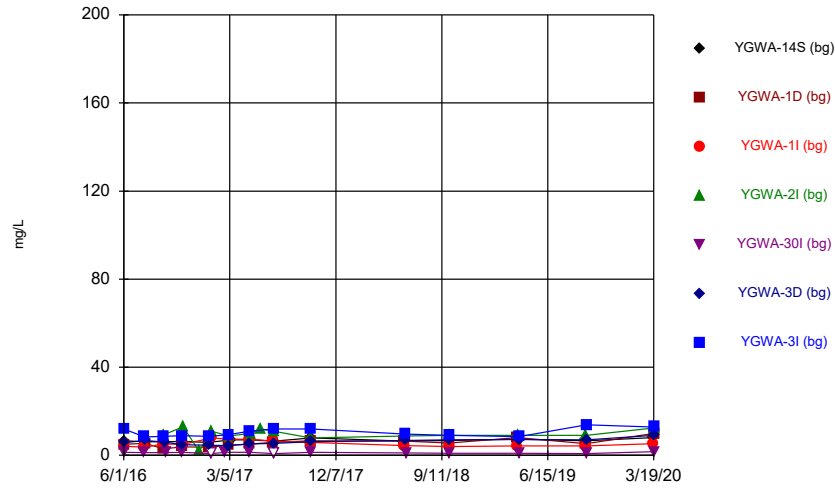
Constituent: Selenium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



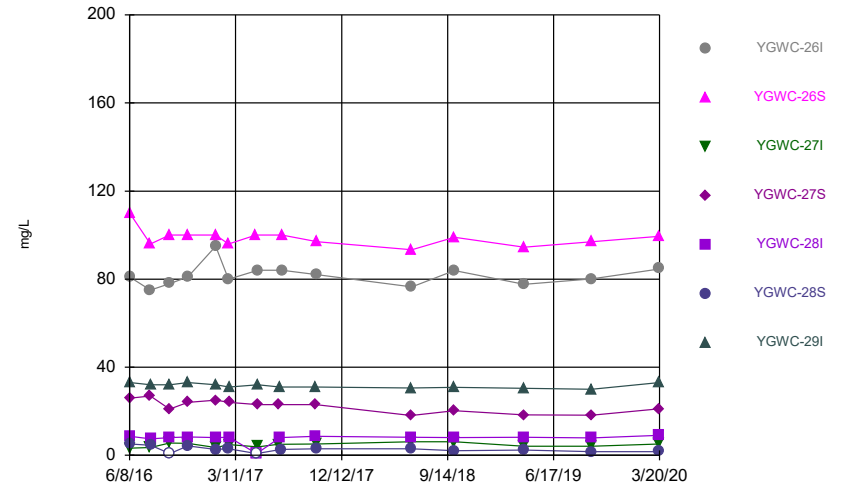
Constituent: Selenium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



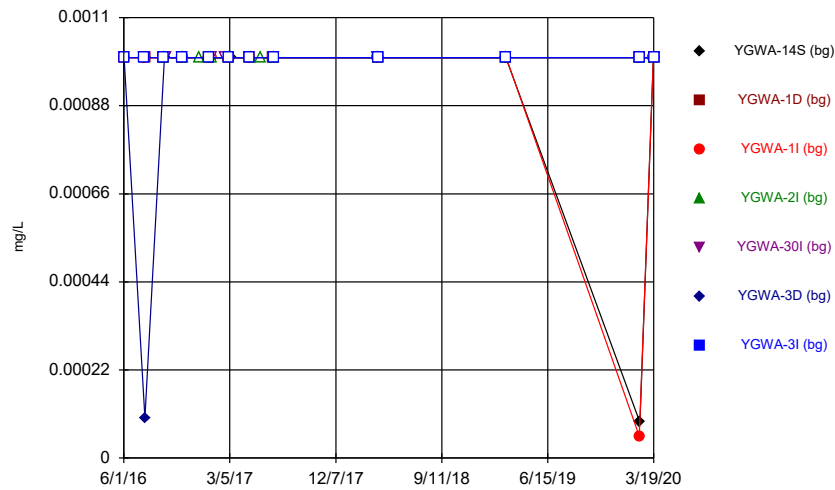
Constituent: Sulfate Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



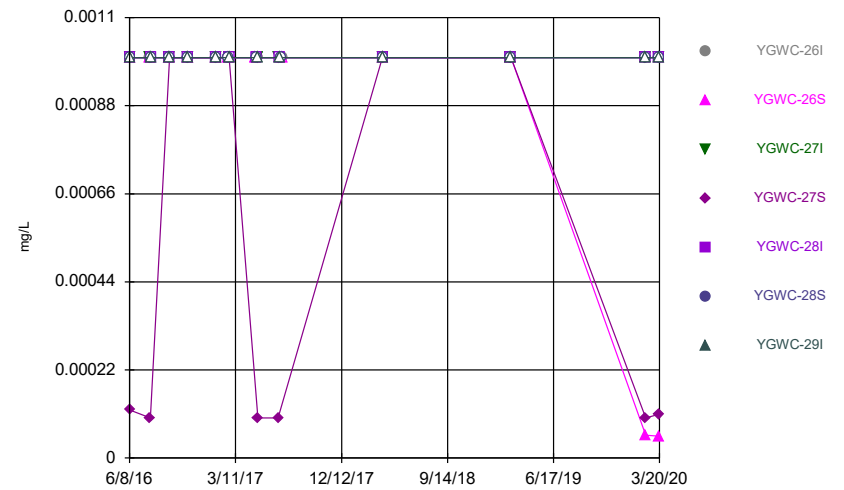
Constituent: Sulfate Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



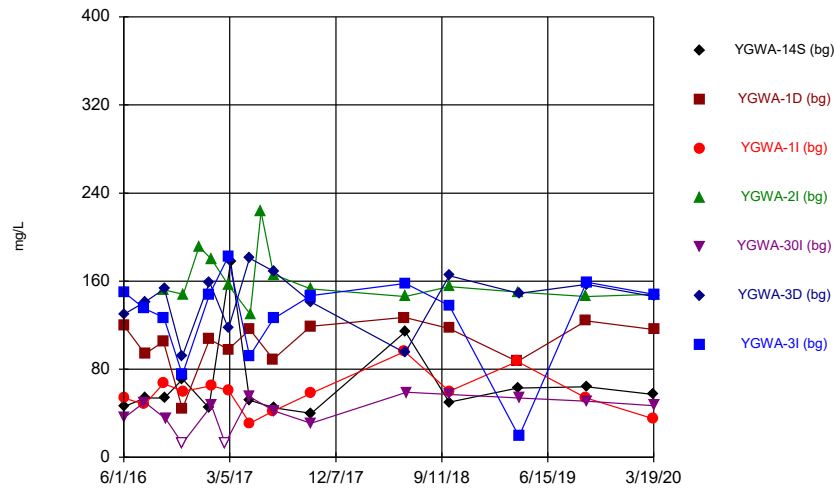
Constituent: Thallium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



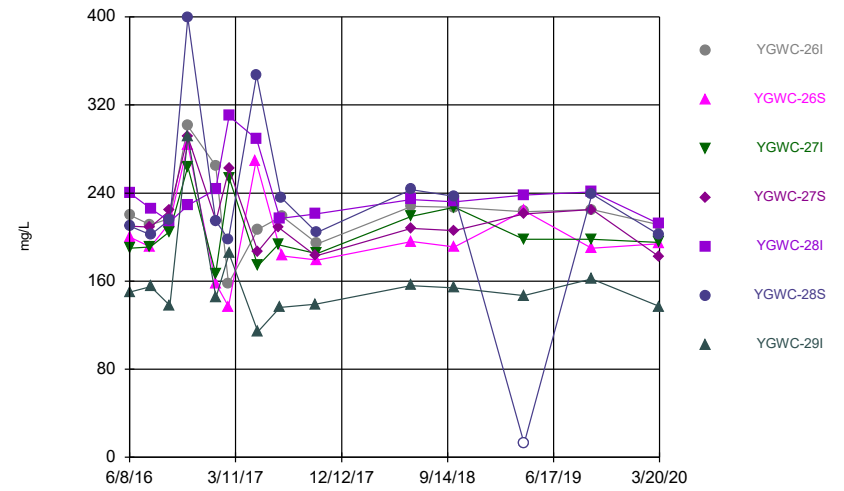
Constituent: Thallium Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/12/2020 3:51 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

Time Series

Constituent: Antimony (mg/L) Analysis Run 5/12/2020 3:51 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	<0.003
8/1/2016	<0.003	<0.003	<0.003	<0.003			
8/2/2016					<0.003	<0.003	<0.003
9/20/2016	<0.003	<0.003	<0.003	<0.003			
9/21/2016					<0.003	<0.003	<0.003
11/7/2016	<0.003	<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	<0.003	
1/19/2017				<0.003			<0.003
2/21/2017	<0.003	<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	<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
7/7/2017						<0.003	
7/10/2017	<0.003	<0.003					
3/29/2018			<0.003	<0.003			<0.003
3/30/2018	<0.003	<0.003			<0.003	<0.003	
2/27/2019	<0.003	<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	<0.003
3/19/2020		0.0017 (J)			<0.003	<0.003	
3/20/2020	0.00059 (J)		0.00033 (J)	0.0003 (J)			<0.003

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/12/2020 3:51 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

Time Series

Constituent: Arsenic (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
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

Time Series

Constituent: Barium (mg/L) Analysis Run 5/12/2020 3:51 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)

Time Series

Constituent: Barium (mg/L) Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
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

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/12/2020 3:51 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	0.0002 (J)	<0.003				<0.003	
9/13/2016		<0.003	<0.003				
9/14/2016				<0.003			<0.003
9/15/2016	0.0002 (J)					<0.003	
9/19/2016					<0.003		
11/1/2016		<0.003			<0.003	<0.003	<0.003
11/2/2016	0.0002 (J)						
11/4/2016			<0.003	<0.003			
12/15/2016				<0.003			
1/10/2017	0.0002 (J)						
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		<0.003	<0.003			<0.003	
3/3/2017				<0.003			
3/8/2017	0.0002 (J)						
4/26/2017	0.0002 (J)				<0.003	<0.003	<0.003
4/27/2017		<0.003	<0.003				
4/28/2017				<0.003			
5/26/2017				<0.003			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003		<0.003	<0.003
6/30/2017	0.0002 (J)				<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	0.00016 (J)				7.2E-05 (J)		
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
3/28/2019		<0.003	<0.003				
3/29/2019	0.00017 (J)			<0.003			
4/1/2019					<0.003	<0.003	<0.003
9/24/2019		<0.003	<0.003	<0.003			
9/25/2019	0.00018 (J)				<0.003	<0.003	<0.003
2/10/2020		<0.003	<0.003				
2/11/2020				<0.003			<0.003
2/12/2020	0.00019 (J)				<0.003	<0.003	
3/18/2020	0.00021 (J)		<0.003				
3/19/2020		<0.003		<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	<0.003
8/1/2016	<0.003	0.0002 (J)	<0.003	<0.003			
8/2/2016					<0.003	<0.003	<0.003
9/20/2016	<0.003	0.0001 (J)	9E-05 (J)	<0.003			
9/21/2016					<0.003	<0.003	<0.003
11/7/2016	<0.003	0.0001 (J)	0.0001 (J)	<0.003		<0.003	<0.003
11/8/2016					<0.003		
1/18/2017	<0.003	0.0002 (J)	0.0002 (J)		<0.003	<0.003	
1/19/2017				<0.003			<0.003
2/21/2017	<0.003	0.0002 (J)				<0.003	
2/22/2017				<0.003	<0.003		<0.003
2/23/2017			0.0002 (J)				
5/3/2017		0.0002 (J)					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		0.0002 (J)	<0.003			<0.003
6/30/2017			0.0002 (J)	<0.003			
7/5/2017					<0.003		<0.003
7/7/2017						<0.003	
7/10/2017	<0.003	0.0002 (J)					
3/29/2018			<0.003	<0.003			<0.003
3/30/2018	<0.003	<0.003			<0.003	<0.003	
2/27/2019	<0.003	0.00018 (J)	0.00022 (J)	<0.003	<0.003	<0.003	<0.003
4/1/2019			0.00022 (J)	<0.003	<0.003		<0.003
4/2/2019	<0.003	0.00015 (J)				<0.003	
9/25/2019	<0.003	0.00011 (J)					<0.003
9/26/2019			0.0002 (J)	<0.003	<0.003	<0.003	
2/13/2020	<0.003	0.00015 (J)	0.00021 (J)	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.00012 (J)			<0.003	<0.003	
3/20/2020	<0.003		0.00023 (J)	<0.003			<0.003

Time Series

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:51 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)

Time Series

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	0.88
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	0.872
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	0.853
11/7/2016	0.852	0.621	1.91	1.35		2.49	0.815
11/8/2016					2.44		
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			0.803
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		0.855
2/23/2017			1.76				
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.884
6/30/2017			2.28	1.47			
7/5/2017					2.7		0.811
7/7/2017						3.01	
7/10/2017	0.855	0.58					
10/5/2017					2.53		0.851
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					
6/11/2018							0.9
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
10/2/2018	0.93	0.62	1.9	1.4			0.81
10/3/2018					2.3	2.4	
4/1/2019			2.4	1.4	2.7		0.85
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					0.73
9/26/2019			1.9	1.5	2.8	2.5	
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			0.8

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/12/2020 3:51 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		<0.0025	<0.0025				<0.0025
6/2/2016	<0.0025				<0.0025	<0.0025	
7/25/2016			<0.0025		<0.0025		<0.0025
7/26/2016	<0.0025	<0.0025				<0.0025	
9/13/2016		<0.0025	<0.0025				
9/14/2016				<0.0025			<0.0025
9/15/2016	<0.0025					<0.0025	
9/19/2016					<0.0025		
11/1/2016		<0.0025			<0.0025	<0.0025	<0.0025
11/2/2016	<0.0025						
11/4/2016			<0.0025	<0.0025			
12/15/2016				<0.0025			
1/10/2017	<0.0025						
1/11/2017		0.0002 (J)				0.0001 (J)	8E-05 (J)
1/16/2017			<0.0025	<0.0025	<0.0025		
2/21/2017					<0.0025		
3/1/2017							<0.0025
3/2/2017		<0.0025	<0.0025			<0.0025	
3/3/2017				<0.0025			
3/8/2017	7E-05 (J)						
4/26/2017	<0.0025				<0.0025	<0.0025	<0.0025
4/27/2017		<0.0025	<0.0025				
4/28/2017				<0.0025			
5/26/2017				<0.0025			
6/27/2017		<0.0025	<0.0025				
6/28/2017				<0.0025		<0.0025	<0.0025
6/30/2017	<0.0025				<0.0025		
3/27/2018	<0.0025		<0.0025		<0.0025		
3/28/2018				<0.0025		<0.0025	<0.0025
3/29/2018		<0.0025					
2/26/2019	<0.0025				<0.0025		
2/27/2019		<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
3/28/2019		<0.0025	<0.0025				
3/29/2019	<0.0025			<0.0025			
4/1/2019					<0.0025	<0.0025	<0.0025
9/24/2019		<0.0025	<0.0025	<0.0025			
9/25/2019	<0.0025				<0.0025	<0.0025	<0.0025
2/10/2020		<0.0025	<0.0025				
2/11/2020				<0.0025			<0.0025
2/12/2020	<0.0025				<0.0025	<0.0025	
3/18/2020	<0.0025		<0.0025				
3/19/2020		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0025	<0.0025	<0.0025	<0.0025			
6/9/2016					0.00055 (J)	<0.0025	<0.0025
8/1/2016	<0.0025	<0.0025	<0.0025	<0.0025			
8/2/2016					0.0001 (J)	<0.0025	0.0001 (J)
9/20/2016	<0.0025	<0.0025	<0.0025	<0.0025			
9/21/2016					0.0001 (J)	<0.0025	0.0002 (J)
11/7/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	0.0002 (J)
11/8/2016					9E-05 (J)		
1/18/2017	<0.0025	<0.0025	<0.0025		9E-05 (J)	<0.0025	
1/19/2017				<0.0025			0.0001 (J)
2/21/2017	<0.0025	<0.0025				<0.0025	
2/22/2017				<0.0025	0.0001 (J)		0.0001 (J)
2/23/2017			<0.0025				
5/3/2017		<0.0025					
5/5/2017					9E-05 (J)	<0.0025	
5/8/2017	<0.0025		<0.0025	<0.0025			0.0002 (J)
6/30/2017			<0.0025	<0.0025			
7/5/2017					0.0002 (J)		0.0002 (J)
7/7/2017						<0.0025	
7/10/2017	<0.0025	<0.0025					
3/29/2018			<0.0025	<0.0025			<0.0025
3/30/2018	<0.0025	<0.0025			<0.0025	<0.0025	
2/27/2019	<0.0025	<0.0025	<0.0025	<0.0025	0.00014 (J)	<0.0025	0.00026 (J)
4/1/2019			<0.0025	<0.0025	0.00043 (J)		0.00022 (J)
4/2/2019	<0.0025	<0.0025				<0.0025	
9/25/2019	<0.0025	<0.0025					0.00024 (J)
9/26/2019			<0.0025	<0.0025	<0.0025	<0.0025	
2/13/2020	<0.0025	<0.0025	<0.0025	<0.0025	0.00013 (J)	<0.0025	0.00018 (J)
3/19/2020		<0.0025			0.00016 (J)	<0.0025	
3/20/2020	<0.0025		<0.0025	<0.0025			0.00022 (J)

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:51 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

Time Series

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	15	13	25	44			
6/9/2016					36	26	12
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	11.7
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	11.1
11/7/2016	13.8	12.1	26.1	34.9		25.1	11.4
11/8/2016					33.8		
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			12
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		11.2
2/23/2017			28.2				
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			11.2
6/30/2017			27.2	36.2			
7/5/2017					33.4		11.9
7/7/2017						28.6	
7/10/2017	17.4	12.7					
10/5/2017					36.4		12
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					
6/11/2018							12.1
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
10/2/2018	14.7	12.4 (J)	29.2	39.1			11.7 (J)
10/3/2018					32.6	25.8	
4/1/2019			27.4	38	33.8		11.9 (J)
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					10.7
9/26/2019			24.2	37.5	32	26.1	
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			12.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:51 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

Time Series

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	19	18	14	22			
6/9/2016					18	19	15
8/1/2016	17	16	13	21			
8/2/2016					18	18	14
9/20/2016	18	18	13	22			
9/21/2016					18	19	14
11/7/2016	17	16	14	24		20	14
11/8/2016					18		
1/18/2017	19	17	14		18	20	
1/19/2017				22			14
2/21/2017	18	16				19	
2/22/2017				21	18		13
2/23/2017			14				
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			15
6/30/2017			14	21			
7/5/2017					18		14
7/7/2017						20	
7/10/2017	19	15					
10/5/2017					19		15
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					
6/11/2018							13.6
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
10/2/2018	18.3	14	13.8	19.9			13.4
10/3/2018					17.7	20.2	
4/1/2019			14.2	19.7	17.2		13.1
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					11.3
9/26/2019			14.3	19.6	17.3	19.5	
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			11.3

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/12/2020 3:51 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	<0.01				<0.01
6/2/2016	<0.01				<0.01	0.0013 (J)	
7/25/2016			<0.01 (*)		<0.01		<0.01 (*)
7/26/2016	<0.01	<0.01 (*)				<0.01 (*)	
9/13/2016		<0.01	<0.01				
9/14/2016				<0.01			<0.01
9/15/2016	<0.01					<0.01	
9/19/2016					<0.01		
11/1/2016		<0.01			<0.01	<0.01	<0.01
11/2/2016	<0.01						
11/4/2016			<0.01	<0.01			
12/15/2016				<0.01			
1/10/2017	<0.01						
1/11/2017		<0.01				<0.01	<0.01
1/16/2017			<0.01	<0.01	<0.01		
2/21/2017					<0.01		
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	<0.01 (*)						
4/26/2017	<0.01				0.0016 (J)	<0.01	<0.01
4/27/2017		<0.01	<0.01				
4/28/2017				0.0004 (J)			
5/26/2017				<0.01			
6/27/2017		<0.01	<0.01				
6/28/2017				<0.01		<0.01	<0.01
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
2/26/2019	<0.01				<0.01		
2/27/2019		<0.01	<0.01	<0.01		<0.01	<0.01
3/28/2019		<0.01	0.0021 (J)				
3/29/2019	<0.01			<0.01			
4/1/2019					<0.01	<0.01	<0.01
9/24/2019		0.00072 (J)	0.0028 (J)	<0.01			
9/25/2019	<0.01				<0.01	0.0014 (J)	0.0019 (J)
2/10/2020		0.00042 (J)	<0.01				
2/11/2020				<0.01			<0.01
2/12/2020	<0.01				<0.01	<0.01	
3/18/2020	<0.01		0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.01	<0.01	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.01	<0.01	<0.01	<0.01			
6/9/2016					<0.01	<0.01	<0.01
8/1/2016	0.0008 (J)	0.0026 (J)	<0.01	<0.01			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.01	0.001 (J)	<0.01	<0.01			
9/21/2016					<0.01	<0.01	<0.01
11/7/2016	<0.01	0.0013 (J)	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	0.002 (J)	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	<0.01	0.0019 (J)				<0.01	
2/22/2017				<0.01	<0.01		<0.01
2/23/2017			<0.01				
5/3/2017		0.0037 (J)					
5/5/2017					<0.01	<0.01	
5/8/2017	0.0006 (J)		<0.01	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					<0.01		<0.01
7/7/2017						<0.01	
7/10/2017	<0.01 (*)	<0.01 (*)					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.01	0.015	<0.01	<0.01	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	<0.01	0.003 (J)				<0.01	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.01
9/26/2019			<0.01	<0.01	0.00044 (J)	<0.01	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.01	<0.01	0.00047 (J)	<0.01	<0.01
3/19/2020		0.0018 (J)			<0.01	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.01	0.0005 (J)			<0.01

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/12/2020 3:51 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

Time Series

Constituent: Cobalt (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			<0.005
2/21/2017	<0.005	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	<0.005		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	<0.005	0.002 (J)					
3/29/2018			0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005	<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	<0.005	0.0017 (J)	0.092				
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			<0.005
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)	<0.005
4/1/2019			0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
9/25/2019	<0.005	0.0033 (J)					<0.005
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	<0.005	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	<0.005		0.014	0.0022 (J)			<0.005

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/12/2020 3:51 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

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 5/12/2020 3:51 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
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

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:51 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)	<0.3				0.15 (J)
6/2/2016	<0.3				<0.3	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)	<0.3				
9/14/2016				0.08 (J)			0.18 (J)
9/15/2016	<0.3					0.54	
9/19/2016					<0.3		
11/1/2016		<0.3 (*)			<0.3 (*)	0.68	<0.3 (*)
11/2/2016	<0.3 (*)						
11/4/2016			<0.3 (*)	<0.3 (*)			
12/15/2016				0.06 (J)			
1/10/2017	<0.3						
1/11/2017		0.05 (J)				0.49	0.09 (J)
1/16/2017			<0.3 (*)	0.1 (J)	<0.3		
2/21/2017					<0.3 (*)		
3/1/2017							<0.3 (*)
3/2/2017		<0.3 (*)	<0.3 (*)			0.48	
3/3/2017				<0.3 (*)			
3/8/2017	<0.3 (*)						
4/26/2017	<0.3				<0.3	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 (*)	<0.3 (*)				
6/28/2017				0.11 (J)		0.47	0.12 (J)
6/30/2017	<0.3				<0.3 (*)		
10/3/2017		<0.3 (*)	<0.3	<0.3 (*)			
10/4/2017					<0.3	<0.3 (*)	<0.3 (*)
10/5/2017	<0.3						
3/27/2018	<0.3		<0.3		<0.3		
3/28/2018				0.31		0.56	<0.3
3/29/2018		<0.3					
6/5/2018		0.055 (J)					
6/6/2018			<0.3				
6/7/2018				0.11 (J)		0.48	
6/8/2018	<0.3						0.2 (J)
6/11/2018					<0.3		
10/1/2018	<0.3	<0.3	<0.3	<0.3		0.44	<0.3
10/2/2018					<0.3		
2/26/2019	<0.3				<0.3		
2/27/2019		0.052 (J)	<0.3	0.12 (J)		0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.3				
3/29/2019	<0.3			0.13 (J)			
4/1/2019					<0.3	0.45	0.1 (J)
9/24/2019		0.063 (J)	<0.3	0.081 (J)			
9/25/2019	<0.3				<0.3	0.46	0.1 (J)
2/10/2020		0.061 (J)	<0.3				
2/11/2020				0.075 (J)			0.094 (J)
2/12/2020	<0.3				<0.3	0.4	
3/18/2020	<0.3		<0.3				
3/19/2020		0.064 (J)		0.093 (J)	<0.3	0.51	0.11 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.094 (J)	<0.3	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	<0.3 (*)	0.44	<0.3 (*)	<0.3 (*)		0.27 (J)	<0.3 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.3 (*)	<0.3 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.3 (*)
2/21/2017	<0.3 (*)	<0.3 (*)				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	<0.3 (*)	<0.3 (*)					
10/5/2017					<0.3 (*)		<0.3 (*)
10/6/2017				<0.3 (*)			
10/9/2017			<0.3 (*)			<0.3 (*)	
10/10/2017	<0.3	<0.3					
3/29/2018			<0.3	0.49			<0.3
3/30/2018	<0.3	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	<0.3	<0.3	<0.3	<0.3			<0.3
10/3/2018					<0.3	0.31	
2/27/2019	<0.3	<0.3	<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)	<0.3				0.14 (J)	
9/25/2019	0.064 (J)	<0.3					0.054 (J)
9/26/2019			0.14 (J)	0.22 (J)	0.29 (J)	0.28 (J)	
2/13/2020	<0.3	<0.3	<0.3	0.11 (J)	0.14 (J)	0.18 (J)	0.053 (J)
3/19/2020		<0.3			0.07 (J)	0.16 (J)	
3/20/2020	0.06 (J)		<0.3	0.097 (J)			0.057 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 5/12/2020 3:51 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)	<0.005				<0.005
6/2/2016	<0.005				<0.005	0.00056 (J)	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	<0.005				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					0.0002 (J)	
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							<0.005
3/2/2017		0.0001 (J)	<0.005			0.0002 (J)	
3/3/2017				<0.005			
3/8/2017	0.0001 (J)						
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
2/10/2020		4.9E-05 (J)	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00012 (J)		<0.005	<0.005	0.00017 (J)	<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005 (*)			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	<0.005	<0.005	<0.005	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	0.0002 (J)			
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		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						7E-05 (J)	
7/10/2017	<0.005	8E-05 (J)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2020	<0.005	<0.005	<0.005	6.2E-05 (J)	<0.005	5.4E-05 (J)	<0.005
3/19/2020		0.0001 (J)			<0.005	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.005	8.5E-05 (J)			<0.005

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/12/2020 3:51 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)

Time Series

Constituent: Lithium (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			0.0055 (J)
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (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			0.0066 (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)	<0.03					
3/29/2018			0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)	<0.03			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)	<0.03	0.014 (J)				
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			0.006 (J)
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	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				<0.03	
9/25/2019	0.0073 (J)	<0.03					0.0057 (J)
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020		<0.03			0.007 (J)	<0.03	
3/20/2020	0.0072 (J)		0.0091 (J)	<0.03			0.0051 (J)

Time Series

Constituent: Mercury (mg/L) Analysis Run 5/12/2020 3:51 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		<0.0005				<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	<0.0005 (*)						
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	6.1E-05 (J)				6.8E-05 (J)		
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0005		6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0005				
3/29/2019	<0.0005			<0.0005			
4/1/2019					8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)
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	

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/12/2020 3:51 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)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 5/12/2020 3:51 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	<0.01
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	<0.01
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		<0.01
2/23/2017			<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)		<0.01
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
6/11/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
10/2/2018	<0.01	<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	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	<0.01	<0.01				<0.01	
9/25/2019	<0.01	<0.01					<0.01
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			<0.01

Time Series

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:51 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 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	6.19
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	6.17
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	6.2
11/7/2016	5.91	5.35	6.3	6.25		6.36	6.1
11/8/2016					6.37		
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			6.22
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		6.12
2/23/2017			6.18				
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			6.11
6/30/2017			6.21	6.17			
7/5/2017					6.4		6.17
7/7/2017						6.46	
7/10/2017	5.92	5.25					
10/5/2017					6.43		6.17
10/6/2017				6.13			
10/9/2017			6.26			6.37	
10/10/2017	5.84	5.17					
3/29/2018			6.36	6.25			6.09
3/30/2018	6.19	5.19			6.39	6.35	
6/11/2018							6.17
6/12/2018				6.22	6.42	6.47	
6/13/2018	5.82	5.12	6.28				
10/2/2018	5.81	4.95	5.9	5.99			6.17
10/3/2018					6.21	6.01	
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	6.19
4/1/2019			6.43	6.4	6.3		6.03
4/2/2019	5.87	5.13				6.7	
9/25/2019	5.79	5.24					6.21
9/26/2019			6.3	6.22	6.43	6.47	
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	6.32
3/19/2020		5.46			7.01	6.98	
3/20/2020	5.94		6.32	6.18			6.17

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/12/2020 3:51 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		<0.01	<0.01				<0.01
6/2/2016	0.0011 (J)				<0.01	<0.01	
7/25/2016			<0.01		<0.01		<0.01
7/26/2016	0.0016 (J)	<0.01				<0.01	
9/13/2016		<0.01	<0.01				
9/14/2016				<0.01			<0.01
9/15/2016	0.0014 (J)					<0.01	
9/19/2016					<0.01		
11/1/2016		<0.01			<0.01	<0.01	<0.01
11/2/2016	<0.01						
11/4/2016			<0.01	<0.01			
12/15/2016				<0.01			
1/10/2017	0.0012 (J)						
1/11/2017		<0.01				<0.01	<0.01
1/16/2017			<0.01	<0.01	<0.01		
2/21/2017					<0.01		
3/1/2017							<0.01
3/2/2017		<0.01	<0.01			<0.01	
3/3/2017				<0.01			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	<0.01	<0.01
4/27/2017		<0.01	<0.01				
4/28/2017				<0.01			
5/26/2017				<0.01			
6/27/2017		<0.01	<0.01				
6/28/2017				<0.01		<0.01	<0.01
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
2/26/2019	<0.01				<0.01		
2/27/2019		<0.01	<0.01	<0.01		<0.01	<0.01
3/28/2019		<0.01	<0.01				
3/29/2019	0.0019 (J)			<0.01			
4/1/2019					<0.01	<0.01	<0.01
9/24/2019		<0.01	<0.01	<0.01			
9/25/2019	<0.01				<0.01	<0.01	<0.01
2/10/2020		<0.01	<0.01				
2/11/2020				<0.01			<0.01
2/12/2020	<0.01				<0.01	<0.01	
3/18/2020	<0.01		<0.01				
3/19/2020		<0.01		<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 5/12/2020 3:51 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0016	0.0003 (J)	<0.01	<0.01			
6/9/2016					<0.01	<0.01	<0.01
8/1/2016	0.0023 (J)	0.0014 (J)	<0.01	<0.01			
8/2/2016					<0.01	<0.01	<0.01
9/20/2016	0.0022 (J)	<0.01	<0.01	<0.01			
9/21/2016					<0.01	0.001 (J)	<0.01
11/7/2016	0.0017 (J)	<0.01	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	0.002 (J)	0.0012 (J)	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	0.0018 (J)	0.0014 (J)				<0.01	
2/22/2017				<0.01	0.0012 (J)		<0.01
2/23/2017			<0.01				
5/3/2017		<0.01					
5/5/2017					<0.01	<0.01	
5/8/2017	<0.01		<0.01	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					<0.01		<0.01
7/7/2017						<0.01	
7/10/2017	0.002 (J)	<0.01					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
2/27/2019	0.002 (J)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	0.0017 (J)	<0.01				<0.01	
9/25/2019	0.0019 (J)	<0.01					<0.01
9/26/2019			<0.01	<0.01	<0.01	<0.01	
2/13/2020	0.0019 (J)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/19/2020		<0.01			<0.01	<0.01	
3/20/2020	0.0019 (J)		<0.01	<0.01			<0.01

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:51 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

Time Series

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:51 PM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	33
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	32
9/20/2016	78	100	5.6	21			
9/21/2016					8	<1.5 (*)	32
11/7/2016	81	100	5.4	24		4.3	33
11/8/2016					8.3		
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			32
2/21/2017	80	96				3	
2/22/2017				24	8.2		31
2/23/2017			4.9				
5/3/2017		100					
5/5/2017					<1.5 (*)	<1.5 (*)	
5/8/2017	84		3.9	23			32
6/30/2017			5	23			
7/5/2017					8.1		31
7/7/2017						2.7	
7/10/2017	84	100					
10/5/2017					8.6		31
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					
6/11/2018							30.6
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
10/2/2018	83.9	99	6.1	20.2			30.8
10/3/2018					8	2.1	
4/1/2019			4.1	18.3	8.2		30.4
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					30
9/26/2019			4.2	18.2	7.9	1.6	
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			33

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/12/2020 3:51 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

Time Series

Constituent: Thallium (mg/L) Analysis Run 5/12/2020 3:51 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.001	<0.001	<0.001	0.00012 (J)			
6/9/2016					<0.001	<0.001	<0.001
8/1/2016	<0.001	<0.001	<0.001	0.0001 (J)			
8/2/2016					<0.001	<0.001	<0.001
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					<0.001	<0.001	<0.001
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	<0.001
11/8/2016					<0.001		
1/18/2017	<0.001	<0.001	<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		<0.001
2/23/2017			<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		<0.001
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
3/29/2018			<0.001	<0.001			<0.001
3/30/2018	<0.001	<0.001			<0.001	<0.001	
2/27/2019	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
2/13/2020	<0.001	5.7E-05 (J)	<0.001	0.0001 (J)	<0.001	<0.001	<0.001
3/19/2020		5.5E-05 (J)			<0.001	<0.001	
3/20/2020	<0.001		<0.001	0.00011 (J)			<0.001

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:51 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

Time Series

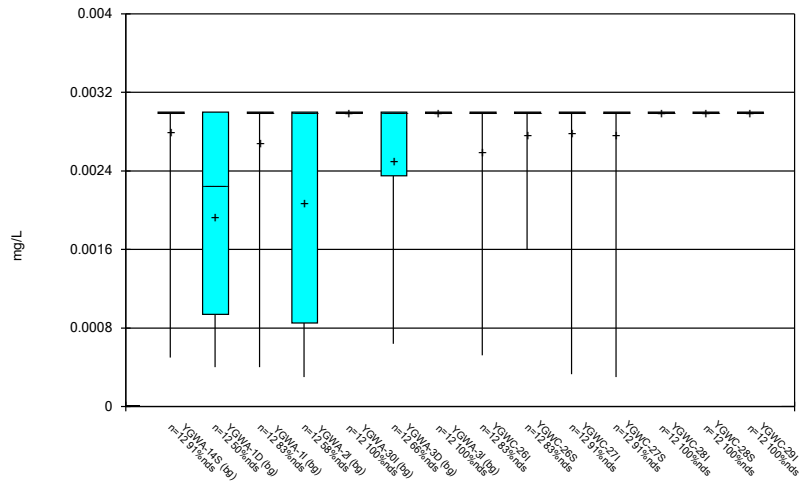
Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:51 PM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	220	200	190	210			
6/9/2016					240	210	150
8/1/2016	211	191	191	209			
8/2/2016					226	202	155
9/20/2016	217	213	205	224			
9/21/2016					214	216	138
11/7/2016	301	284	264	291		399	291
11/8/2016					229		
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			145 (D)
2/21/2017	158	137				198	
2/22/2017				262	310		185
2/23/2017			253				
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			114
6/30/2017			193	209			
7/5/2017					217		136
7/7/2017						236	
7/10/2017	219	183					
10/5/2017					221		139
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					
6/11/2018							156
6/12/2018				208	234	243	
6/13/2018	228	196	219				
10/2/2018	227	191	227	206			154
10/3/2018					232	237	
4/1/2019			198	221	238		147
4/2/2019	223	224				<25	
9/25/2019	225	190					162
9/26/2019			198	225	241	239	
3/19/2020		194			212	202	
3/20/2020	211		195	182			137

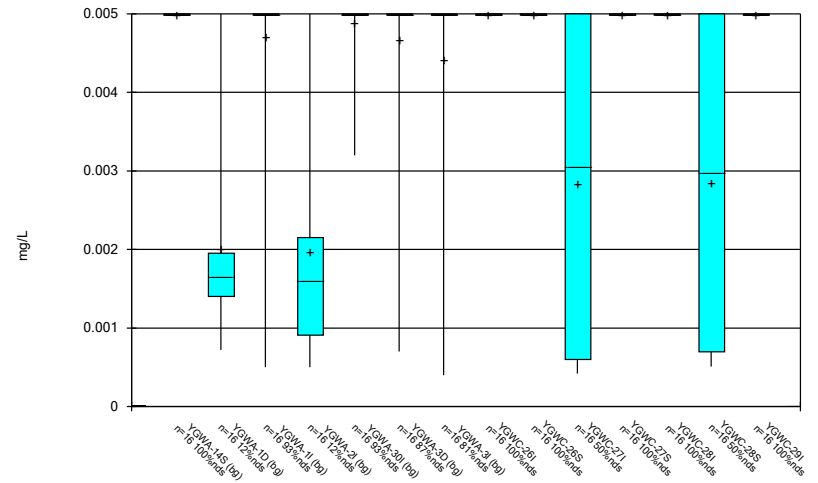
FIGURE B.

Box & Whiskers Plot



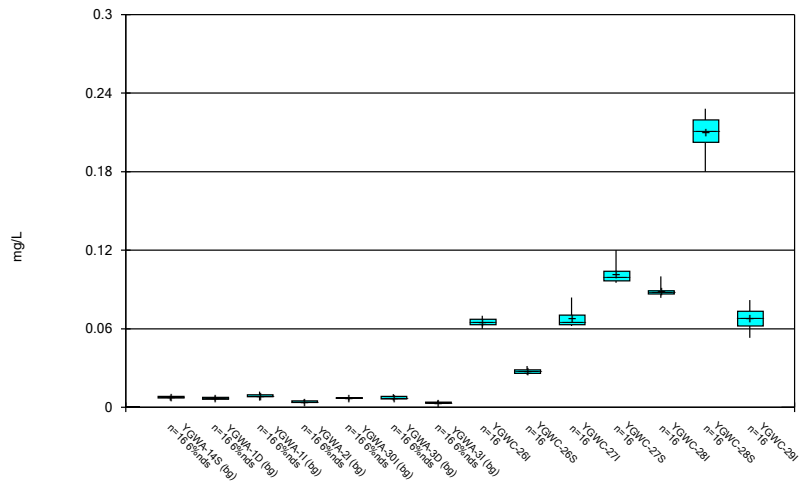
Constituent: Antimony Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



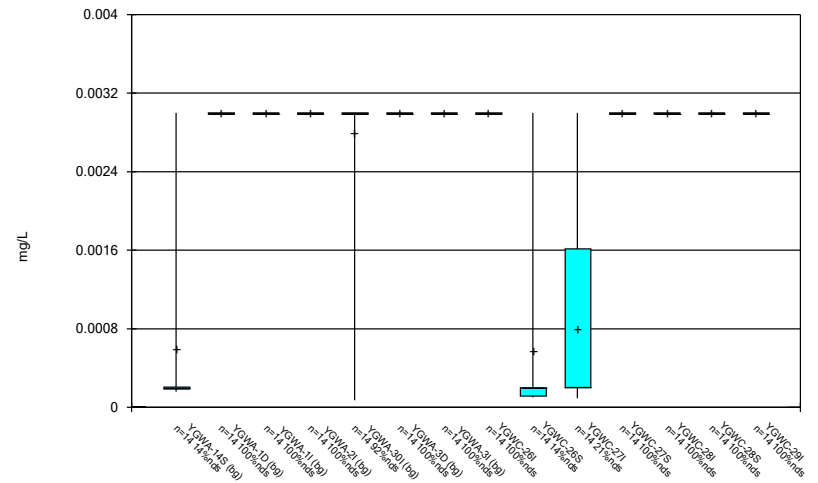
Constituent: Arsenic Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



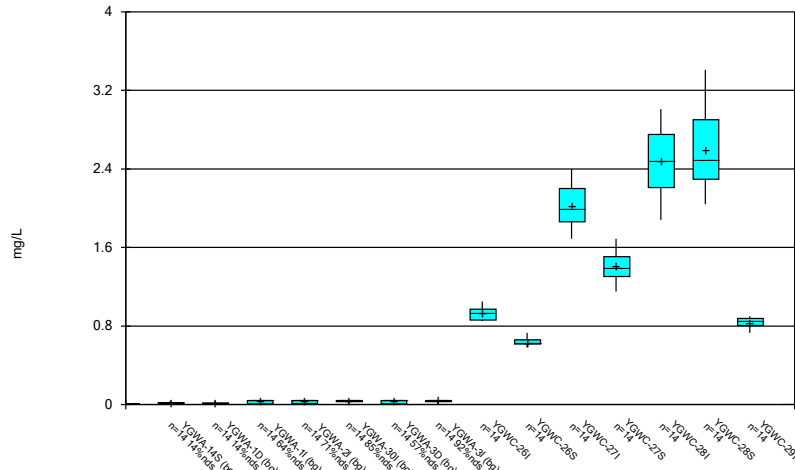
Constituent: Barium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



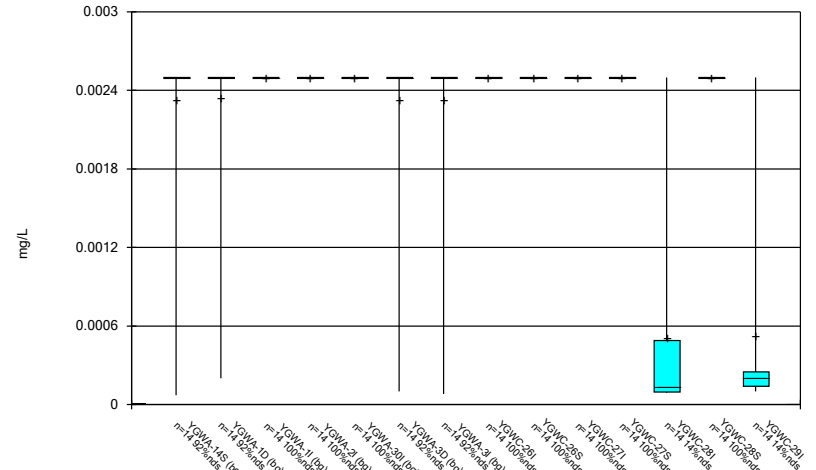
Constituent: Beryllium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



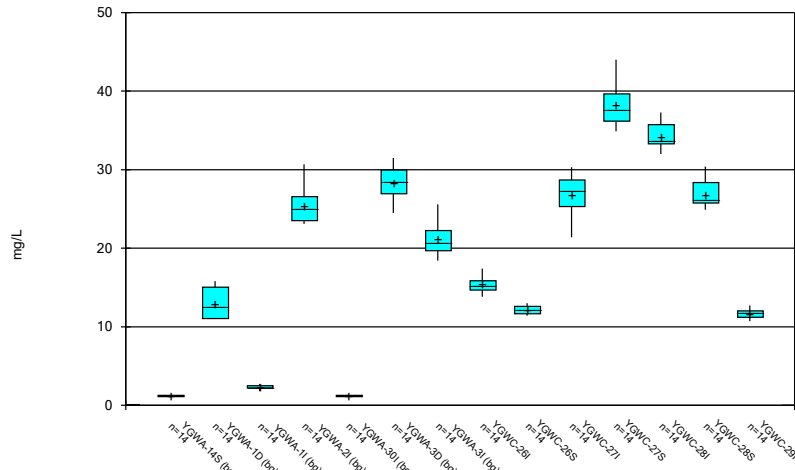
Constituent: Boron Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



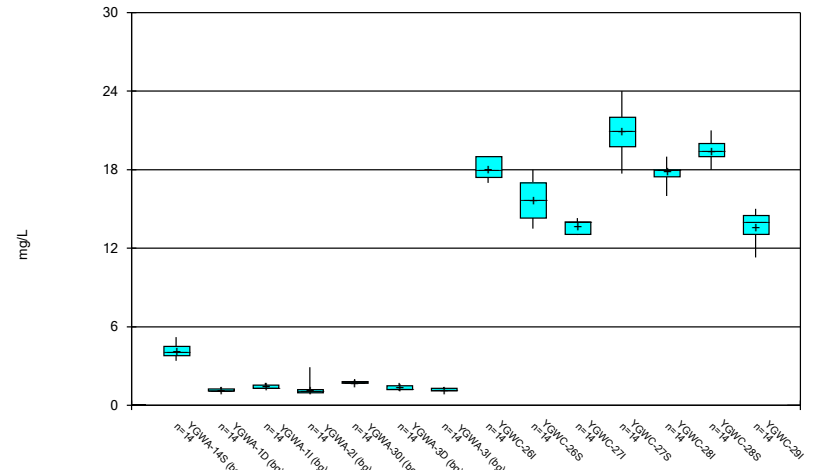
Constituent: Cadmium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



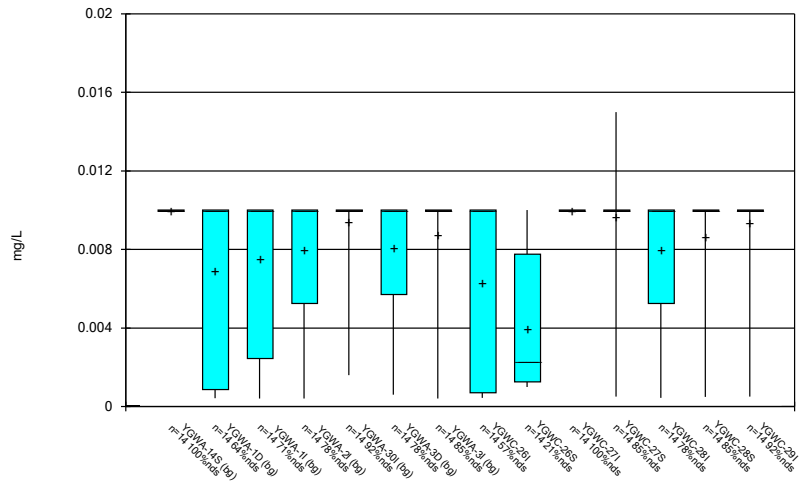
Constituent: Calcium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



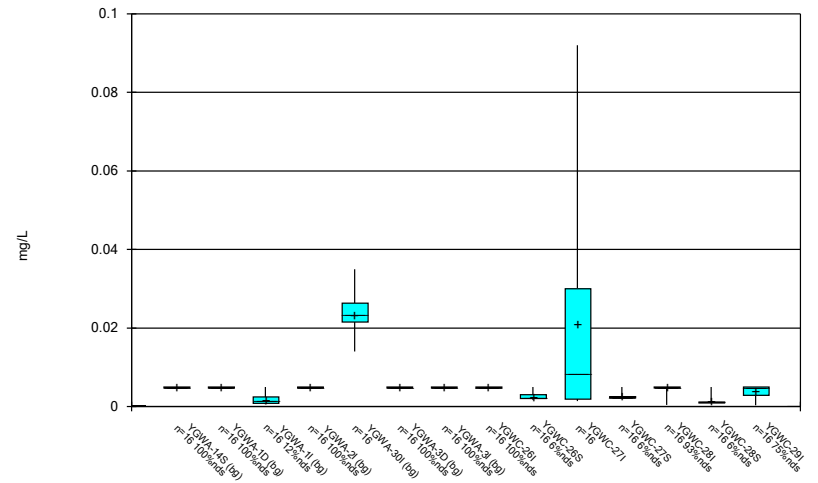
Constituent: Chloride Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



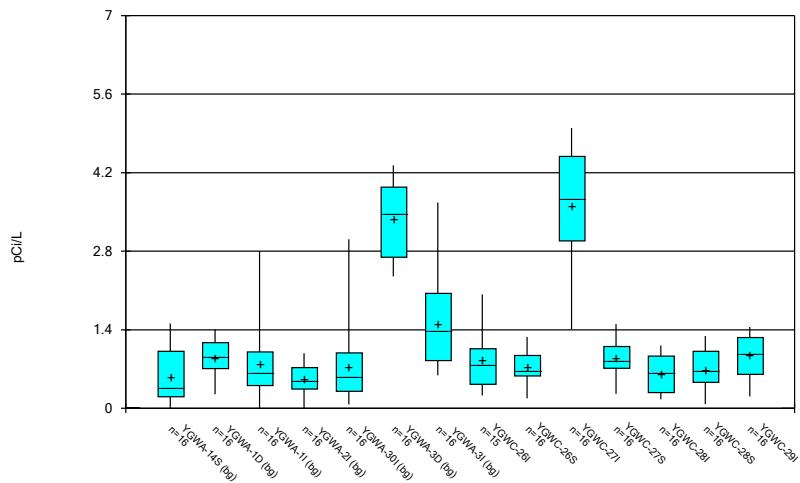
Constituent: Chromium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



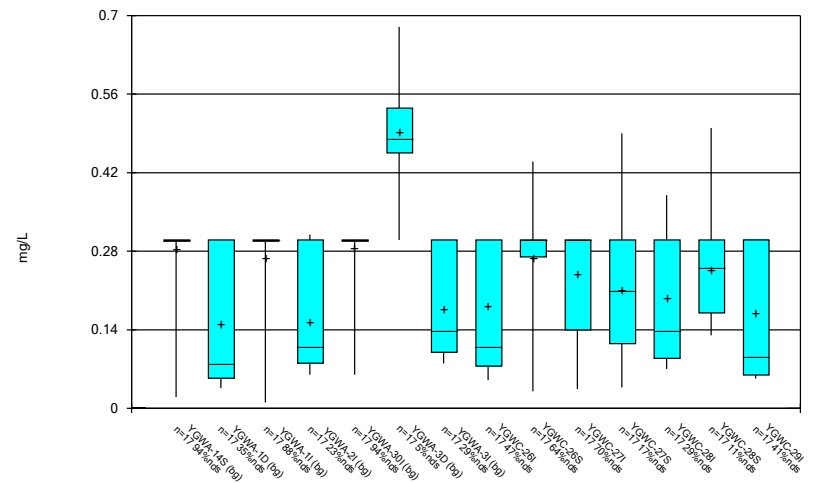
Constituent: Cobalt Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



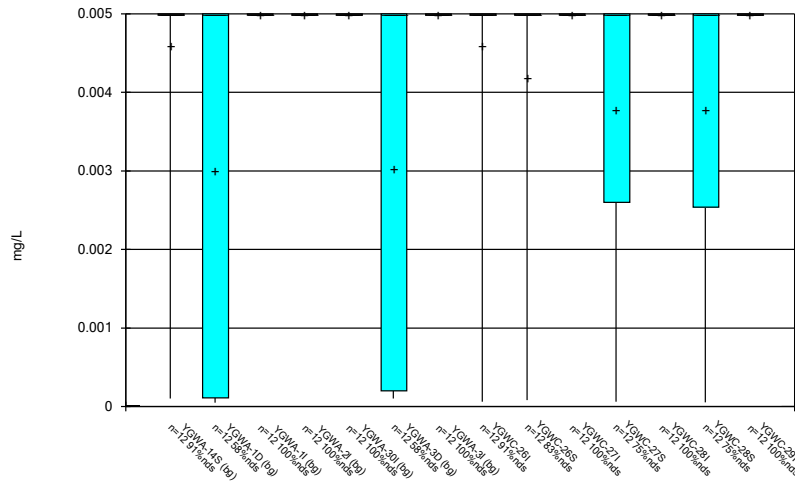
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



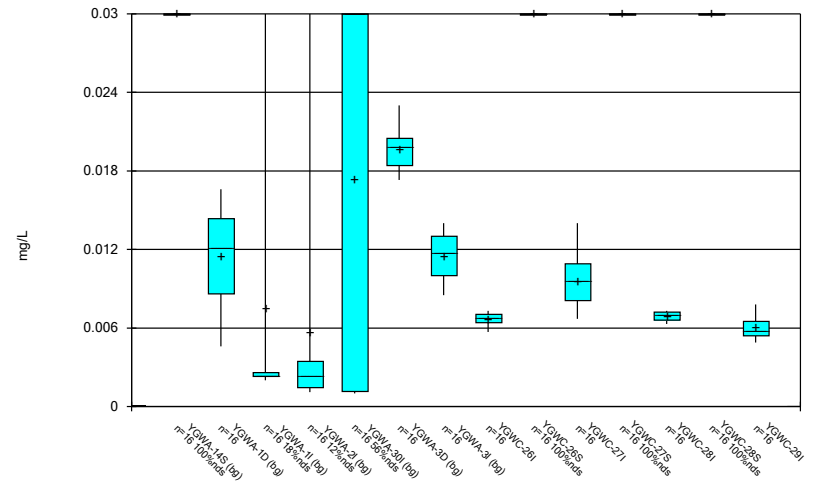
Constituent: Fluoride Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



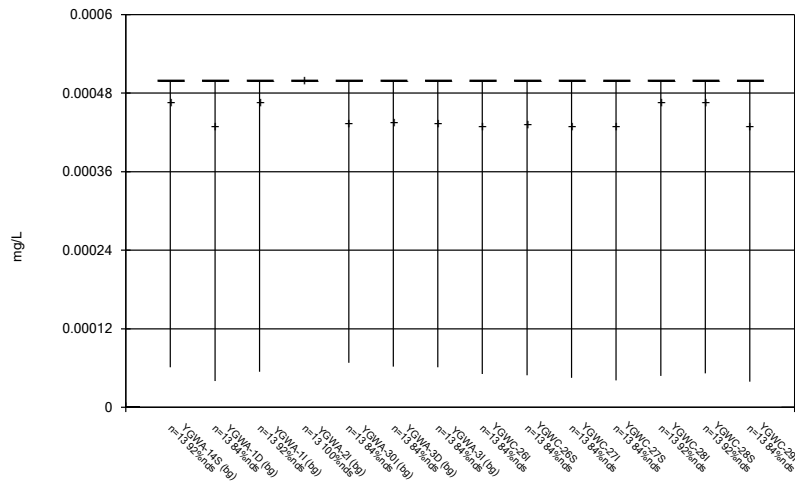
Constituent: Lead Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



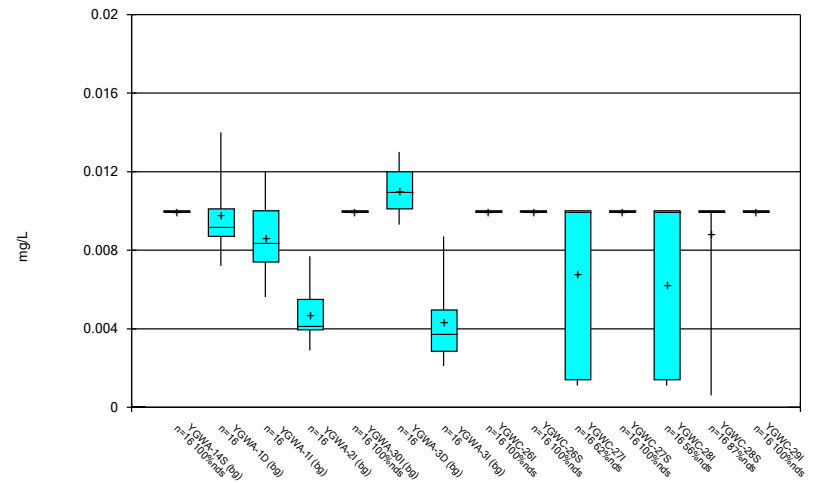
Constituent: Lithium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



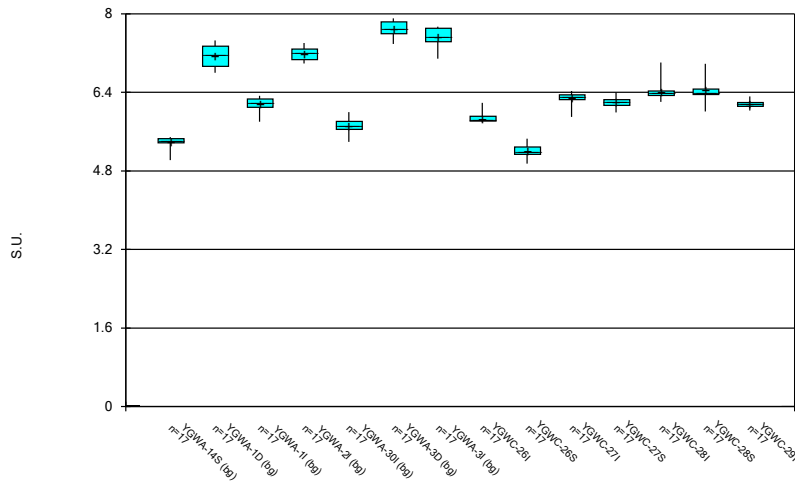
Constituent: Mercury Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



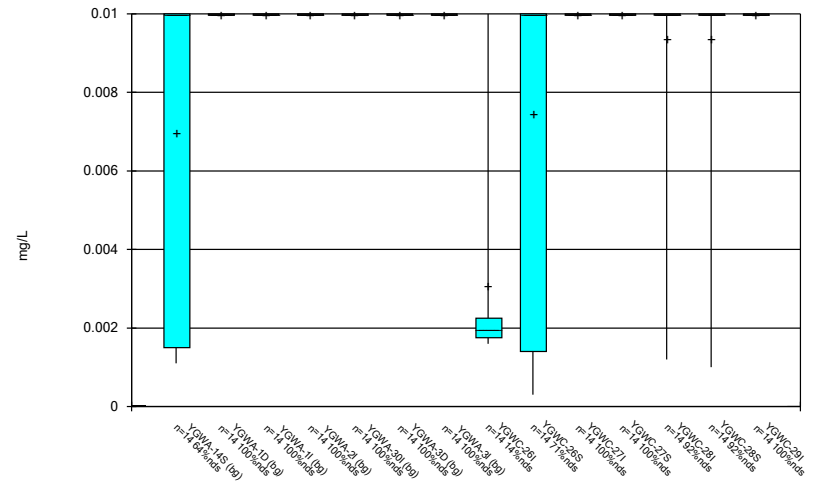
Constituent: Molybdenum Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



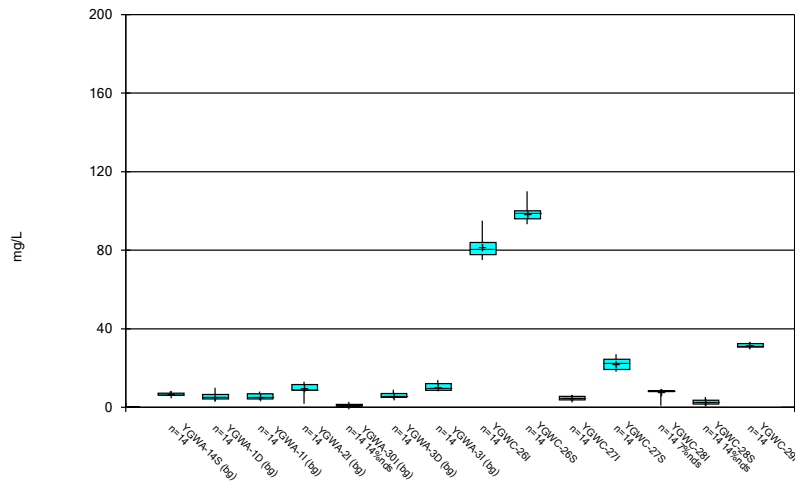
Constituent: pH Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



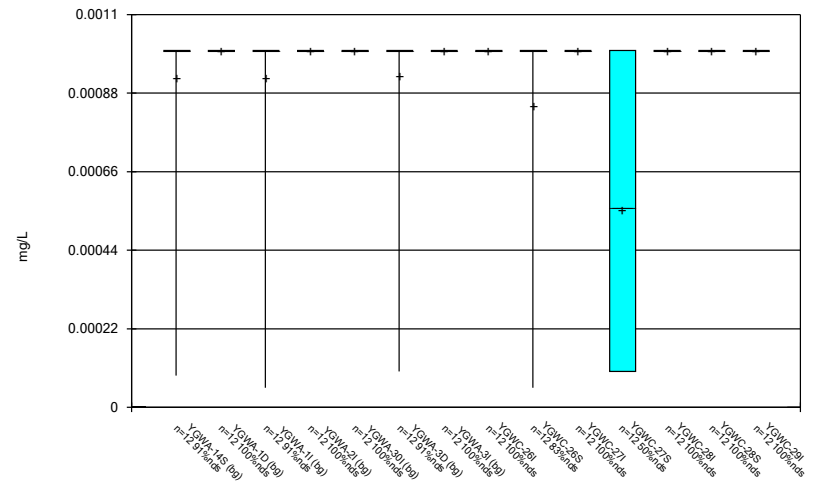
Constituent: Selenium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



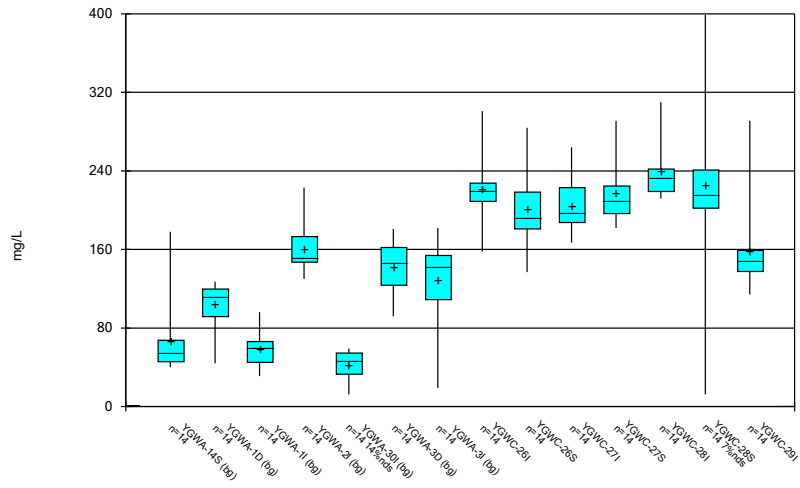
Constituent: Sulfate Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Thallium Analysis Run 5/12/2020 3:52 PM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:52 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 5/12/2020, 3:53 PM

YGWC-261 Combined Radium 226 + 228 (pCi/L)

6/8/2016

6.68 (o)

Appendix III Tukey's Outlier Analysis - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/11/2020, 4:19 PM

<u>Constituent</u>	<u>Well</u>	<u>Outlier</u>	<u>Value(s)</u>	<u>Method</u>	<u>N</u>	<u>Mean</u>	<u>Std. Dev.</u>	<u>Distribution</u>	<u>Normality Test</u>
Chloride (mg/L)	YGWA-14S, YGWA-1D, ...	Yes	4.1, 4.1, 4.1, 4.1, 4.2, 4.2, 4.2, 4.2, 4.9, 3.7, 3.8, 3.8, 4.8, 5.2	NP	98	1.748	1.054	normal	ShapiroFrancia

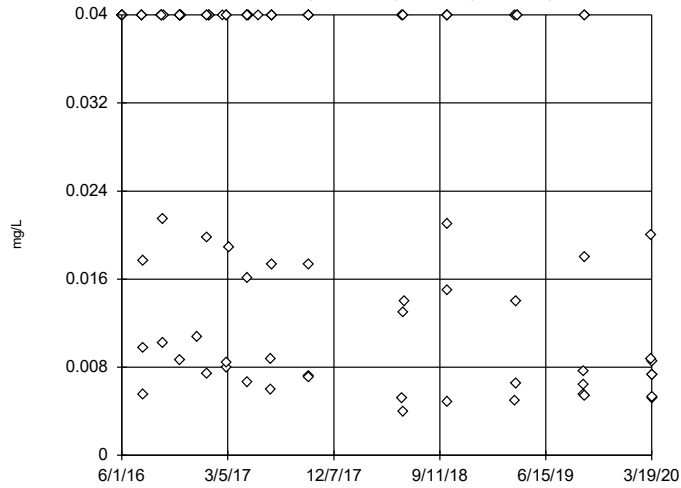
Appendix III Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/11/2020, 4:19 PM

Constituent	Well	Outlier	Value(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Boron (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	98	0.02735	0.01509	normal	ShapiroFrancia
Calcium (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	98	13.21	11.18	normal	ShapiroFrancia
Chloride (mg/L)	YGWA-14S, YGWA-1D, ...	Yes	4.1, 4.1, 4.1, 4.1, 4.2, 4.2, 4.2, 4.2, 4.9, 3.7, 3.8, 3.8, 4.8, 5.2	NP	98	1.748	1.054	normal	ShapiroFrancia
Fluoride (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	119	0.2586	0.1406	normal	ChiSquared
pH (S.U.)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	119	6.687	0.8682	normal	ChiSquared
Sulfate (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	98	6.415	3.211	normal	ShapiroFrancia
Total Dissolved Solids (mg/L)	YGWA-14S, YGWA-1D, ...	No	n/a	NP	98	100.5	50.19	normal	ShapiroFrancia

Tukey's Outlier Screening, Pooled Background

YGWA-14S, YGWA-1D, YGWA-1I, YGWA-2I, YGWA...

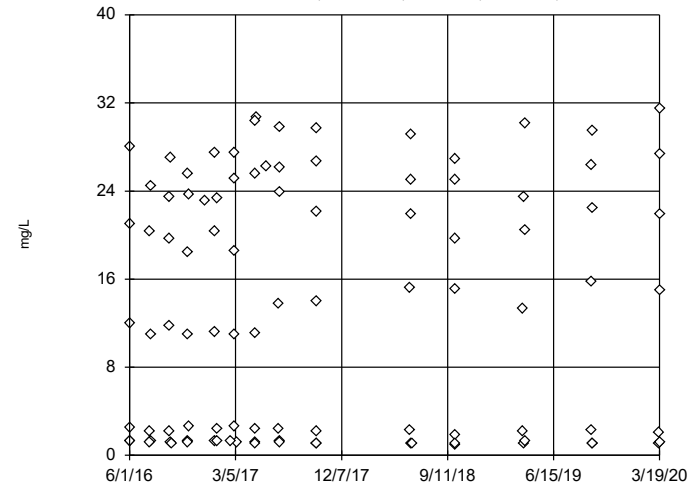


n = 98
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.1339,
 low cutoff = -0.0852,
 based on IQR multiplier of 3.

Constituent: Boron Analysis Run 5/11/2020 4:17 PM View: Appendix III
 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...

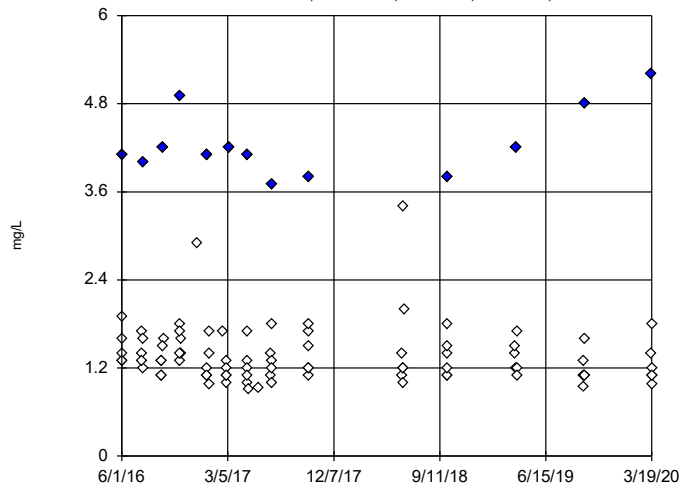


n = 98
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 93.07,
 low cutoff = -67.62,
 based on IQR multiplier of 3.

Constituent: Calcium Analysis Run 5/11/2020 4:17 PM View: Appendix III
 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...

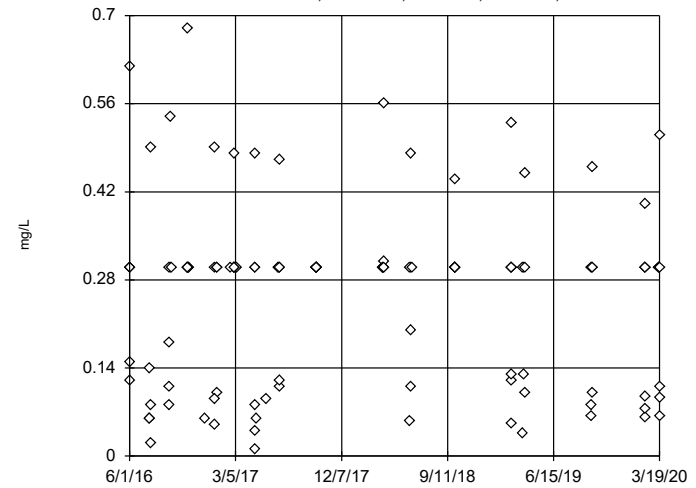


n = 98
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 3.5, low cutoff = -0.7,
 based on IQR multiplier of 3.

Constituent: Chloride Analysis Run 5/11/2020 4:17 PM View: Appendix III
 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...

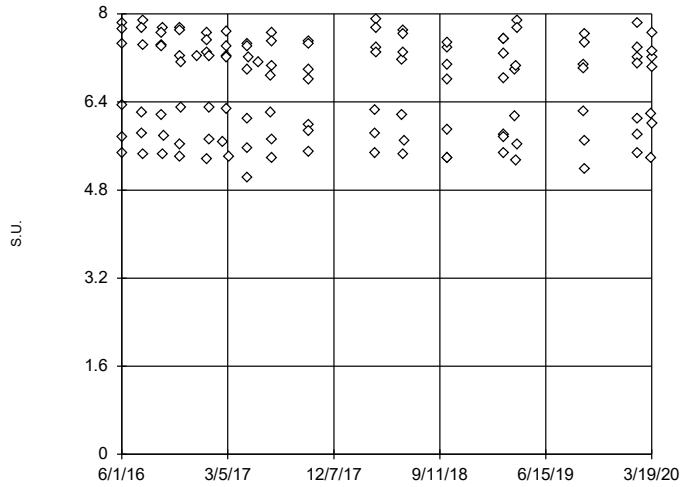


n = 119
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.87, low cutoff = -0.46,
 based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/11/2020 4:17 PM View: Appendix III
 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...

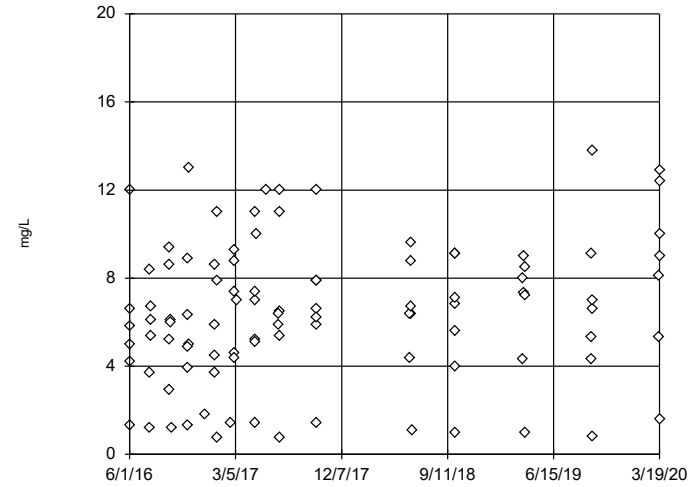


n = 119
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 12.4, low cutoff = 0.85, based on IQR multiplier of 3.

Constituent: pH Analysis Run 5/11/2020 4:17 PM View: Appendix III
 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...

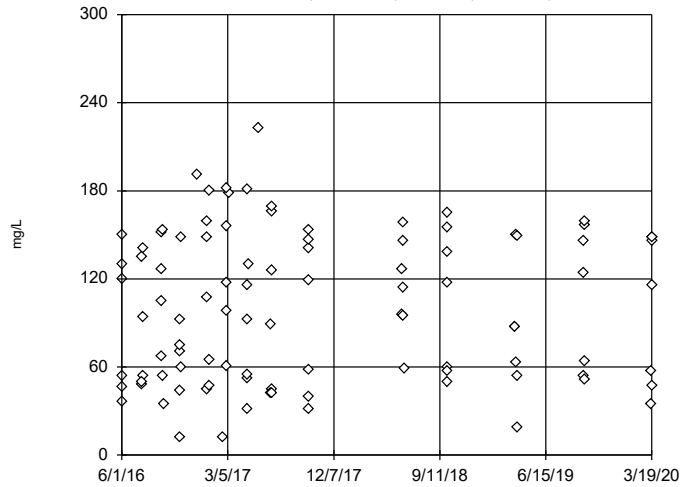


n = 98
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 21.6, low cutoff = -8.5, based on IQR multiplier of 3.

Constituent: Sulfate Analysis Run 5/11/2020 4:17 PM View: Appendix III
 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 = 98
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 430, low cutoff = -228, based on IQR multiplier of 3.

Constituent: Total Dissolved Solids Analysis Run 5/11/2020 4:17 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Appendix IV Tukey's Outlier Analysis - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Arsenic (mg/L)	YGWA-1D (bg)	Yes	0.005,0.005	9/13/2016,11/1/2016	NP	16	0.002011	0.001242	normal	ShapiroWilk
Barium (mg/L)	YGWA-30I (bg)	Yes	0.005	3/27/2018	NP	16	0.006975	0.0006245	normal	ShapiroWilk
Barium (mg/L)	YGWC-28I	Yes	0.1	6/9/2016	NP	16	0.08876	0.003645	normal	ShapiroWilk
Beryllium (mg/L)	YGWA-14S (bg)	Yes	0.003,0.003	6/2/2016,3/27/2018	NP	14	0.0005936	0.00102	normal	ShapiroWilk
Beryllium (mg/L)	YGWC-26S	Yes	0.003,0.003	6/8/2016,3/30/2018	NP	14	0.000565	0.001032	normal	ShapiroWilk
Cadmium (mg/L)	YGWC-28I	Yes	0.0025,0.0025	3/30/2018,9/26/2019	NP	14	0.0005129	0.0008531	normal	ShapiroWilk
Cadmium (mg/L)	YGWC-29I	Yes	0.001,0.001	6/9/2016,3/29/2018	NP	14	0.0003014	0.0003003	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-27S	Yes	0.005	3/29/2018	NP	16	0.002544	0.0006723	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-28S	Yes	0.005	3/30/2018	NP	16	0.001263	0.001007	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	Yes	6.68	6/8/2016	NP	16	1.223	1.549	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-26S	Yes	0.03,0.44,0.16,0.044	9/20/2016,11/7/2016,5/3/2017,6/13/2018	NP	17	0.2685	0.1021	normal	ShapiroWilk
Lithium (mg/L)	YGWA-1I (bg)	Yes	0.03,0.03,0.03	6/1/2016,9/13/2016,11/4/2016	NP	16	0.007525	0.01115	normal	ShapiroWilk
Lithium (mg/L)	YGWA-2I (bg)	Yes	0.03,0.03	11/4/2016,10/1/2018	NP	16	0.005694	0.00953	normal	ShapiroWilk
Selenium (mg/L)	YGWC-26I	Yes	0.01,0.01	5/8/2017,3/30/2018	NP	14	0.003071	0.002941	normal	ShapiroWilk

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Antimony (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	12	0.002792	0.0007217	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-1D (bg)	No n/a	n/a	NP	12	0.001932	0.001151	normal	ShapiroWilk
Antimony (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	12	0.002675	0.0008081	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	12	0.002072	0.001193	normal	ShapiroWilk
Antimony (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWA-3D (bg)	No n/a	n/a	NP	12	0.002512	0.0008862	normal	ShapiroWilk
Antimony (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-26I	n/a n/a	n/a	NP	12	0.002593	0.0009518	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-26S	n/a n/a	n/a	NP	12	0.002775	0.0005259	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-27I	n/a n/a	n/a	NP	12	0.002778	0.0007708	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-27S	n/a n/a	n/a	NP	12	0.002775	0.0007794	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-28I	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-28S	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Antimony (mg/L)	YGWC-29I	n/a n/a	n/a	NP	12	0.003	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-1D (bg)	Yes 0.005,0.005	9/13/2016,11/1/2016	NP	16	0.002011	0.001242	normal	ShapiroWilk
Arsenic (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	16	0.004719	0.001125	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	16	0.001963	0.001503	normal	ShapiroWilk
Arsenic (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	16	0.004887	0.00045	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	16	0.004656	0.001097	unknown	ShapiroWilk
Arsenic (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	16	0.004412	0.001453	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-26I	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-26S	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-27I	No n/a	n/a	NP	16	0.00284	0.002236	normal	ShapiroWilk
Arsenic (mg/L)	YGWC-27S	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-28I	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Arsenic (mg/L)	YGWC-28S	No n/a	n/a	NP	16	0.002844	0.002228	normal	ShapiroWilk
Arsenic (mg/L)	YGWC-29I	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Barium (mg/L)	YGWA-14S (bg)	No n/a	n/a	NP	16	0.007575	0.001019	normal	ShapiroWilk
Barium (mg/L)	YGWA-1D (bg)	No n/a	n/a	NP	16	0.006844	0.0009647	normal	ShapiroWilk
Barium (mg/L)	YGWA-1I (bg)	No n/a	n/a	NP	16	0.008769	0.001662	normal	ShapiroWilk
Barium (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	16	0.004119	0.0008296	normal	ShapiroWilk
Barium (mg/L)	YGWA-30I (bg)	Yes 0.005	3/27/2018	NP	16	0.006975	0.0006245	normal	ShapiroWilk
Barium (mg/L)	YGWA-3D (bg)	No n/a	n/a	NP	16	0.007312	0.00137	normal	ShapiroWilk
Barium (mg/L)	YGWA-3I (bg)	No n/a	n/a	NP	16	0.003531	0.0006916	normal	ShapiroWilk
Barium (mg/L)	YGWC-26I	No n/a	n/a	NP	16	0.06526	0.002713	normal	ShapiroWilk
Barium (mg/L)	YGWC-26S	No n/a	n/a	NP	16	0.02756	0.0017	normal	ShapiroWilk
Barium (mg/L)	YGWC-27I	No n/a	n/a	NP	16	0.06765	0.006649	normal	ShapiroWilk
Barium (mg/L)	YGWC-27S	No n/a	n/a	NP	16	0.1018	0.007225	normal	ShapiroWilk
Barium (mg/L)	YGWC-28I	Yes 0.1	6/9/2016	NP	16	0.08876	0.003645	normal	ShapiroWilk
Barium (mg/L)	YGWC-28S	No n/a	n/a	NP	16	0.2102	0.01155	normal	ShapiroWilk
Barium (mg/L)	YGWC-29I	No n/a	n/a	NP	16	0.06773	0.008408	normal	ShapiroWilk
Beryllium (mg/L)	YGWA-14S (bg)	Yes 0.003,0.003	6/2/2016,3/27/2018	NP	14	0.0005936	0.00102	normal	ShapiroWilk
Beryllium (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	14	0.002791	0.0007825	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWC-26I	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWC-26S	Yes 0.003,0.003	6/8/2016,3/30/2018	NP	14	0.000565	0.001032	normal	ShapiroWilk
Beryllium (mg/L)	YGWC-27I	No n/a	n/a	NP	14	0.0007907	0.001198	normal	ShapiroWilk
Beryllium (mg/L)	YGWC-27S	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWC-28I	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Beryllium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Beryllium (mg/L)	YGWC-29I	n/a n/a	n/a	NP	14	0.003	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	14	0.002326	0.0006494	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	14	0.002336	0.0006147	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	14	0.002329	0.0006414	unknown	ShapiroWilk
Cadmium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	14	0.002327	0.0006468	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-26I	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-26S	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-27I	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-27S	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-28I	Yes 0.0025,0.0025	3/30/2018,9/26/2019	NP	14	0.0005129	0.0008531	normal	ShapiroWilk
Cadmium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	14	0.0025	0	unknown	ShapiroWilk
Cadmium (mg/L)	YGWC-29I	Yes 0.001,0.001	6/9/2016,3/29/2018	NP	14	0.0003014	0.0003003	normal	ShapiroWilk
Chromium (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-1D (bg)	No n/a	n/a	NP	14	0.006884	0.004394	normal	ShapiroWilk
Chromium (mg/L)	YGWA-1I (bg)	No n/a	n/a	NP	14	0.007553	0.004057	normal	ShapiroWilk
Chromium (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	14	0.007956	0.004062	normal	ShapiroWilk
Chromium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	14	0.0094	0.002245	unknown	ShapiroWilk
Chromium (mg/L)	YGWA-3D (bg)	No n/a	n/a	NP	14	0.008093	0.003794	normal	ShapiroWilk
Chromium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	14	0.008736	0.003227	unknown	ShapiroWilk
Chromium (mg/L)	YGWC-26I	No n/a	n/a	NP	14	0.006294	0.004571	normal	ShapiroWilk
Chromium (mg/L)	YGWC-26S	No n/a	n/a	NP	14	0.003943	0.003491	normal	ShapiroWilk
Chromium (mg/L)	YGWC-27I	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Chromium (mg/L)	YGWC-27S	n/a n/a	n/a	NP	14	0.009679	0.002959	unknown	ShapiroWilk
Chromium (mg/L)	YGWC-28I	No n/a	n/a	NP	14	0.007958	0.004058	normal	ShapiroWilk
Chromium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	14	0.008642	0.003452	unknown	ShapiroWilk
Chromium (mg/L)	YGWC-29I	n/a n/a	n/a	NP	14	0.009321	0.002539	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-1I (bg)	No n/a	n/a	NP	16	0.001871	0.001406	normal	ShapiroWilk
Cobalt (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-30I (bg)	No n/a	n/a	NP	16	0.02335	0.005626	normal	ShapiroWilk
Cobalt (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWC-26I	n/a n/a	n/a	NP	16	0.005	0	unknown	ShapiroWilk
Cobalt (mg/L)	YGWC-26S	No n/a	n/a	NP	16	0.0025	0.0008446	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-27I	No n/a	n/a	NP	16	0.02107	0.02867	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-27S	Yes 0.005	3/29/2018	NP	16	0.002544	0.0006723	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-28I	n/a n/a	n/a	NP	16	0.004714	0.001145	unknown	ShapiroWilk
Cobalt (mg/L)	YGWC-28S	Yes 0.005	3/30/2018	NP	16	0.001263	0.001007	normal	ShapiroWilk
Cobalt (mg/L)	YGWC-29I	No n/a	n/a	NP	16	0.003882	0.002	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-14S (bg)	No n/a	n/a	NP	16	0.5584	0.4684	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-1D (bg)	No n/a	n/a	NP	16	0.8898	0.3394	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-1I (bg)	No n/a	n/a	NP	16	0.7925	0.7051	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-2I (bg)	No n/a	n/a	NP	16	0.5056	0.2716	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-30I (bg)	No n/a	n/a	NP	16	0.7335	0.6871	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-3D (bg)	No n/a	n/a	NP	16	3.386	0.6987	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWA-3I (bg)	No n/a	n/a	NP	16	1.509	0.8338	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	Yes 6.68	6/8/2016	NP	16	1.223	1.549	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	No n/a	n/a	NP	16	0.7387	0.2913	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	No n/a	n/a	NP	16	3.596	1.038	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	No n/a	n/a	NP	16	0.8785	0.3209	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	No n/a	n/a	NP	16	0.6106	0.348	normal	ShapiroWilk

Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier	Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	No	n/a	n/a	NP	16	0.6791	0.365	normal	ShapiroWilk
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	No	n/a	n/a	NP	16	0.9488	0.384	normal	ShapiroWilk
Fluoride (mg/L)	YGWA-14S (bg)	n/a	n/a	n/a	NP	17	0.2835	0.06791	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-1D (bg)	No	n/a	n/a	NP	17	0.1489	0.117	normal	ShapiroWilk
Fluoride (mg/L)	YGWA-1I (bg)	n/a	n/a	n/a	NP	17	0.2688	0.08845	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-2I (bg)	No	n/a	n/a	NP	17	0.1541	0.1002	normal	ShapiroWilk
Fluoride (mg/L)	YGWA-30I (bg)	n/a	n/a	n/a	NP	17	0.2859	0.05821	unknown	ShapiroWilk
Fluoride (mg/L)	YGWA-3D (bg)	No	n/a	n/a	NP	17	0.5029	0.06789	normal	ShapiroWilk
Fluoride (mg/L)	YGWA-3I (bg)	No	n/a	n/a	NP	17	0.1761	0.08801	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-26I	No	n/a	n/a	NP	17	0.1822	0.1152	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-26S	Yes	0.03,0.44,0.16,0.044	9/20/2016,11/7/2016,5/3/2017,6/13/2018	NP	17	0.2685	0.1021	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-27I	No	n/a	n/a	NP	17	0.2394	0.09945	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-27S	No	n/a	n/a	NP	17	0.2113	0.1111	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-28I	No	n/a	n/a	NP	17	0.1956	0.1074	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-28S	No	n/a	n/a	NP	17	0.2465	0.09239	normal	ShapiroWilk
Fluoride (mg/L)	YGWC-29I	No	n/a	n/a	NP	17	0.1693	0.1149	normal	ShapiroWilk
Lead (mg/L)	YGWA-14S (bg)	n/a	n/a	n/a	NP	12	0.004592	0.001415	unknown	ShapiroWilk
Lead (mg/L)	YGWA-1D (bg)	No	n/a	n/a	NP	12	0.002994	0.002482	normal	ShapiroWilk
Lead (mg/L)	YGWA-1I (bg)	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWA-2I (bg)	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWA-30I (bg)	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWA-3D (bg)	No	n/a	n/a	NP	12	0.003019	0.00245	normal	ShapiroWilk
Lead (mg/L)	YGWA-3I (bg)	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWC-26I	n/a	n/a	n/a	NP	12	0.004588	0.001426	unknown	ShapiroWilk
Lead (mg/L)	YGWC-26S	n/a	n/a	n/a	NP	12	0.004182	0.001911	unknown	ShapiroWilk
Lead (mg/L)	YGWC-27I	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWC-27S	No	n/a	n/a	NP	12	0.003779	0.002209	normal	ShapiroWilk
Lead (mg/L)	YGWC-28I	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lead (mg/L)	YGWC-28S	No	n/a	n/a	NP	12	0.003767	0.002231	normal	ShapiroWilk
Lead (mg/L)	YGWC-29I	n/a	n/a	n/a	NP	12	0.005	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWA-14S (bg)	n/a	n/a	n/a	NP	16	0.03	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWA-1D (bg)	No	n/a	n/a	NP	16	0.01147	0.003797	normal	ShapiroWilk
Lithium (mg/L)	YGWA-1I (bg)	Yes	0.03,0.03,0.03	6/1/2016,9/13/2016,11/4/2016	NP	16	0.007525	0.01115	normal	ShapiroWilk
Lithium (mg/L)	YGWA-2I (bg)	Yes	0.03,0.03	11/4/2016,10/1/2018	NP	16	0.005694	0.00953	normal	ShapiroWilk
Lithium (mg/L)	YGWA-30I (bg)	No	n/a	n/a	NP	16	0.01737	0.01479	normal	ShapiroWilk
Lithium (mg/L)	YGWA-3D (bg)	No	n/a	n/a	NP	16	0.01969	0.001571	normal	ShapiroWilk
Lithium (mg/L)	YGWA-3I (bg)	No	n/a	n/a	NP	16	0.01152	0.001838	normal	ShapiroWilk
Lithium (mg/L)	YGWC-26I	No	n/a	n/a	NP	16	0.006738	0.000438	normal	ShapiroWilk
Lithium (mg/L)	YGWC-26S	n/a	n/a	n/a	NP	16	0.03	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWC-27I	No	n/a	n/a	NP	16	0.009631	0.001871	normal	ShapiroWilk
Lithium (mg/L)	YGWC-27S	n/a	n/a	n/a	NP	16	0.03	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWC-28I	No	n/a	n/a	NP	16	0.006881	0.0003449	normal	ShapiroWilk
Lithium (mg/L)	YGWC-28S	n/a	n/a	n/a	NP	16	0.03	0	unknown	ShapiroWilk
Lithium (mg/L)	YGWC-29I	No	n/a	n/a	NP	16	0.006056	0.0008839	normal	ShapiroWilk
Mercury (mg/L)	YGWA-14S (bg)	n/a	n/a	n/a	NP	13	0.0004662	0.0001218	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-1D (bg)	n/a	n/a	n/a	NP	13	0.0004301	0.0001707	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-1I (bg)	n/a	n/a	n/a	NP	13	0.0004657	0.0001237	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-2I (bg)	n/a	n/a	n/a	NP	13	0.0005	0	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-30I (bg)	n/a	n/a	n/a	NP	13	0.0004346	0.0001596	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-3D (bg)	n/a	n/a	n/a	NP	13	0.0004352	0.0001583	unknown	ShapiroWilk
Mercury (mg/L)	YGWA-3I (bg)	n/a	n/a	n/a	NP	13	0.0004342	0.0001606	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-26I	n/a	n/a	n/a	NP	13	0.0004309	0.0001686	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-26S	n/a	n/a	n/a	NP	13	0.0004319	0.0001662	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-27I	n/a	n/a	n/a	NP	13	0.0004307	0.0001692	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-27S	n/a	n/a	n/a	NP	13	0.00043	0.0001709	unknown	ShapiroWilk

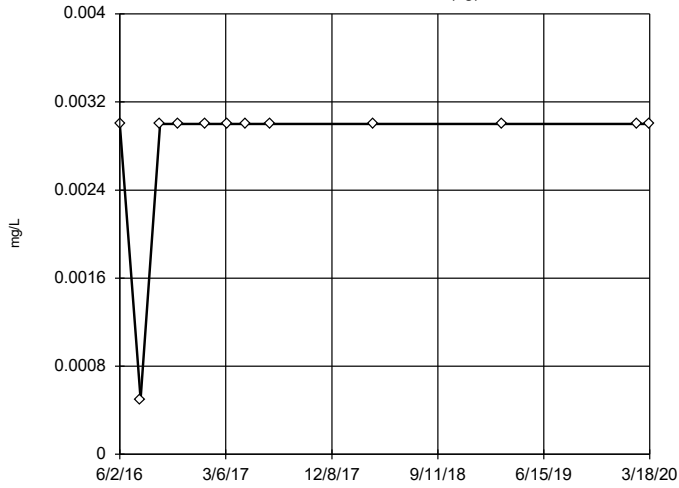
Appendix IV Tukey's Outlier Analysis - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:28 PM

Constituent	Well	Outlier Value(s)	Date(s)	Method	N	Mean	Std. Dev.	Distribution	Normality Test
Mercury (mg/L)	YGWC-28I	n/a n/a	n/a	NP	13	0.0004652	0.0001254	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-28S	n/a n/a	n/a	NP	13	0.0004655	0.0001243	unknown	ShapiroWilk
Mercury (mg/L)	YGWC-29I	n/a n/a	n/a	NP	13	0.0004297	0.0001716	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-1D (bg)	No n/a	n/a	NP	16	0.009763	0.00193	normal	ShapiroWilk
Molybdenum (mg/L)	YGWA-1I (bg)	No n/a	n/a	NP	16	0.008581	0.001688	normal	ShapiroWilk
Molybdenum (mg/L)	YGWA-2I (bg)	No n/a	n/a	NP	16	0.004694	0.001233	normal	ShapiroWilk
Molybdenum (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWA-3D (bg)	No n/a	n/a	NP	16	0.011103	0.001161	normal	ShapiroWilk
Molybdenum (mg/L)	YGWA-3I (bg)	No n/a	n/a	NP	16	0.004338	0.002047	normal	ShapiroWilk
Molybdenum (mg/L)	YGWC-26I	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWC-26S	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWC-27I	No n/a	n/a	NP	16	0.006756	0.004328	normal	ShapiroWilk
Molybdenum (mg/L)	YGWC-27S	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWC-28I	No n/a	n/a	NP	16	0.006206	0.004443	normal	ShapiroWilk
Molybdenum (mg/L)	YGWC-28S	n/a n/a	n/a	NP	16	0.008831	0.003194	unknown	ShapiroWilk
Molybdenum (mg/L)	YGWC-29I	n/a n/a	n/a	NP	16	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-14S (bg)	No n/a	n/a	NP	14	0.006943	0.00426	normal	ShapiroWilk
Selenium (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-26I	Yes 0.01,0.01	5/8/2017,3/30/2018	NP	14	0.003071	0.002941	normal	ShapiroWilk
Selenium (mg/L)	YGWC-26S	No n/a	n/a	NP	14	0.00745	0.004192	normal	ShapiroWilk
Selenium (mg/L)	YGWC-27I	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-27S	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-28I	n/a n/a	n/a	NP	14	0.009371	0.002352	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	14	0.009357	0.002405	unknown	ShapiroWilk
Selenium (mg/L)	YGWC-29I	n/a n/a	n/a	NP	14	0.01	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-14S (bg)	n/a n/a	n/a	NP	12	0.0009241	0.000263	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-1D (bg)	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-1I (bg)	n/a n/a	n/a	NP	12	0.0009213	0.0002728	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-2I (bg)	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-30I (bg)	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-3D (bg)	n/a n/a	n/a	NP	12	0.000925	0.0002598	unknown	ShapiroWilk
Thallium (mg/L)	YGWA-3I (bg)	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-26I	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-26S	n/a n/a	n/a	NP	12	0.0008427	0.0003675	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-27I	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-27S	No n/a	n/a	NP	12	0.0005525	0.0004674	normal	ShapiroWilk
Thallium (mg/L)	YGWC-28I	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-28S	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk
Thallium (mg/L)	YGWC-29I	n/a n/a	n/a	NP	12	0.001	0	unknown	ShapiroWilk

Tukey's Outlier Screening

YGWA-14S (bg)



n = 12

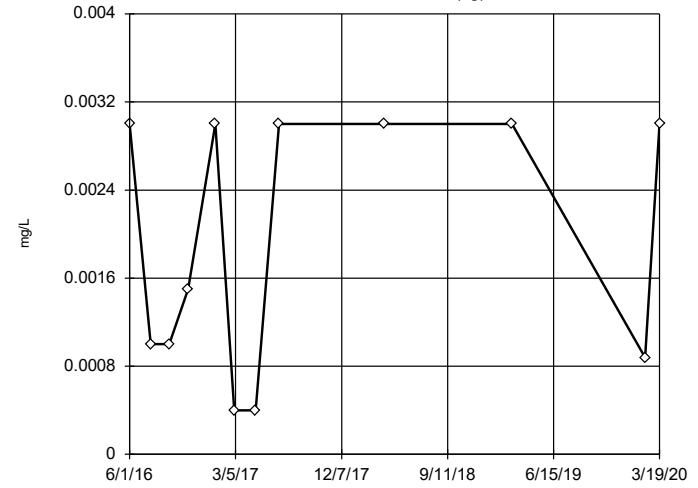
No outliers found. Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-1D (bg)



n = 12

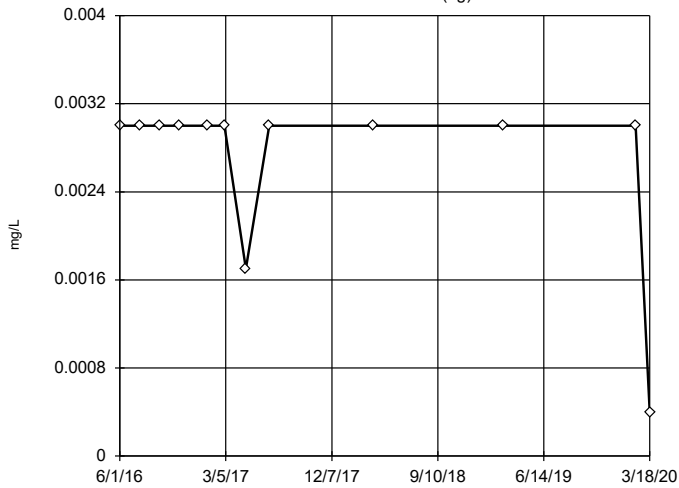
No outliers found. Tukey's method selected by user.

High cutoff = 0.00918, low cutoff = -0.00524, based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-11 (bg)



n = 12

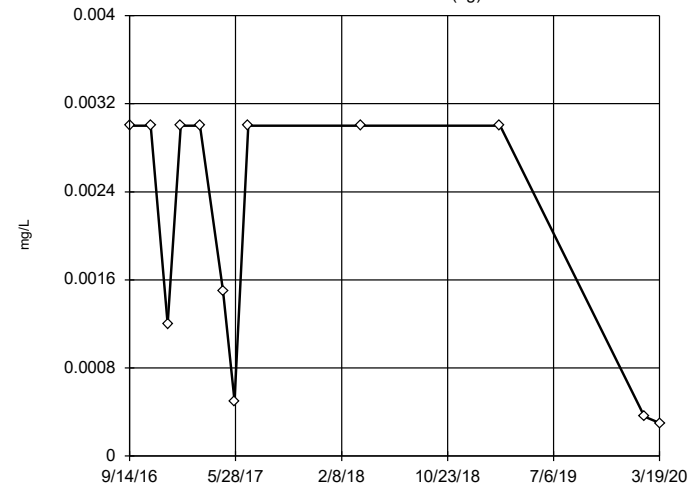
No outliers found. Tukey's method selected by user.

The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-2I (bg)



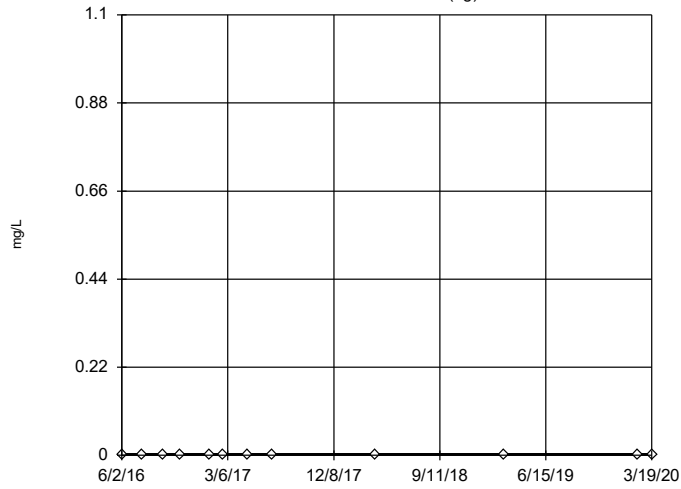
n = 12

No outliers found. Tukey's method selected by user.

High cutoff = 0.00945, low cutoff = -0.0056, based on IQR multiplier of 3.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

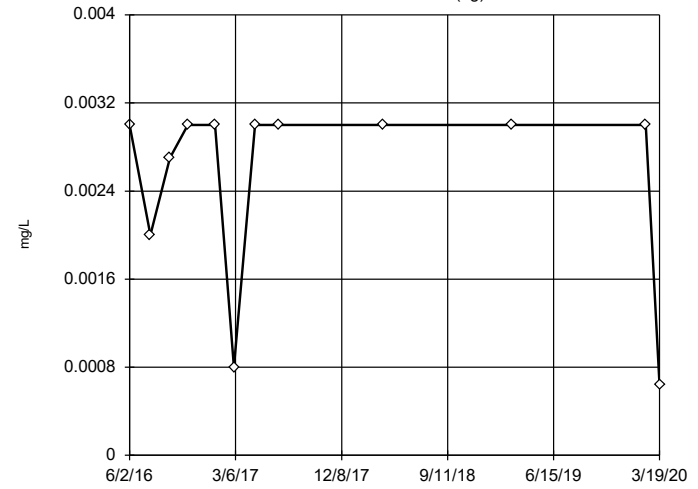
Tukey's Outlier Screening YGWA-30I (bg)



n = 12
 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 5/12/2020 3:24 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

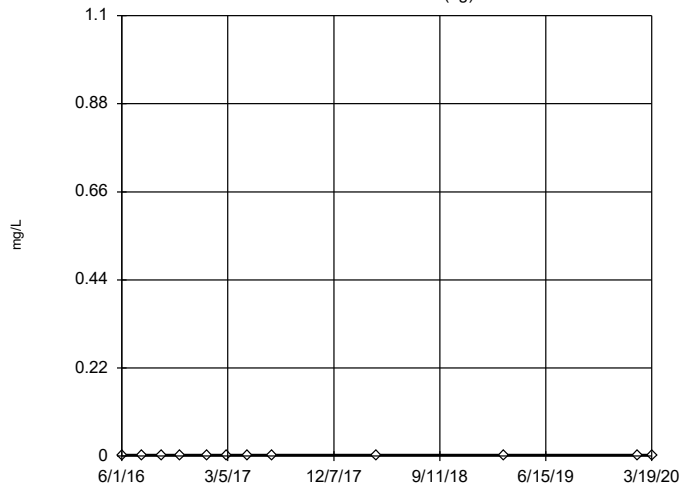
Tukey's Outlier Screening YGWA-3D (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00495,
 low cutoff = 0.0004, based
 on IQR multiplier of 3.

Constituent: Antimony Analysis Run 5/12/2020 3:24 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

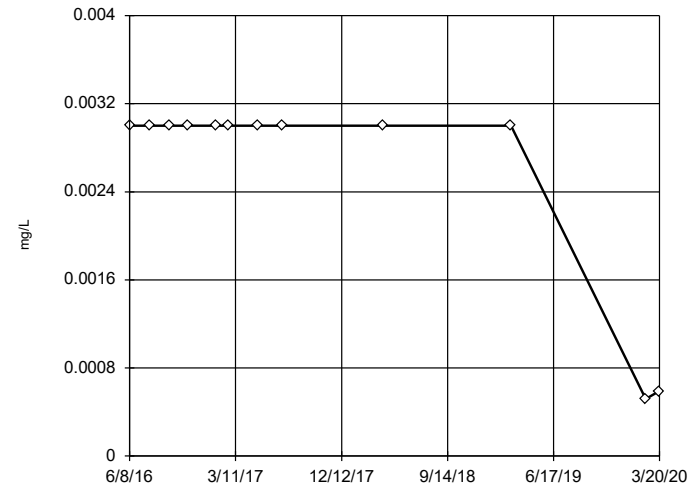
Tukey's Outlier Screening YGWA-3I (bg)



n = 12
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

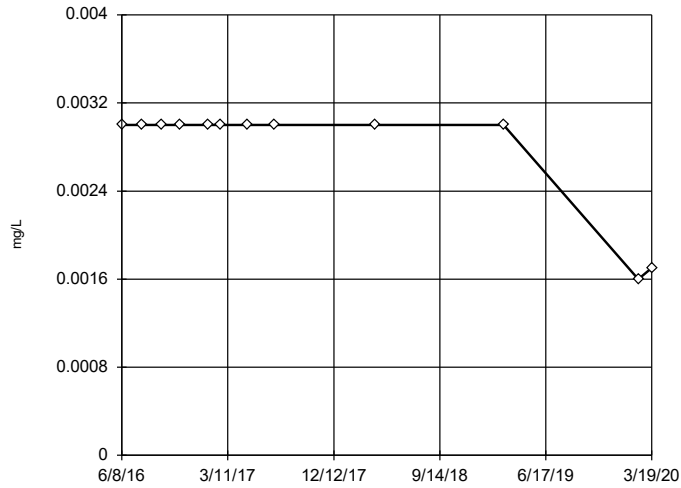
Tukey's Outlier Screening YGWC-26I



n = 12
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

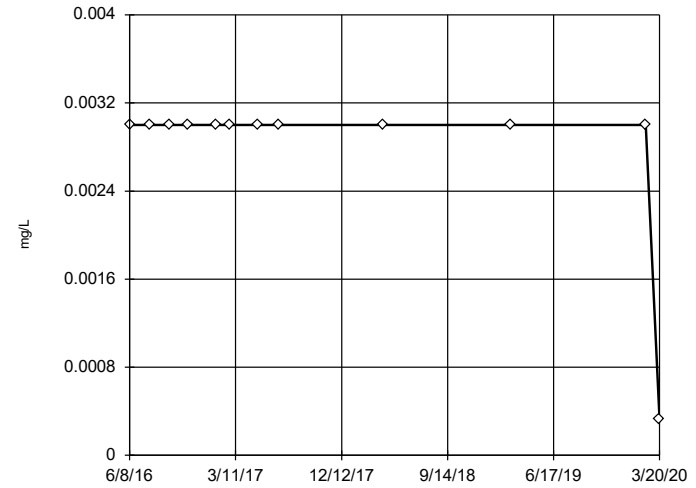
Tukey's Outlier Screening YGWC-26S



n = 12
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

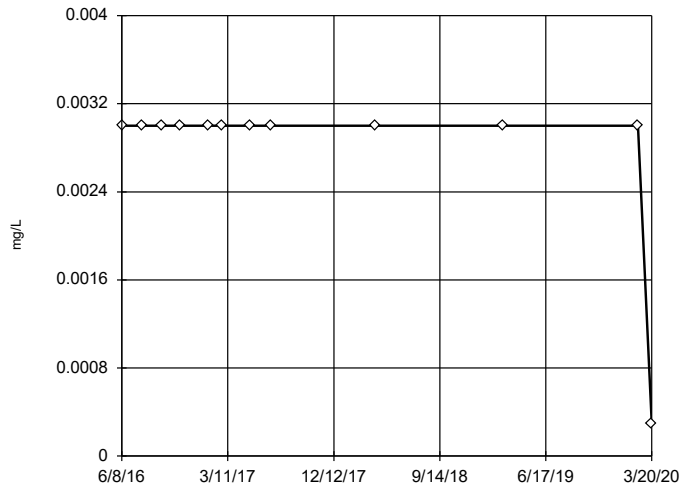
Tukey's Outlier Screening YGWC-27I



n = 12
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

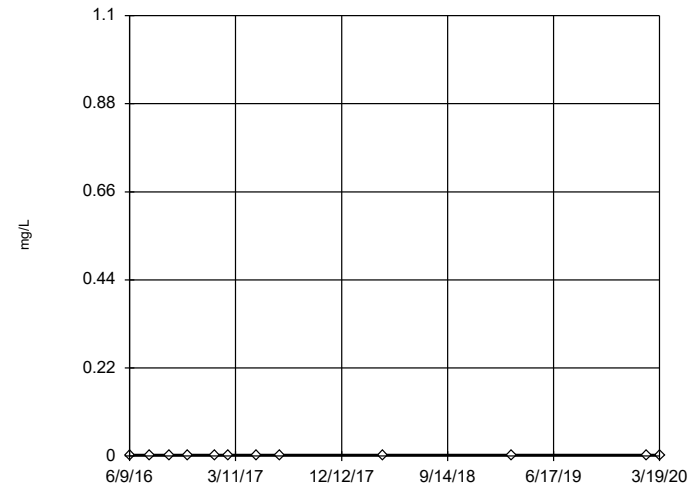
Tukey's Outlier Screening YGWC-27S



n = 12
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

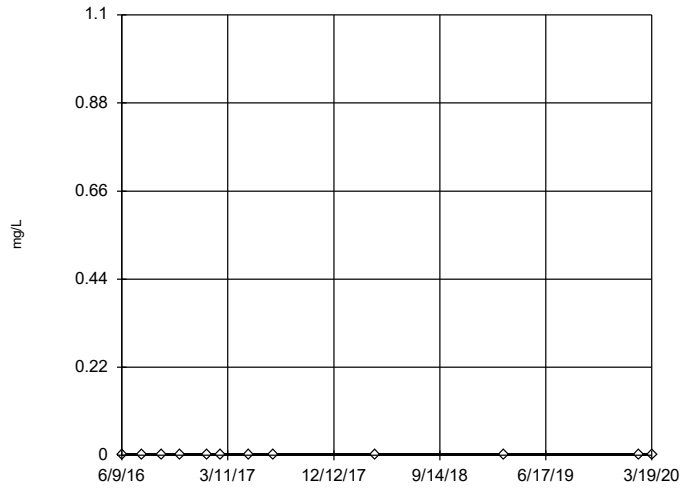
Tukey's Outlier Screening YGWC-28I



n = 12
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

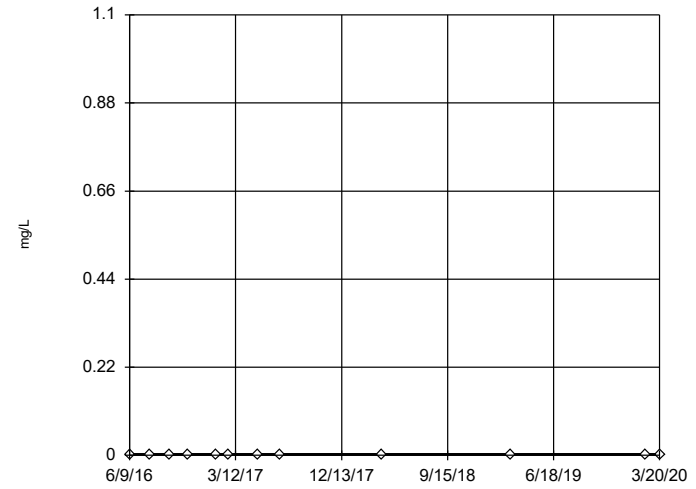
Tukey's Outlier Screening
YGWC-28S



n = 12
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

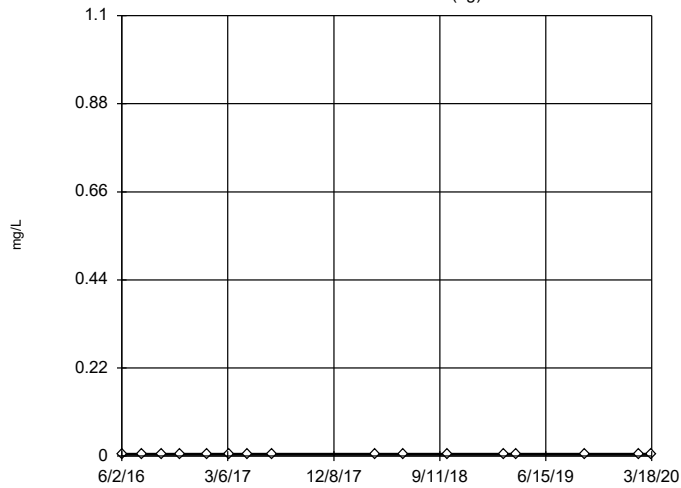
Tukey's Outlier Screening
YGWC-29I



n = 12
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

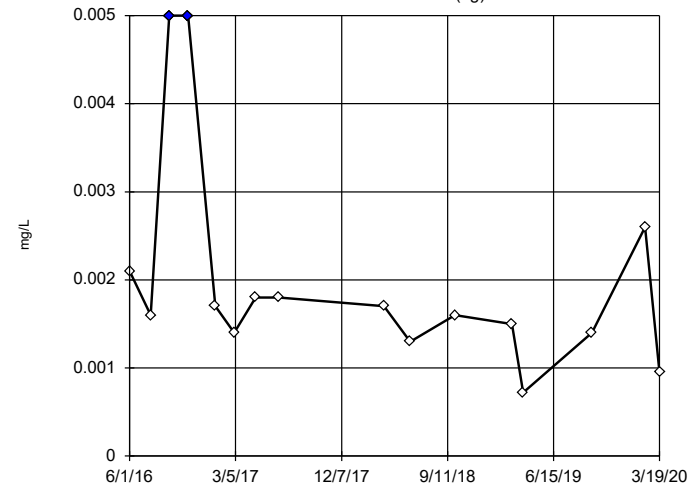
Tukey's Outlier Screening
YGWA-14S (bg)



n = 16
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening
YGWA-1D (bg)

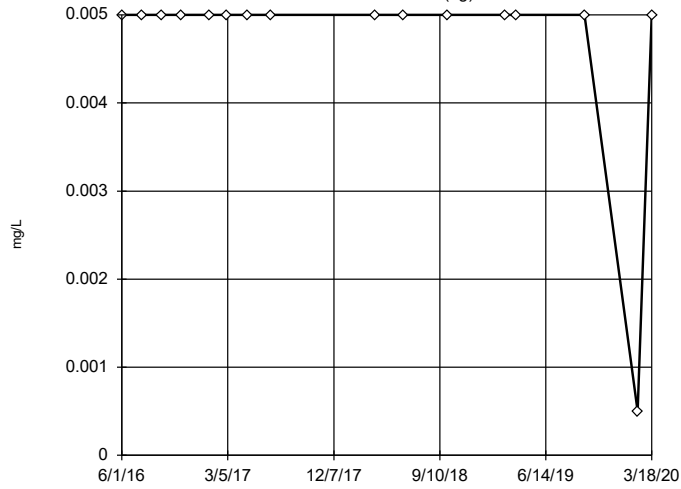


n = 16
Outliers are drawn as solid. Tukey's method selected by user.
High cutoff = 0.0036, low cutoff = -0.0025, based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-11 (bg)

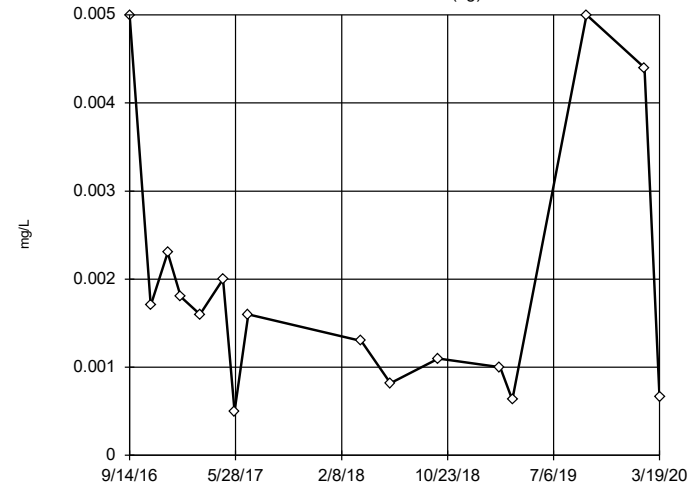


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-21 (bg)

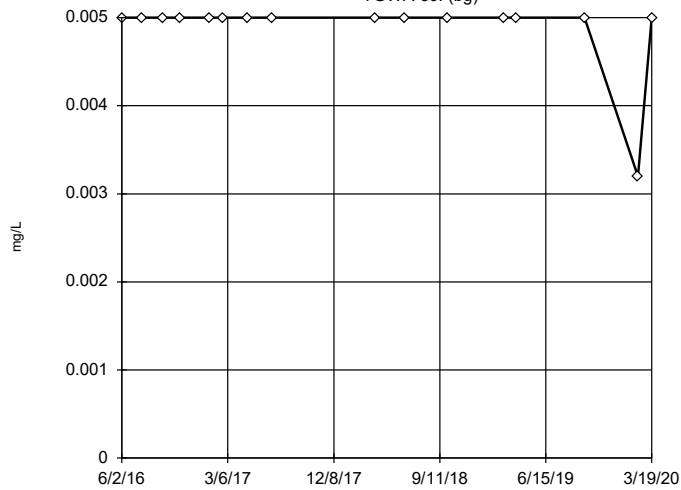


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00587,
 low cutoff = -0.00281,
 based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-30I (bg)

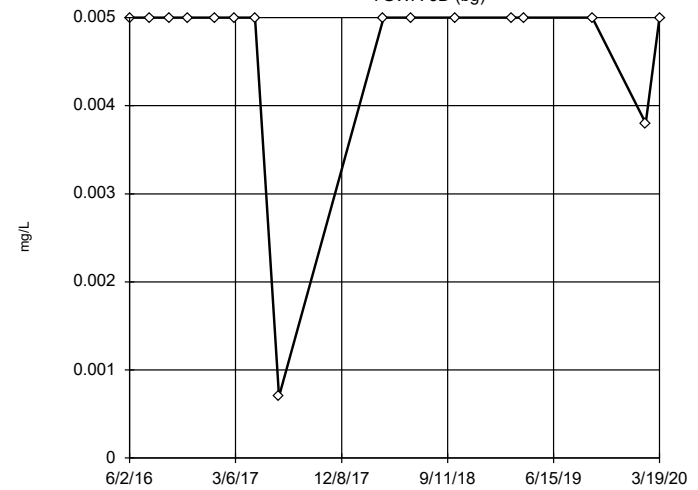


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

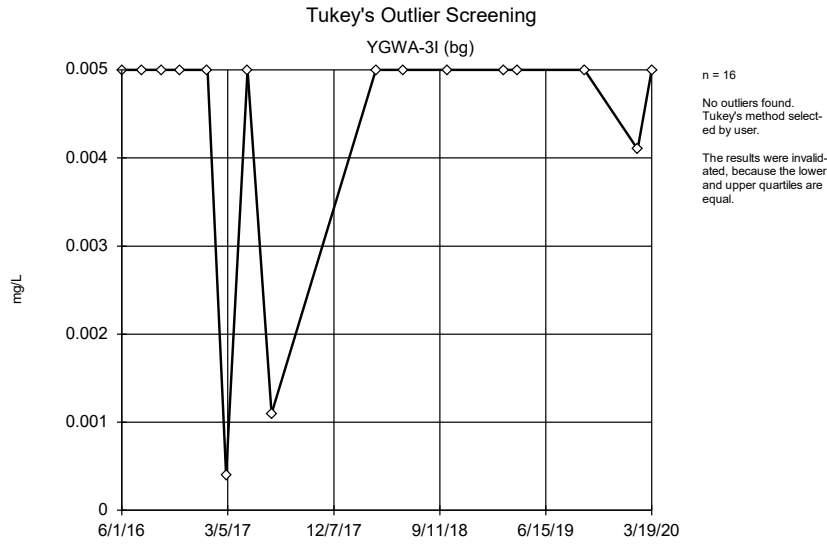
Tukey's Outlier Screening

YGWA-3D (bg)

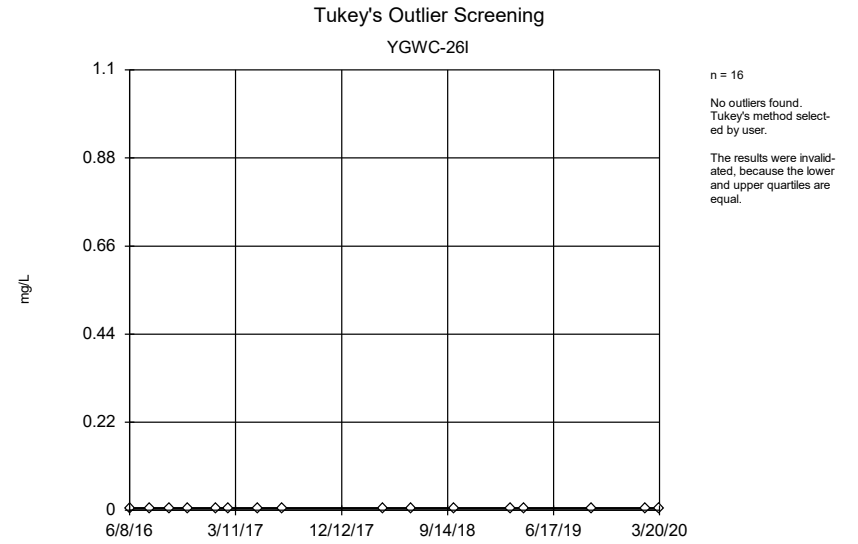


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

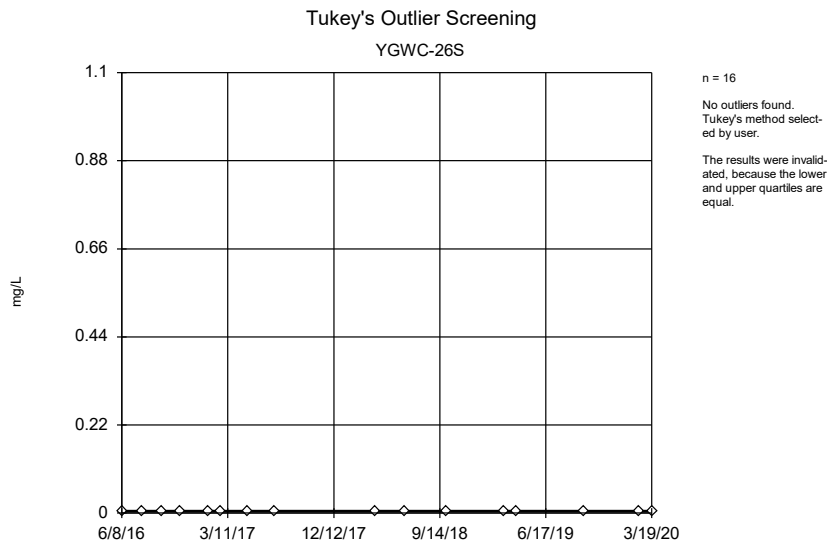
Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



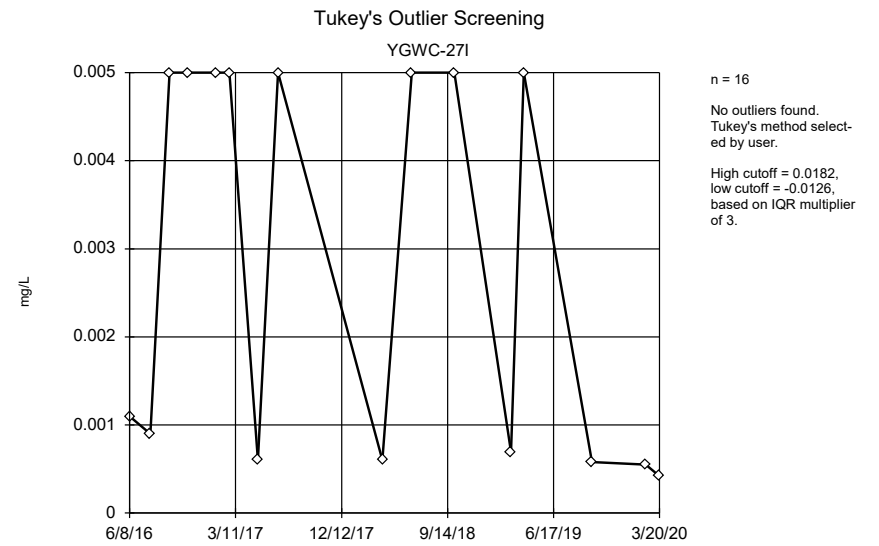
Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

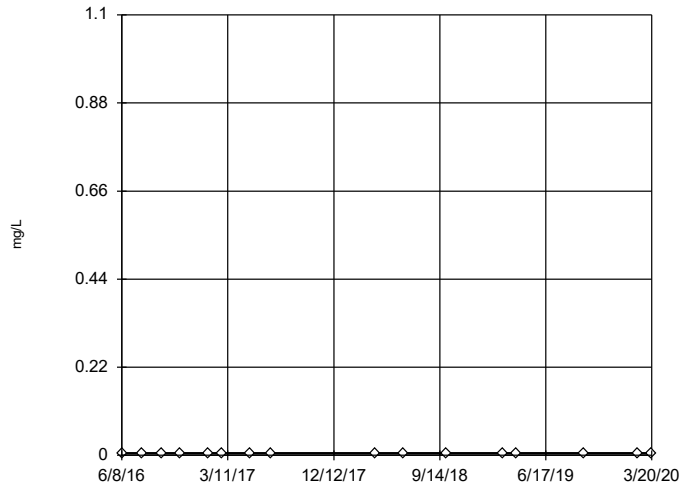


Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

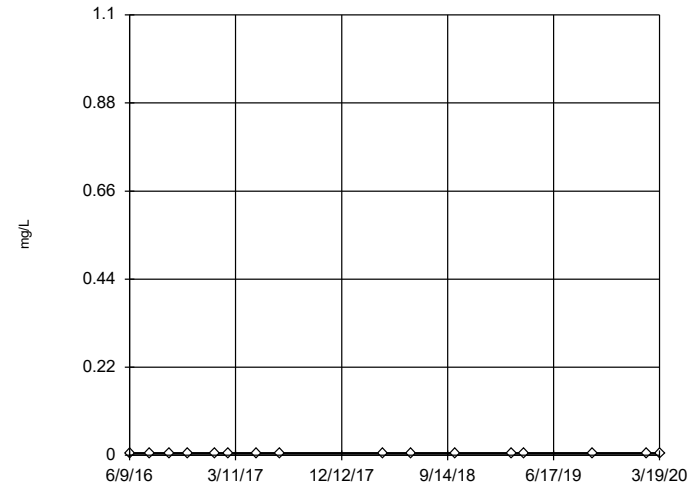
Tukey's Outlier Screening YGWC-27S



n = 16
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

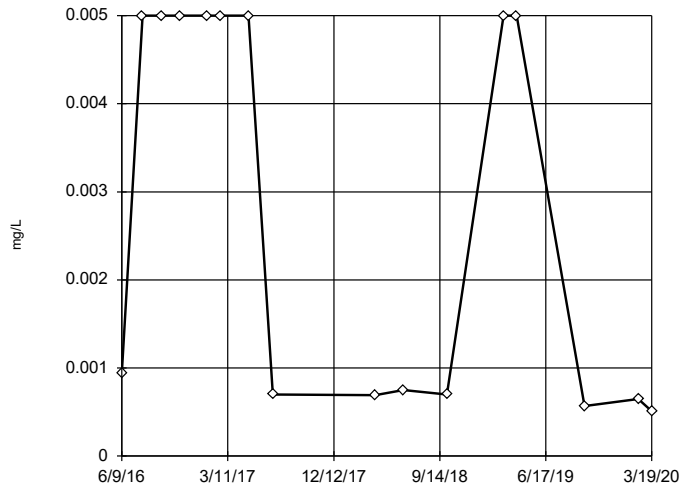
Tukey's Outlier Screening YGWC-28I



n = 16
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

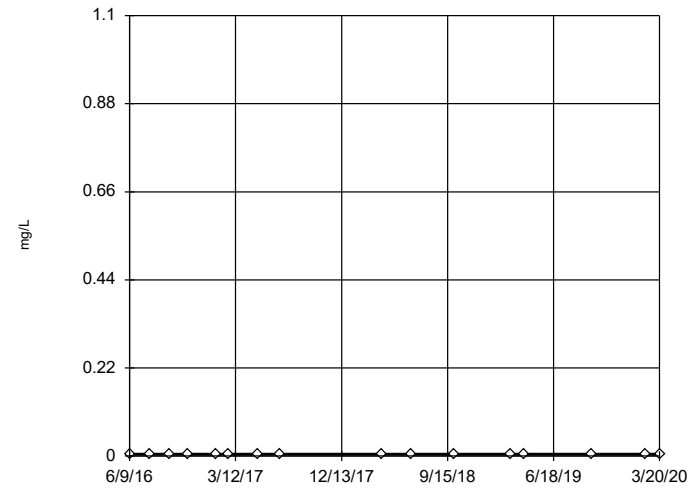
Tukey's Outlier Screening YGWC-28S



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01791,
 low cutoff = -0.01222,
 based on IQR multiplier of 3.

Constituent: Arsenic Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

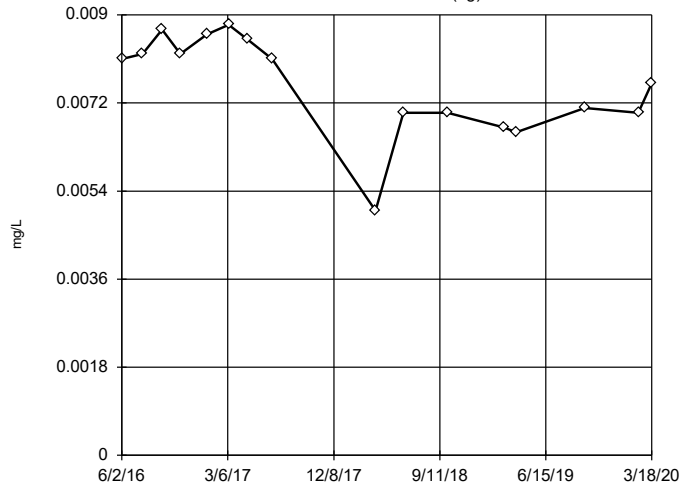
Tukey's Outlier Screening YGWC-29I



n = 16
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

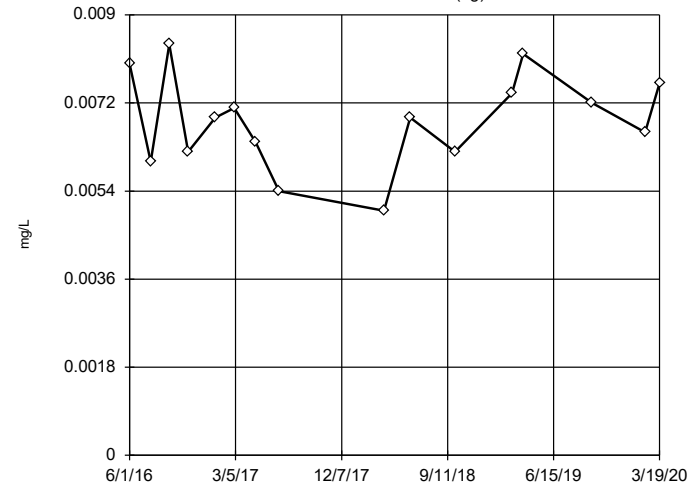
Tukey's Outlier Screening
YGWA-14S (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0124,
low cutoff = 0.00295,
based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

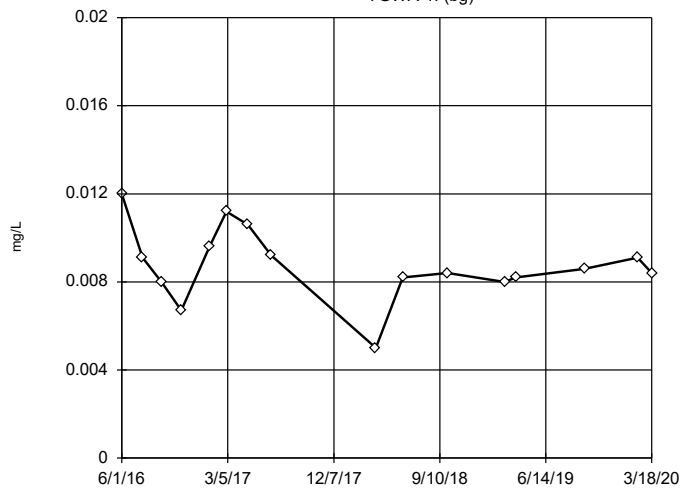
Tukey's Outlier Screening
YGWA-1D (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0114,
low cutoff = 0.0023, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

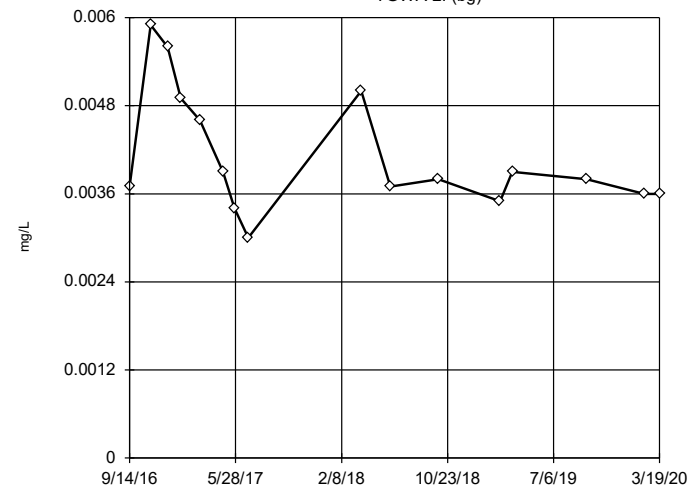
Tukey's Outlier Screening
YGWA-11 (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0133,
low cutoff = 0.0042, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening
YGWA-2I (bg)

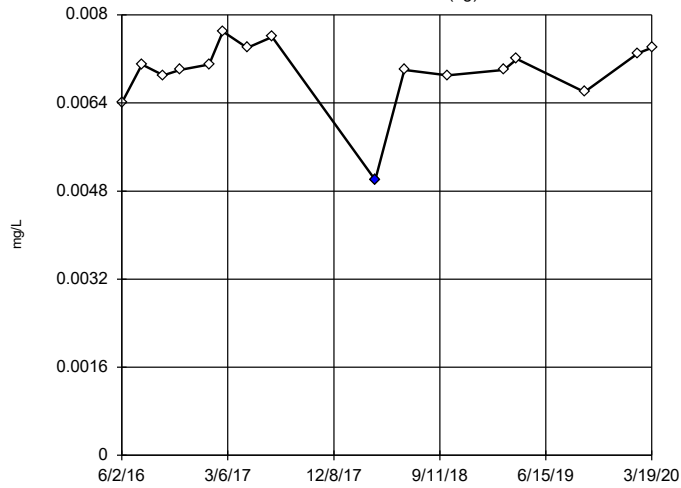


n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0082,
low cutoff = 0.00015, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-30I (bg)

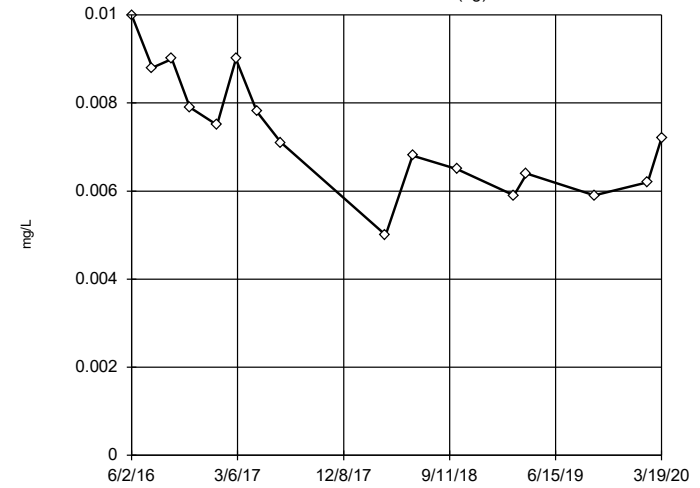


n = 16
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.0087,
 low cutoff = 0.00555,
 based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3D (bg)

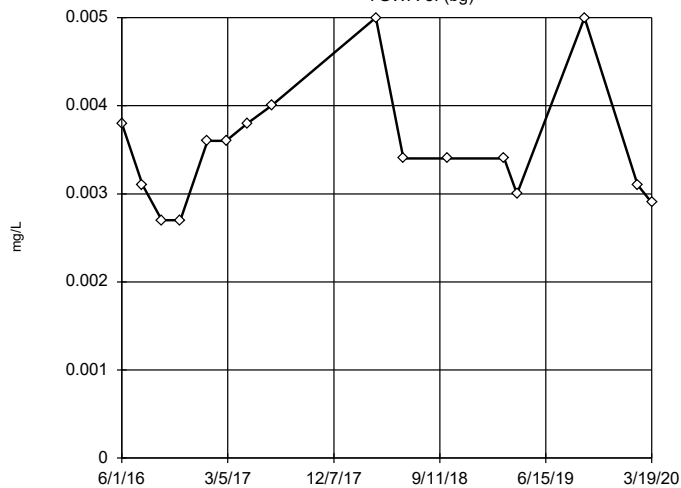


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0145,
 low cutoff = 0.00015,
 based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3I (bg)

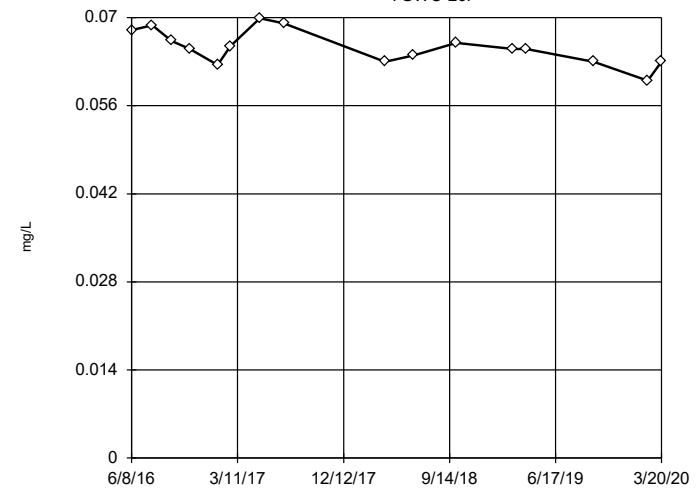


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.00605,
 low cutoff = 0.0008, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

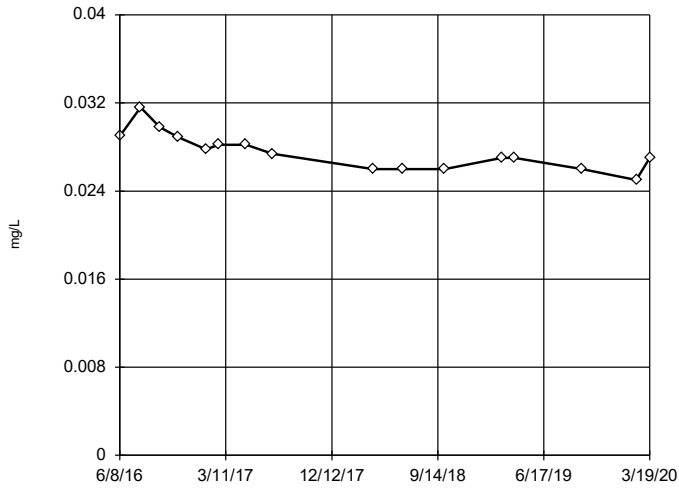
YGWC-26I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0796,
 low cutoff = 0.05055,
 based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

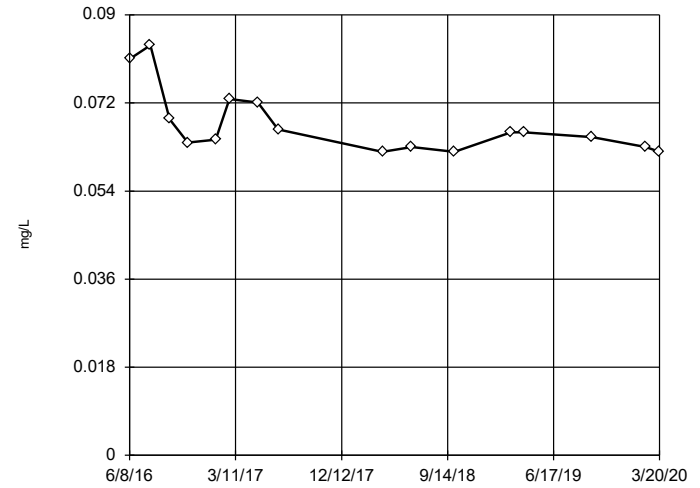
Tukey's Outlier Screening YGWC-26S



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0362,
 low cutoff = 0.01835,
 based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

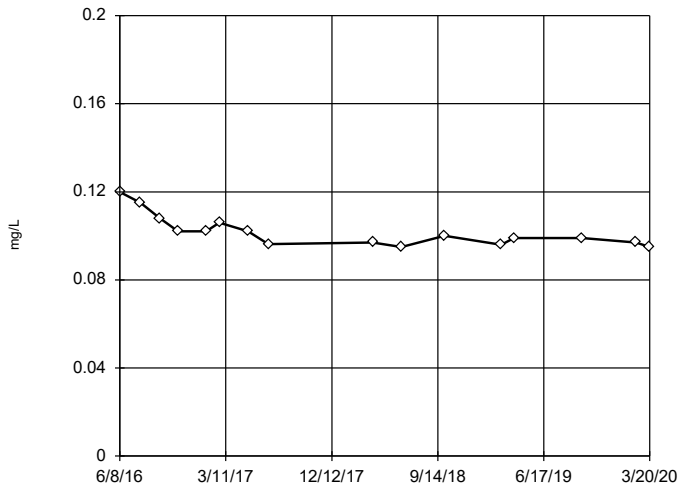
Tukey's Outlier Screening YGWC-27I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0926,
 low cutoff = 0.0408, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

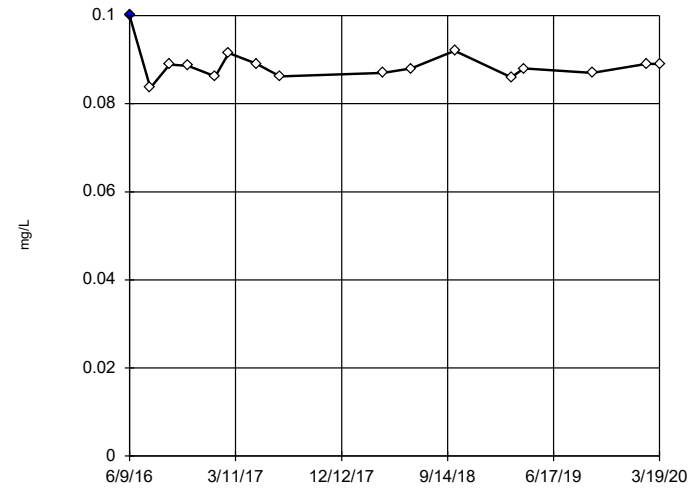
Tukey's Outlier Screening YGWC-27S



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.1261,
 low cutoff = 0.0746, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

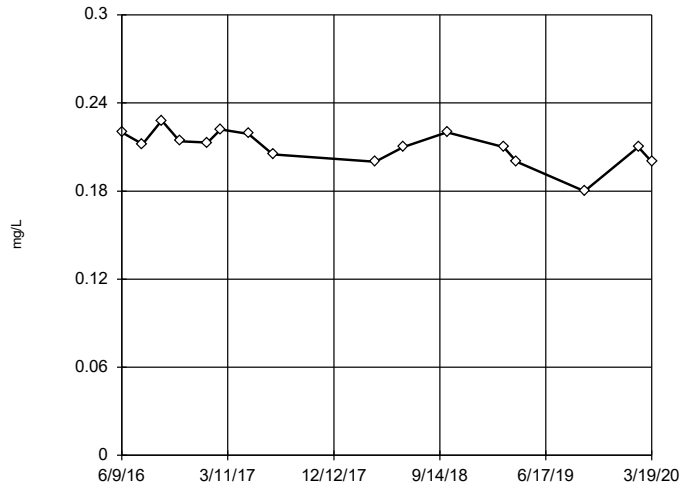
Tukey's Outlier Screening YGWC-28I



n = 16
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.0964,
 low cutoff = 0.07925, based on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

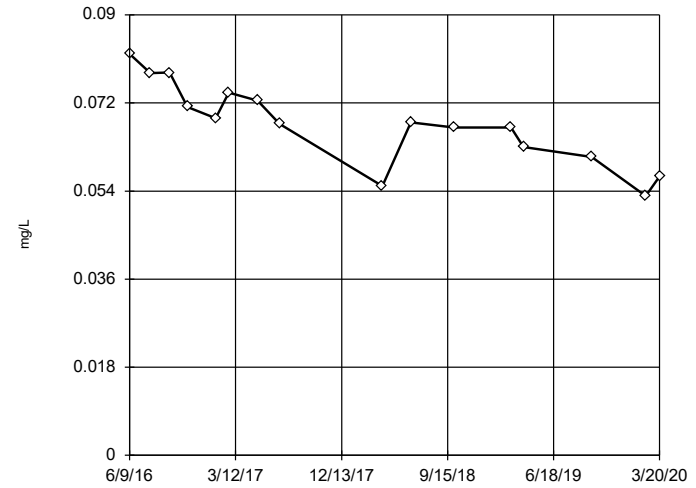
Tukey's Outlier Screening
YGWC-28S



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.2705,
low cutoff = 0.1515, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

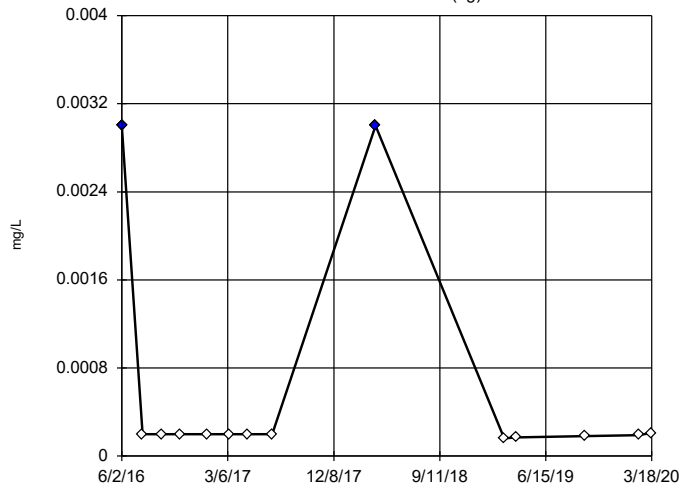
Tukey's Outlier Screening
YGWC-29I



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.1072,
low cutoff = 0.0281, based
on IQR multiplier of 3.

Constituent: Barium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

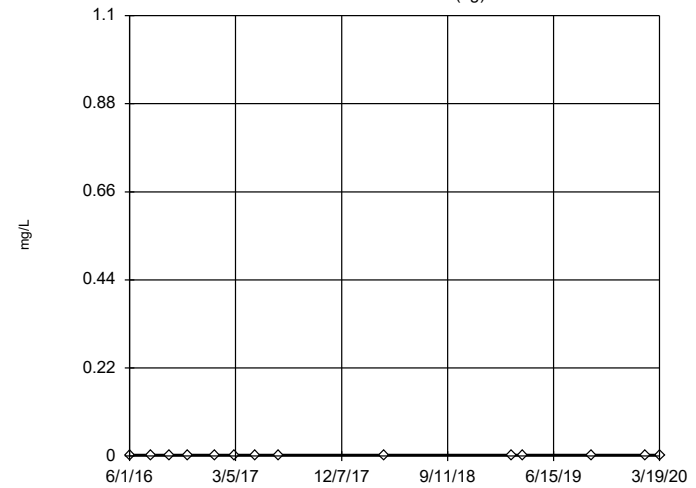
Tukey's Outlier Screening
YGWA-14S (bg)



n = 14
Outliers are drawn as
solid.
Tukey's method selected
by user.
High cutoff = 0.000265,
low cutoff = 0.000125,
based on IQR multiplier
of 3.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

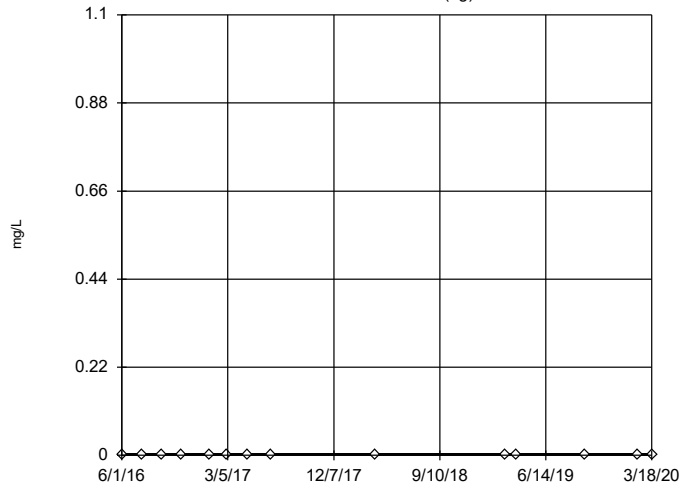
Tukey's Outlier Screening
YGWA-1D (bg)



n = 14
No outliers found.
Tukey's method selected
by user.
The results were invalid-
ated, because the lower
and upper quartiles are
equal.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

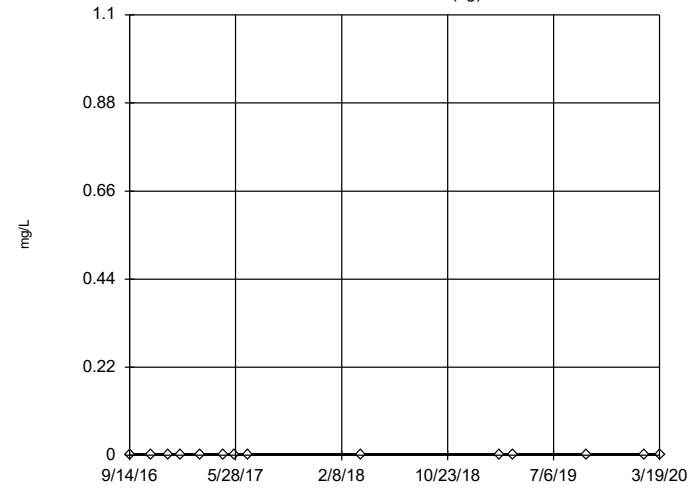
Tukey's Outlier Screening YGWA-11 (bg)



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

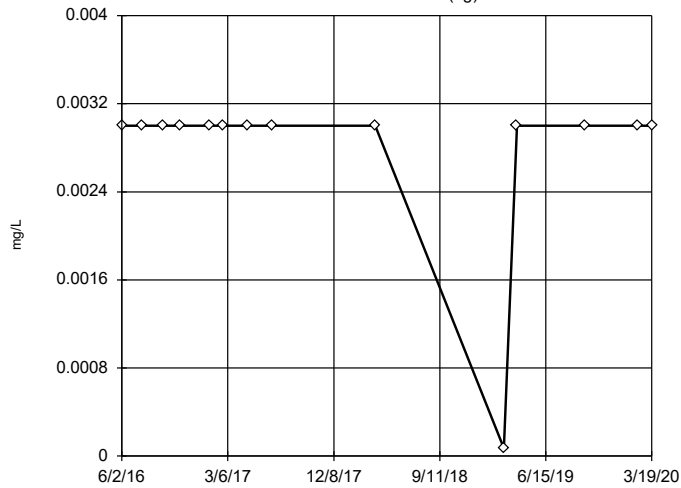
Tukey's Outlier Screening YGWA-21 (bg)



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

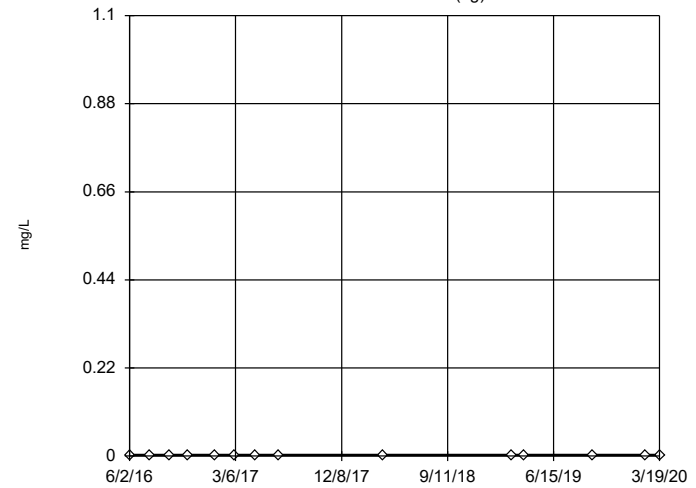
Tukey's Outlier Screening YGWA-30I (bg)



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

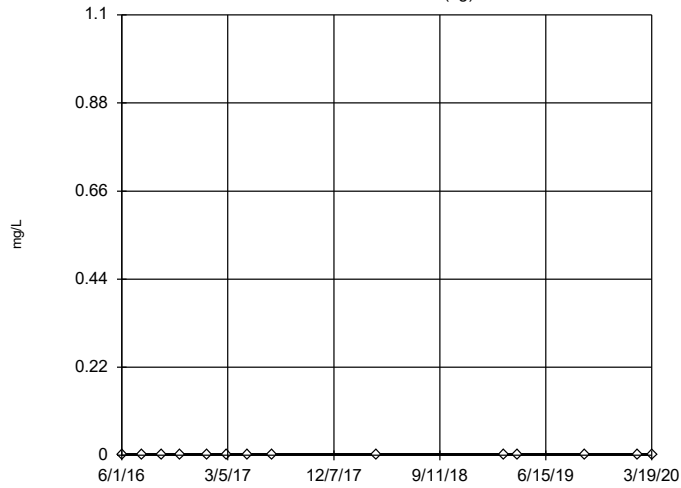
Tukey's Outlier Screening YGWA-3D (bg)



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

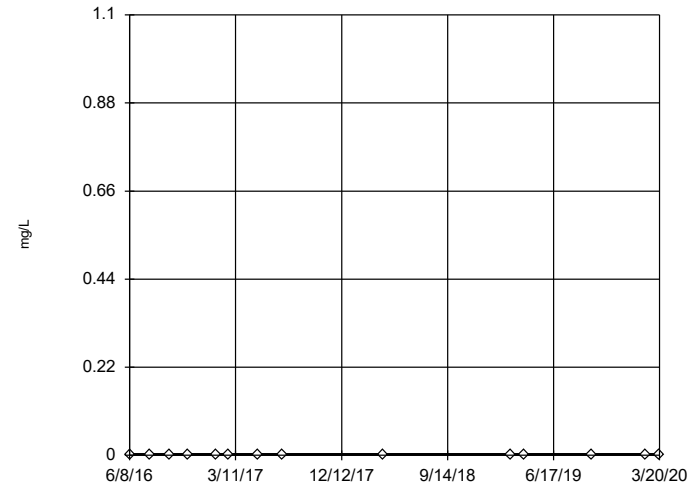
Tukey's Outlier Screening
YGWA-3I (bg)



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

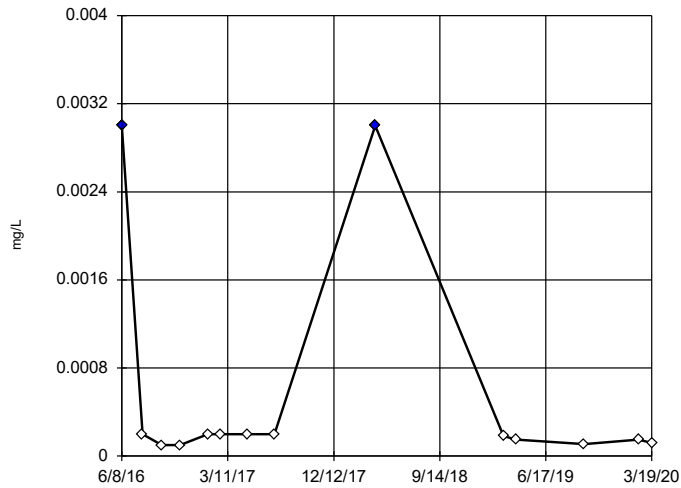
Tukey's Outlier Screening
YGWC-26I



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

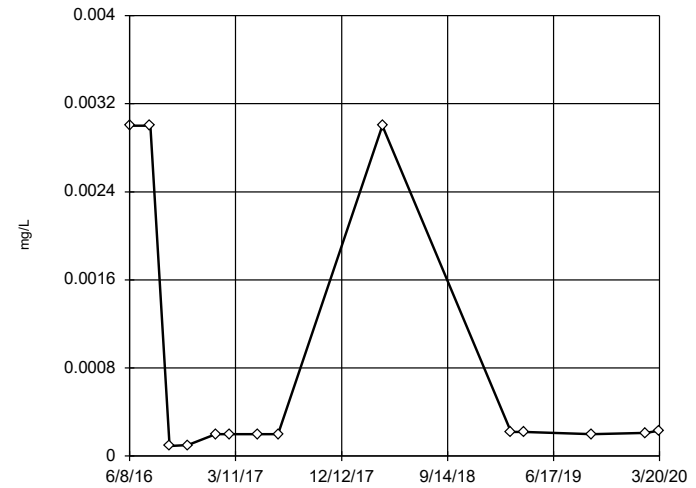
Tukey's Outlier Screening
YGWC-26S



n = 14
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.000455,
low cutoff = -0.00014,
based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

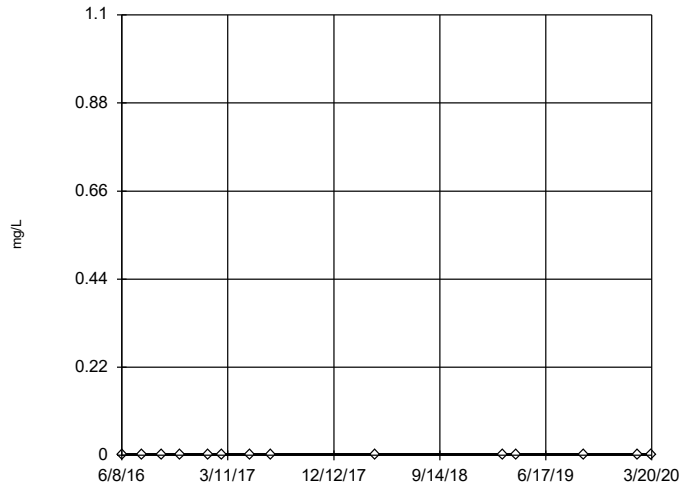
Tukey's Outlier Screening
YGWC-27I



n = 14
No outliers found.
Tukey's method selected by user.
High cutoff = 0.00586,
low cutoff = -0.004045,
based on IQR multiplier of 3.

Constituent: Beryllium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

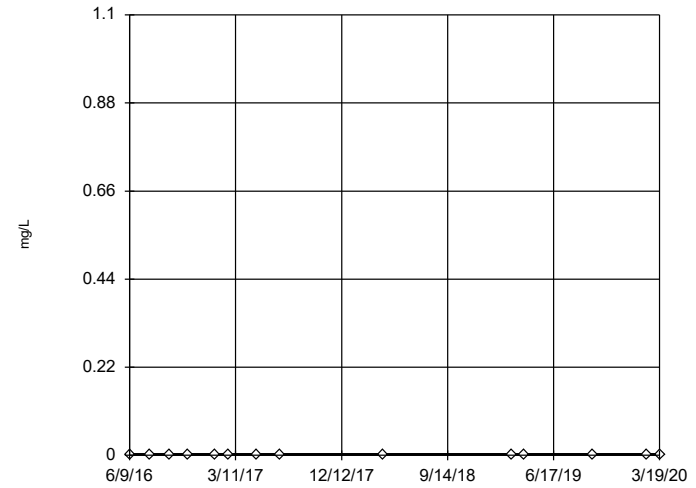
Tukey's Outlier Screening YGWC-27S



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

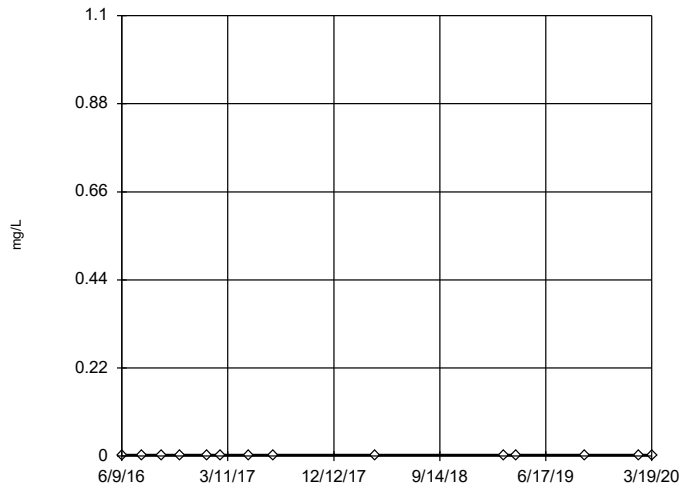
Tukey's Outlier Screening YGWC-28I



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

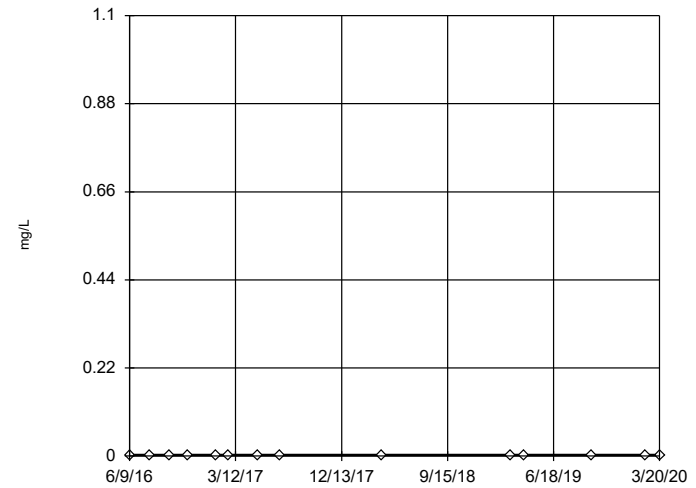
Tukey's Outlier Screening YGWC-28S



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

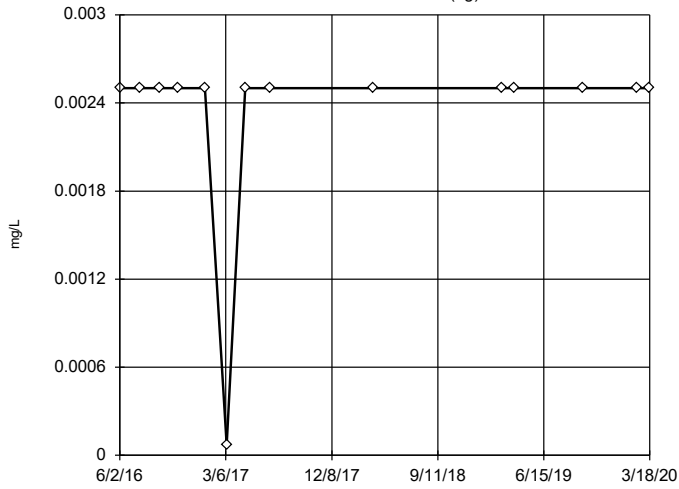
Tukey's Outlier Screening YGWC-29I



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

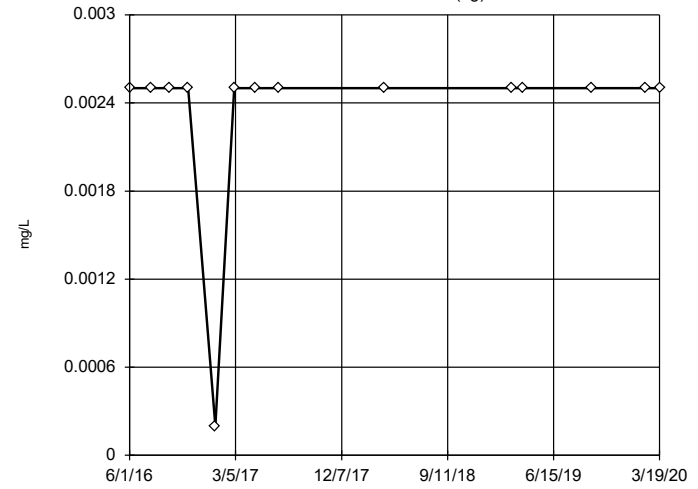
Tukey's Outlier Screening
YGWA-14S (bg)



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

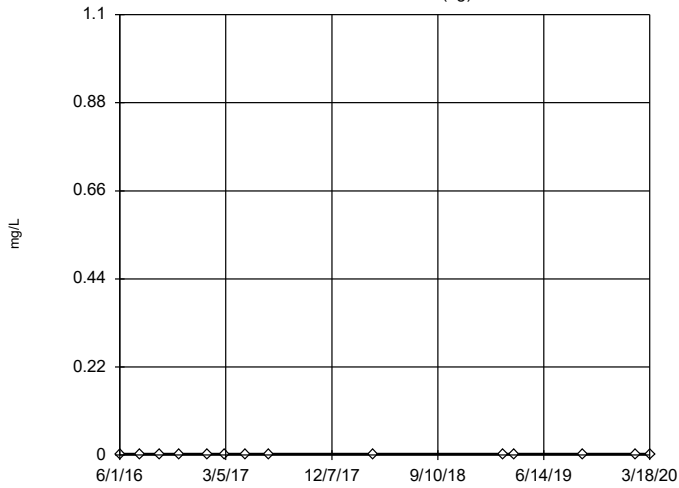
Tukey's Outlier Screening
YGWA-1D (bg)



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

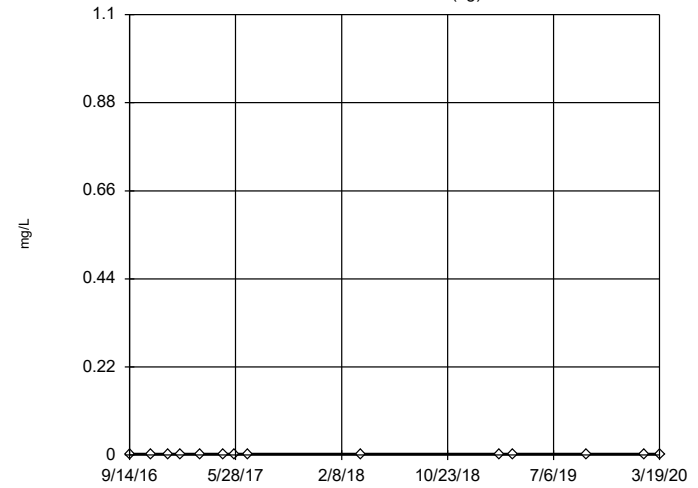
Tukey's Outlier Screening
YGWA-11 (bg)



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

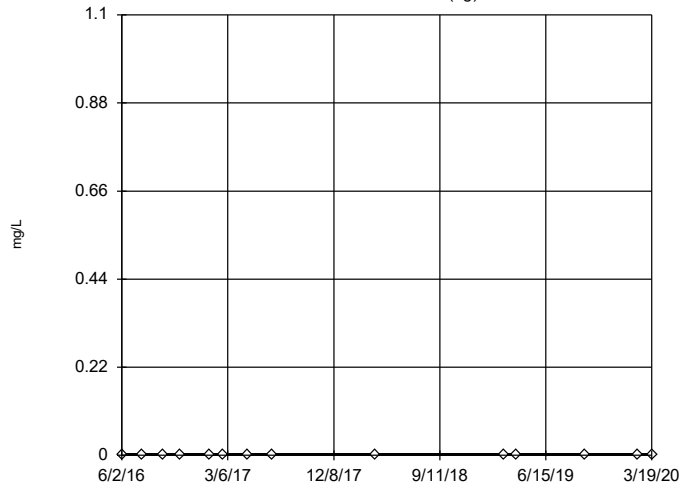
Tukey's Outlier Screening
YGWA-2I (bg)



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

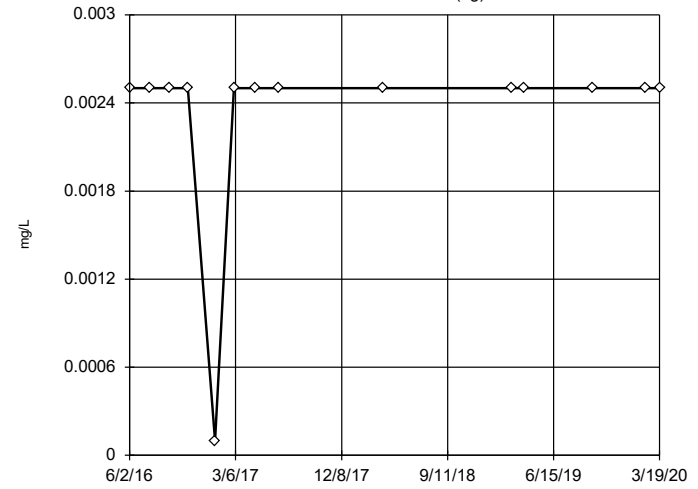
Tukey's Outlier Screening YGWA-30I (bg)



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

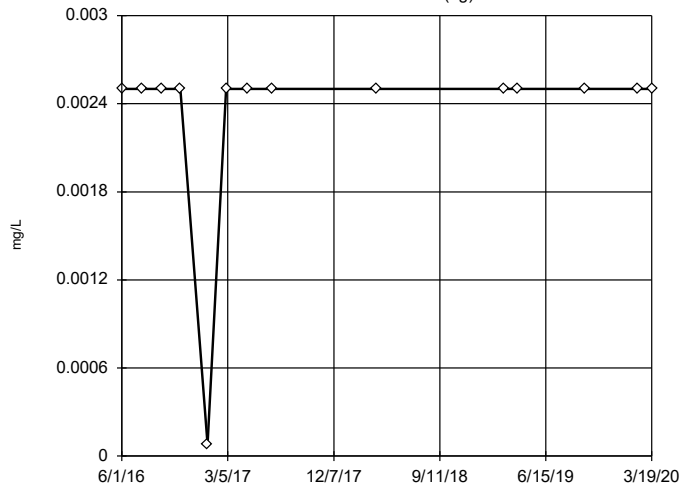
Tukey's Outlier Screening YGWA-3D (bg)



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

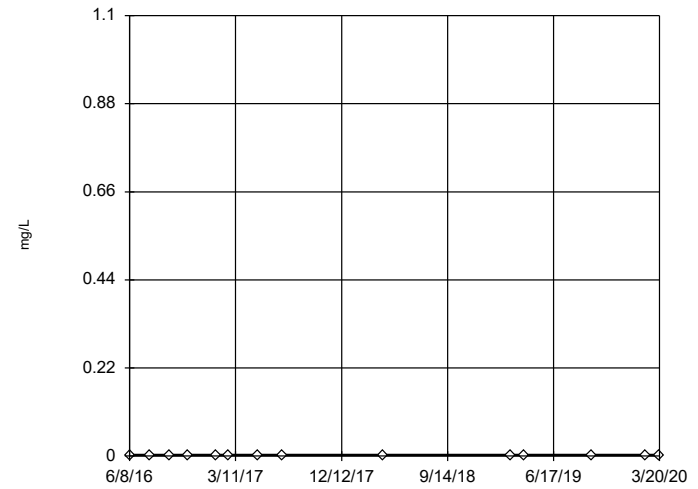
Tukey's Outlier Screening YGWA-3I (bg)



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

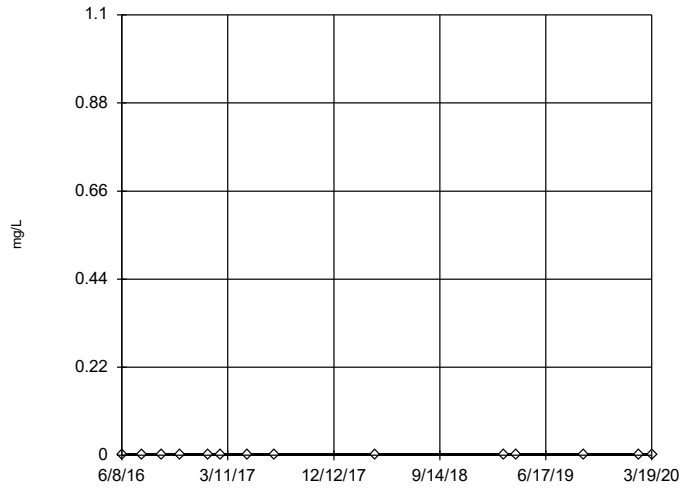
Tukey's Outlier Screening YGWC-26I



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

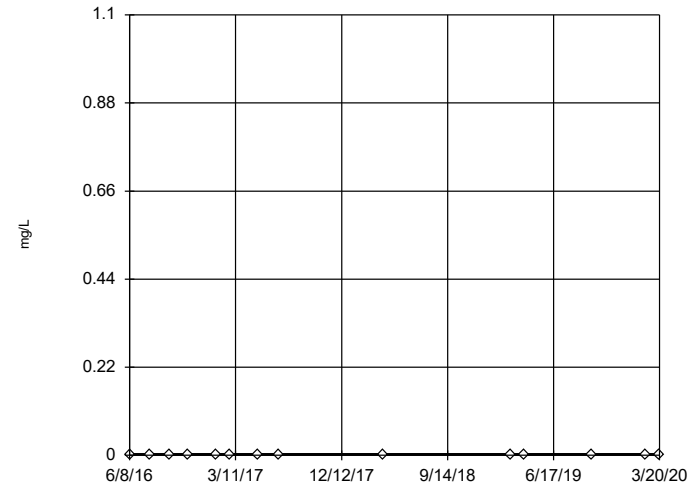
Tukey's Outlier Screening YGWC-26S



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

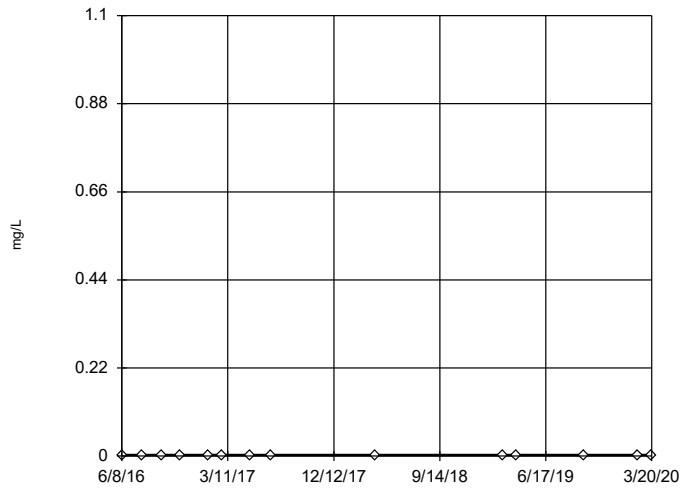
Tukey's Outlier Screening YGWC-27I



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

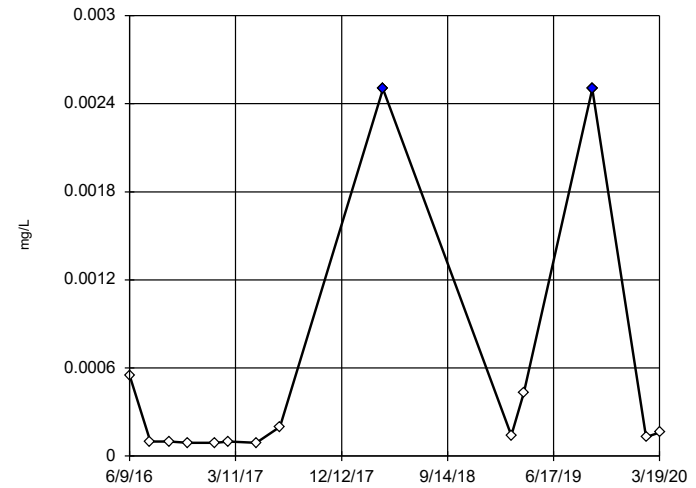
Tukey's Outlier Screening YGWC-27S



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

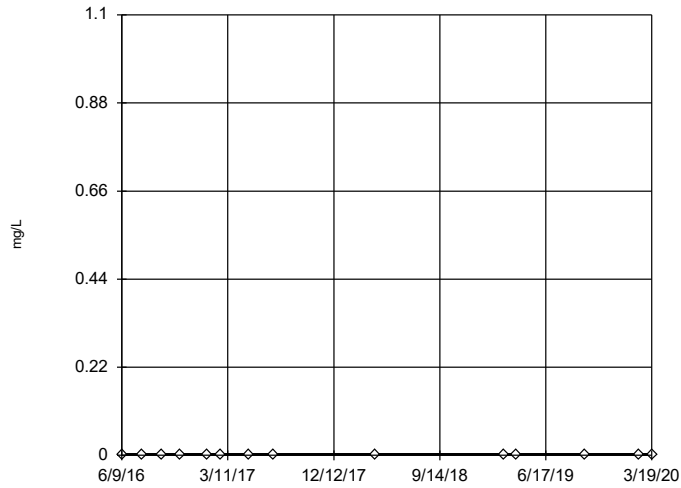
Tukey's Outlier Screening YGWC-28I



n = 14
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.001675,
 low cutoff = -0.00109,
 based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

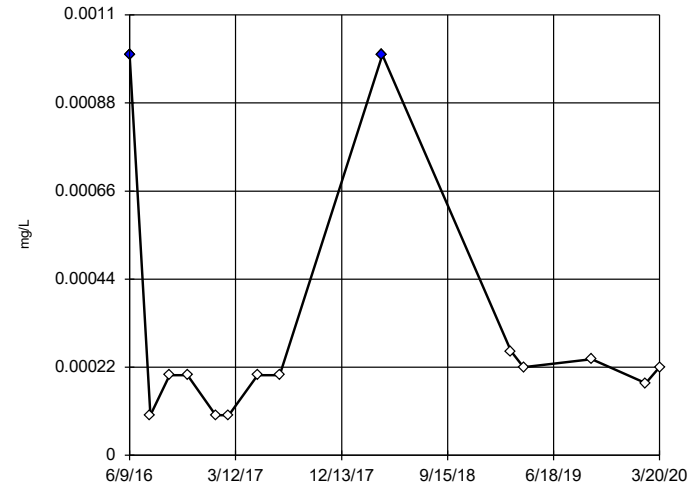
Tukey's Outlier Screening
YGWC-28S



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

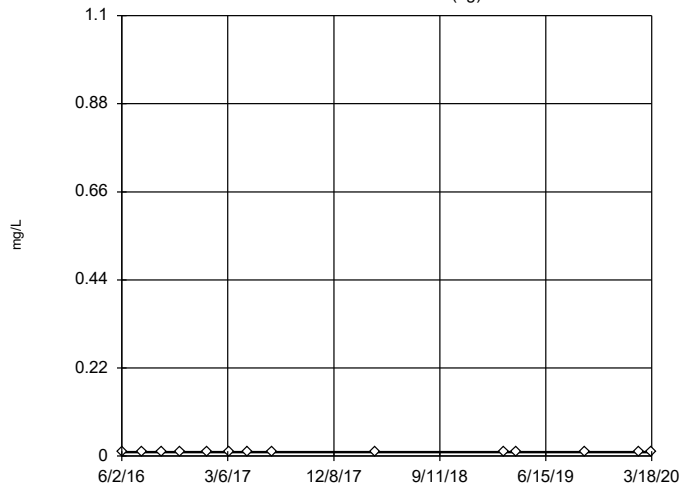
Tukey's Outlier Screening
YGWC-29I



n = 14
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.00058, low cutoff = -0.00019, based on IQR multiplier of 3.

Constituent: Cadmium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

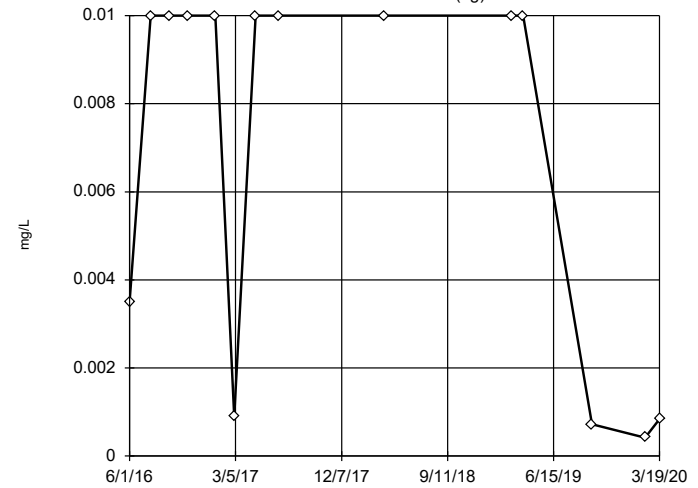
Tukey's Outlier Screening
YGWA-14S (bg)



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening
YGWA-1D (bg)

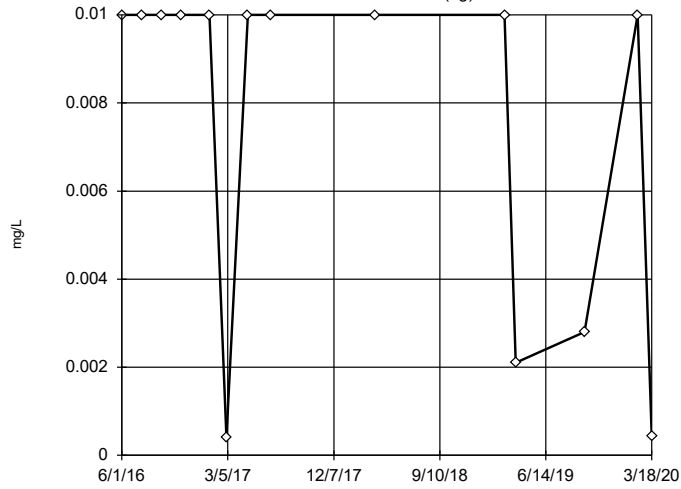


n = 14
No outliers found.
Tukey's method selected by user.
High cutoff = 0.03739, low cutoff = -0.02652, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-11 (bg)

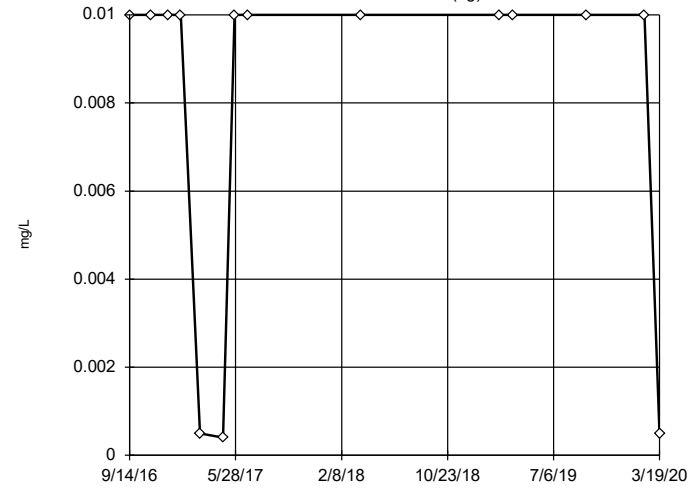


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.03265,
 low cutoff = -0.0202,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-21 (bg)

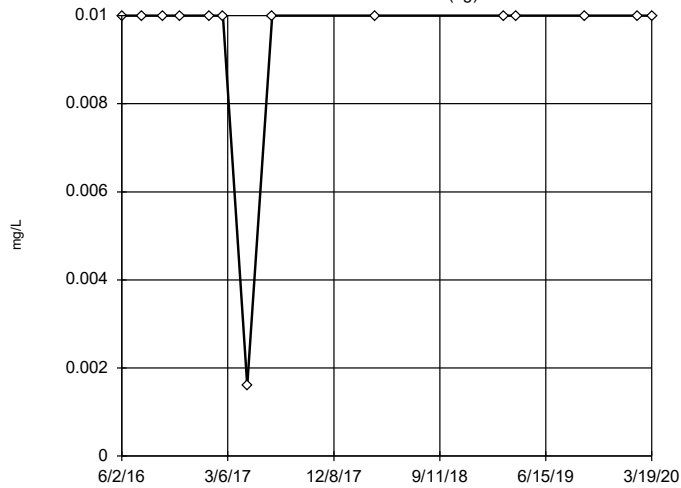


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.02425,
 low cutoff = -0.009,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-30I (bg)

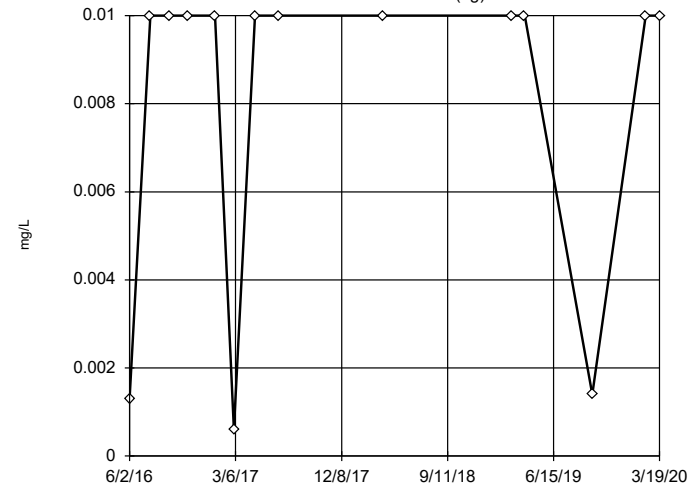


n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated,
 because the lower and upper
 quartiles are equal.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3D (bg)

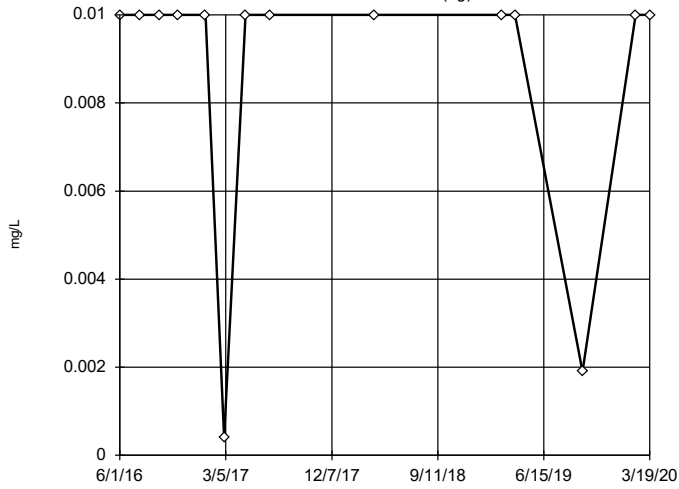


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0229,
 low cutoff = -0.0072,
 based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3I (bg)

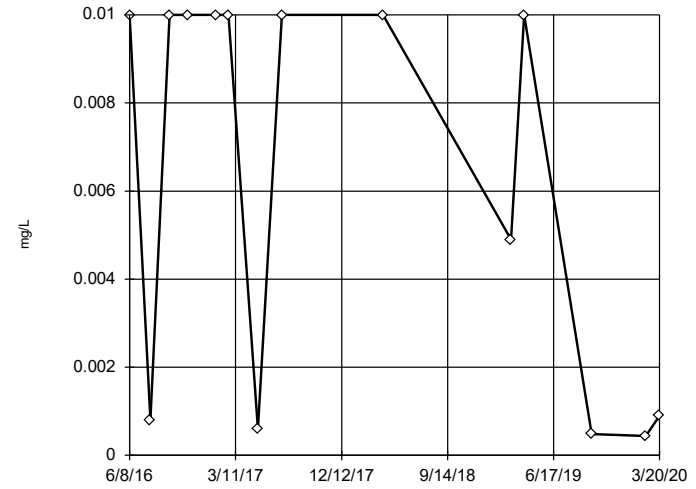


n = 14
 No outliers found. Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-26I

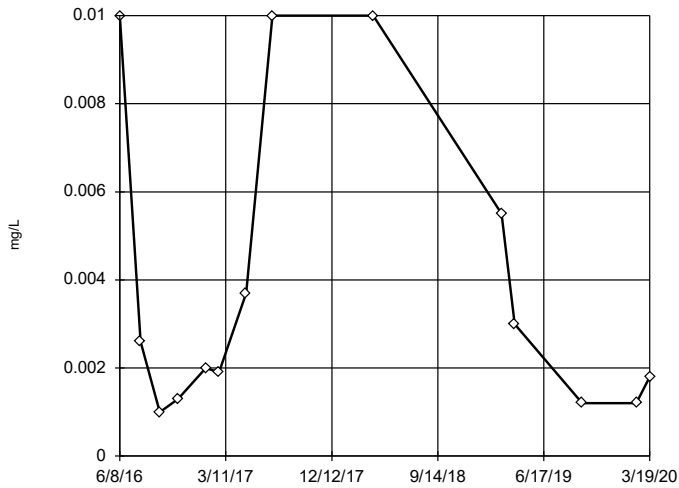


n = 14
 No outliers found. Tukey's method selected by user.
 High cutoff = 0.0379, low cutoff = -0.0272, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-26S

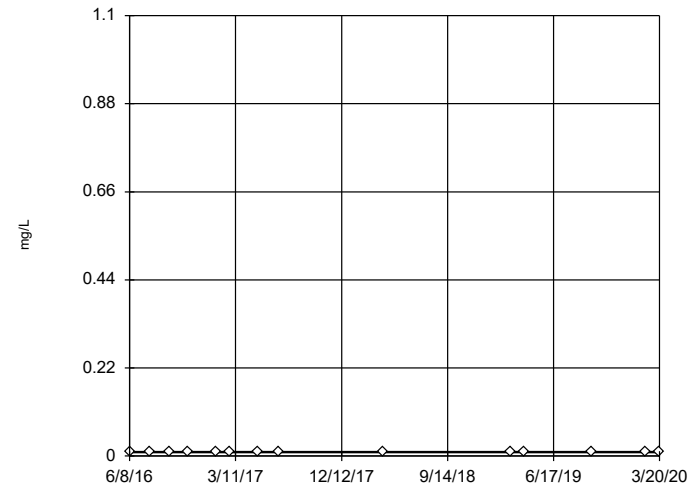


n = 14
 No outliers found. Tukey's method selected by user.
 High cutoff = 0.02725, low cutoff = -0.01825, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

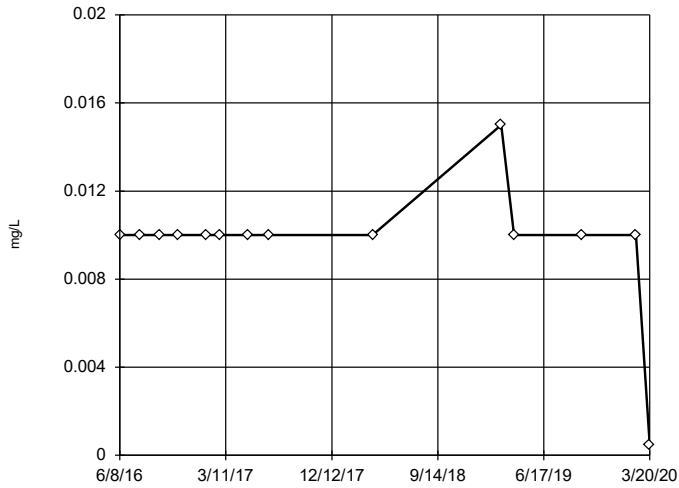
YGWC-27I



n = 14
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

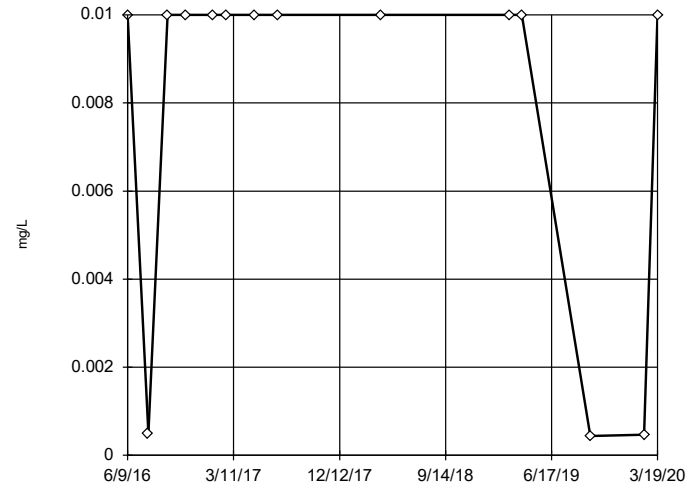
Tukey's Outlier Screening
YGWC-27S



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

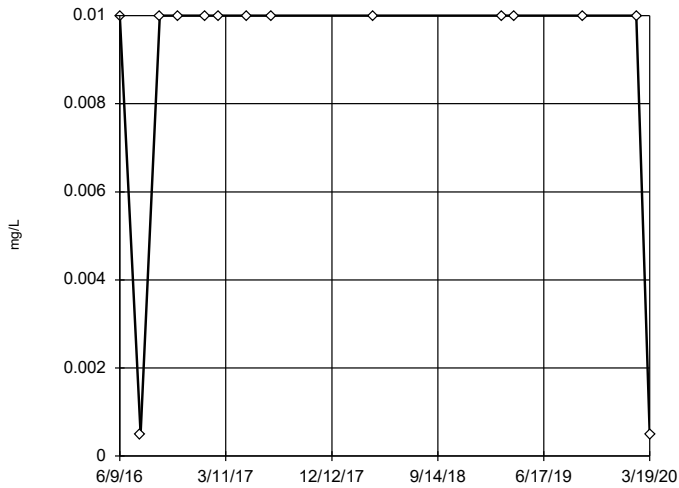
Tukey's Outlier Screening
YGWC-28I



n = 14
No outliers found. Tukey's method selected by user.
High cutoff = 0.02425, low cutoff = -0.009, based on IQR multiplier of 3.

Constituent: Chromium Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

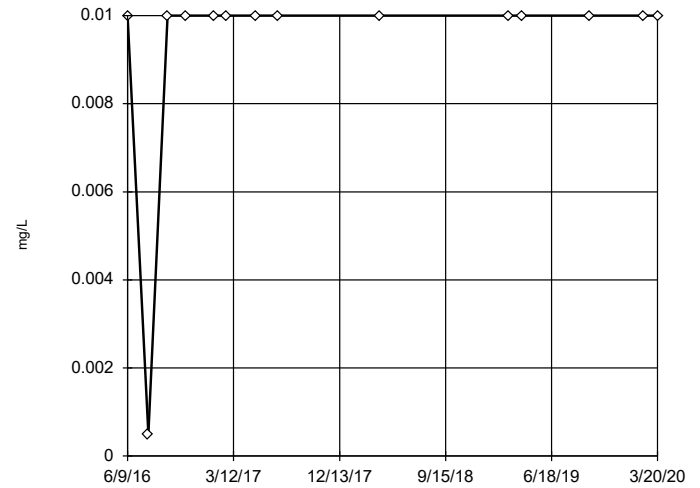
Tukey's Outlier Screening
YGWC-28S



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

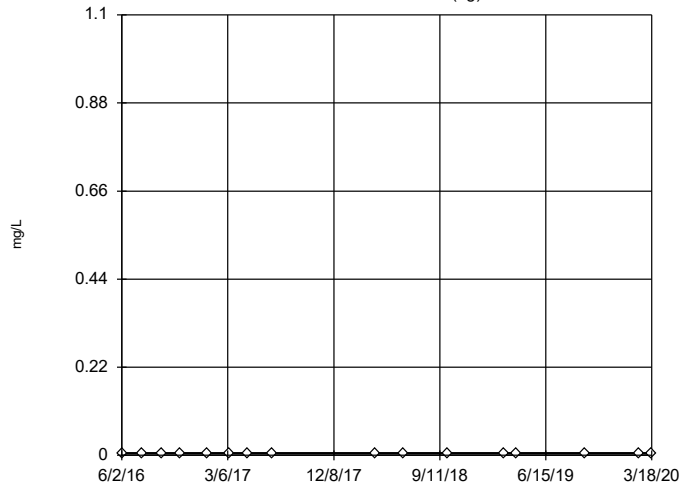
Tukey's Outlier Screening
YGWC-29I



n = 14
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

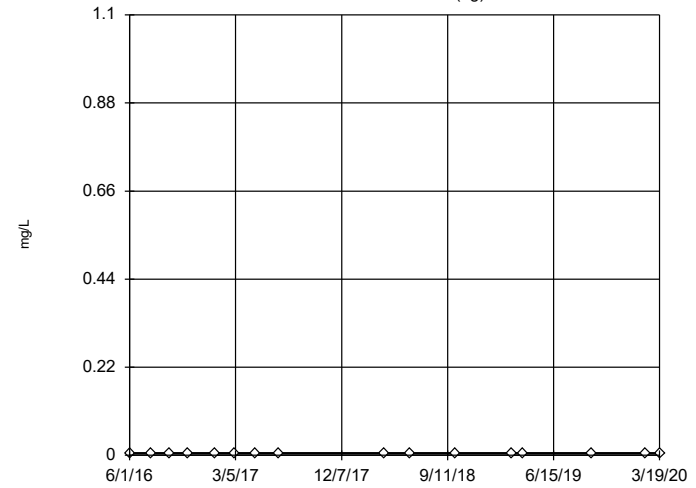
Tukey's Outlier Screening YGWA-14S (bg)



n = 16
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

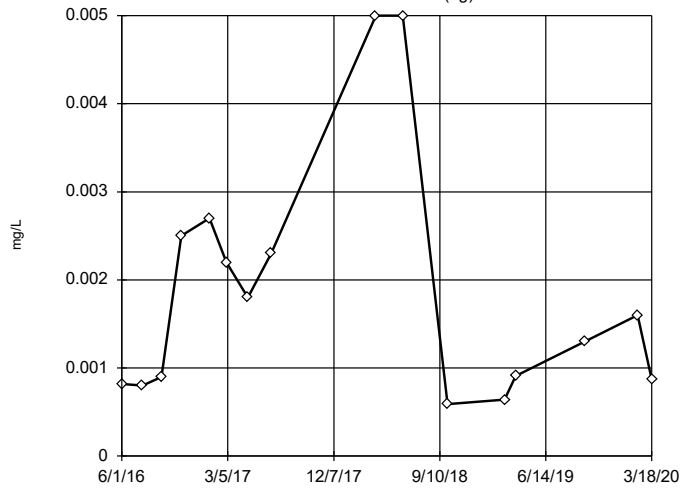
Tukey's Outlier Screening YGWA-1D (bg)



n = 16
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

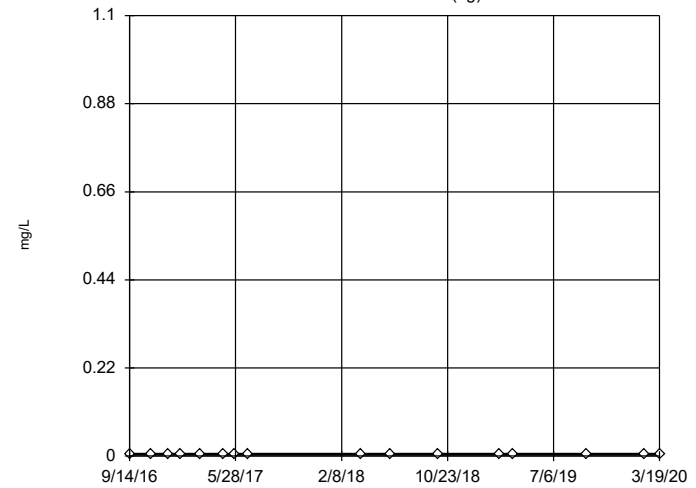
Tukey's Outlier Screening YGWA-11 (bg)



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.007065,
 low cutoff = -0.00382,
 based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-2I (bg)



n = 16
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

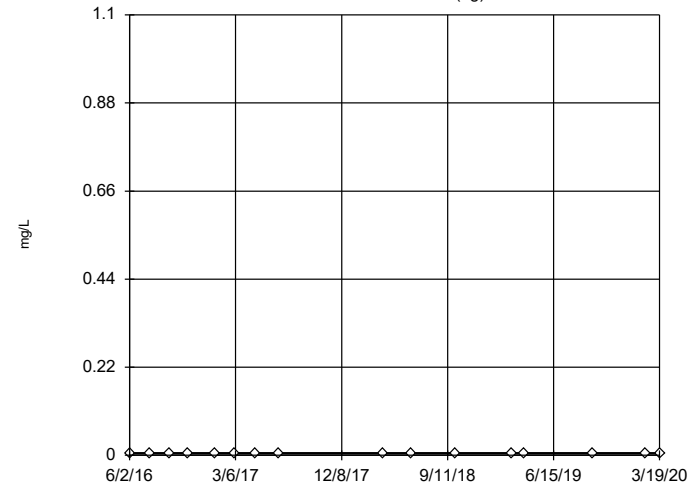
Tukey's Outlier Screening YGWA-30I (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0409,
low cutoff = 0.00695,
based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

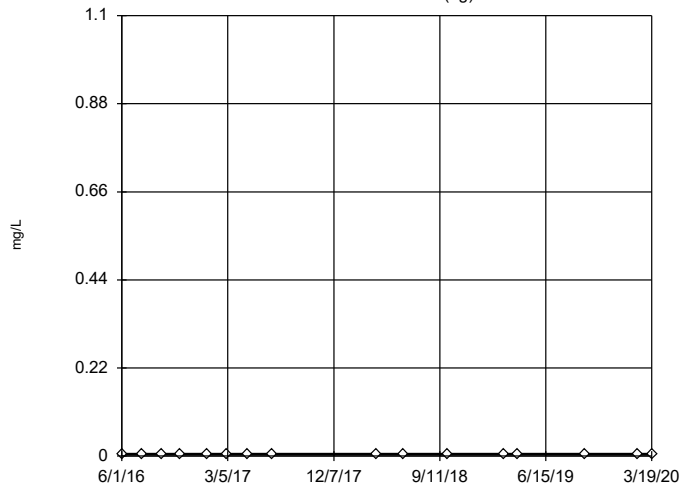
Tukey's Outlier Screening YGWA-3D (bg)



n = 16
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

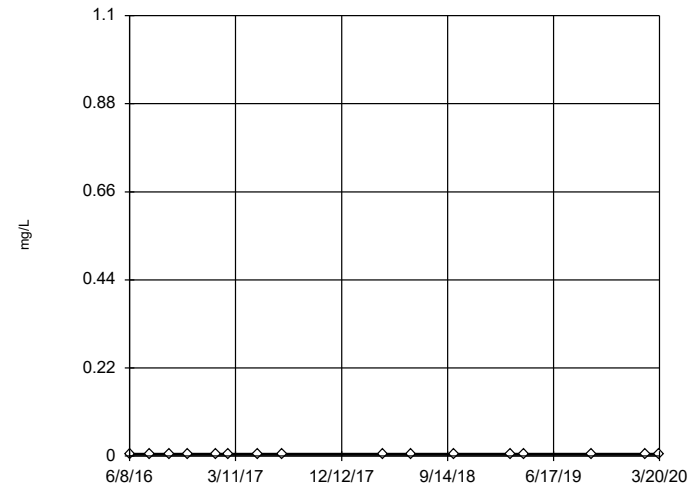
Tukey's Outlier Screening YGWA-3I (bg)



n = 16
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 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWC-26I

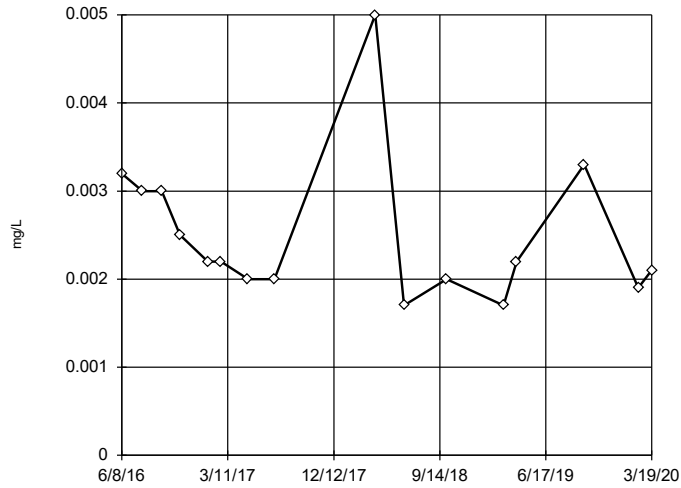


n = 16
No outliers found.
Tukey's method selected by user.
The results were invalidated,
because the lower and upper
quartiles are equal.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-26S

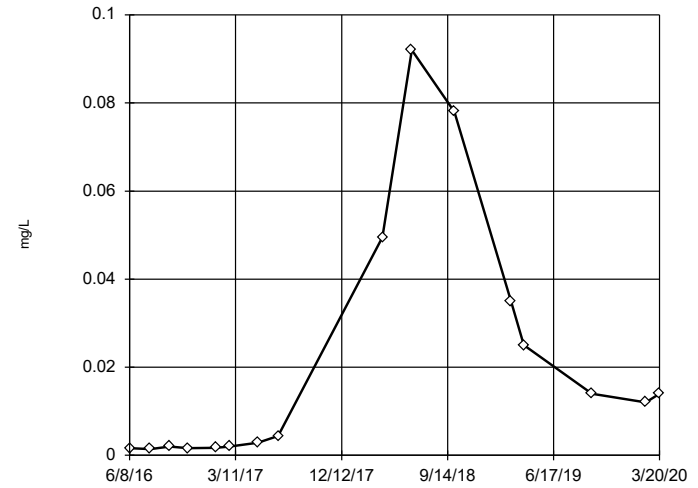


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.006, low cutoff = -0.001, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-27I

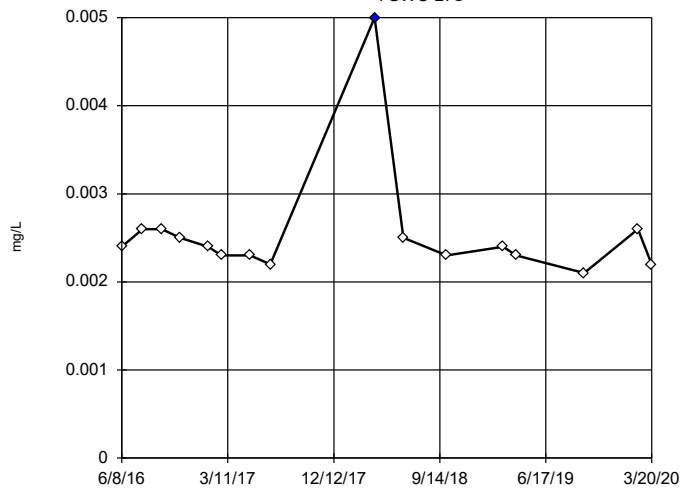


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.1145, low cutoff = -0.0826, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-27S

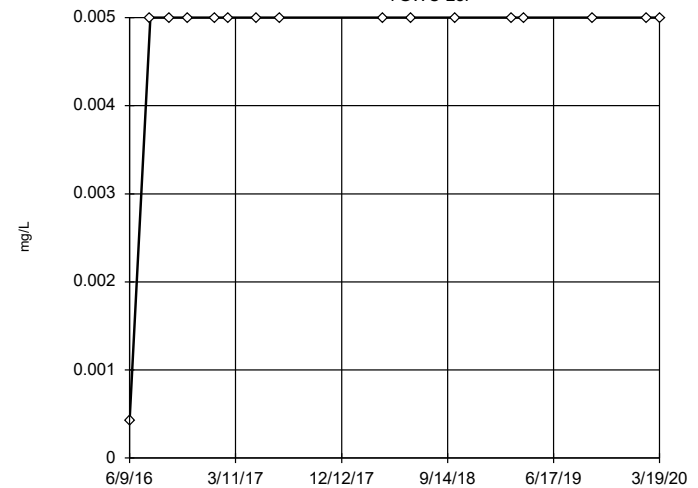


n = 16
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.0033, low cutoff = 0.00155, based on IQR multiplier of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

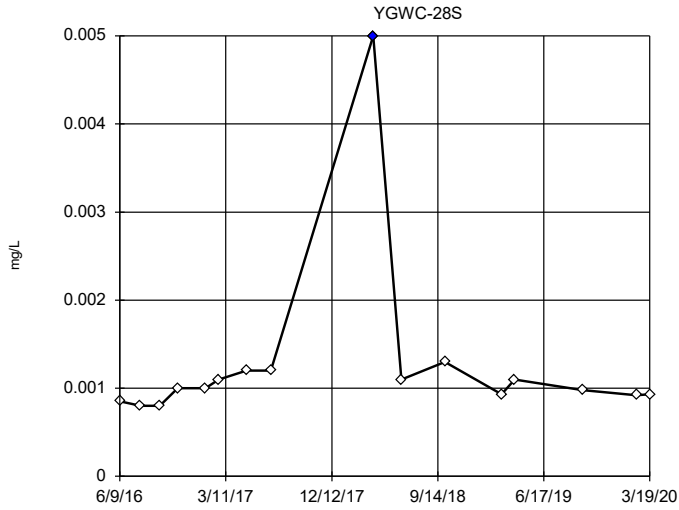
YGWC-28I



n = 16
 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 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

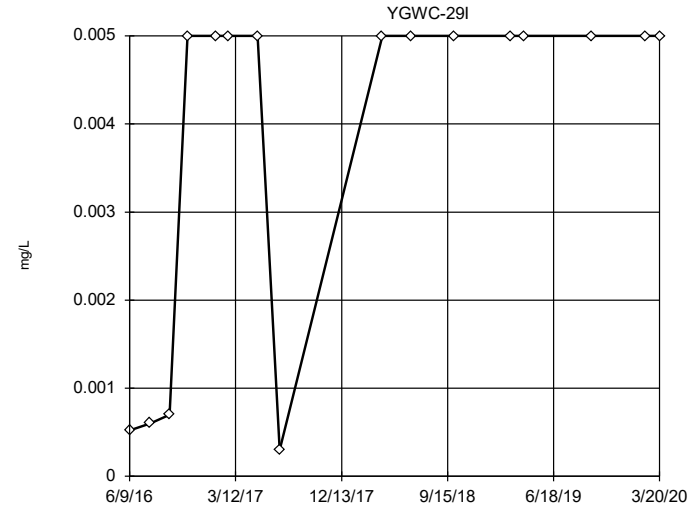
Tukey's Outlier Screening



n = 16
 Outlier is drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.001825,
 low cutoff = 0.00025,
 based on IQR multiplier
 of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

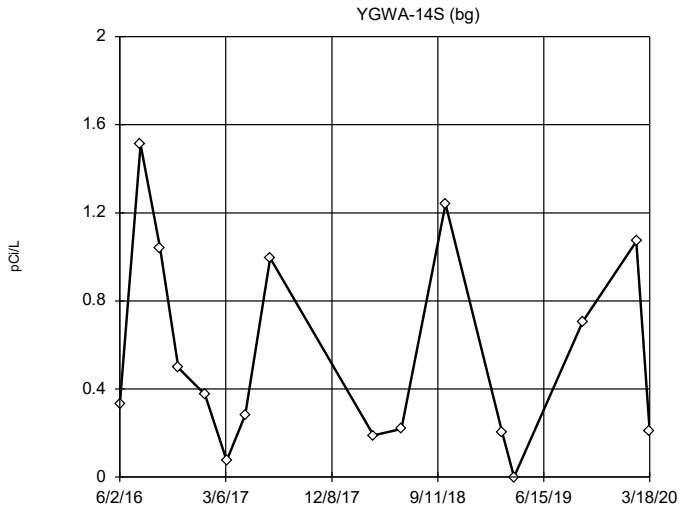
Tukey's Outlier Screening



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01145,
 low cutoff = -0.0036,
 based on IQR multiplier
 of 3.

Constituent: Cobalt Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

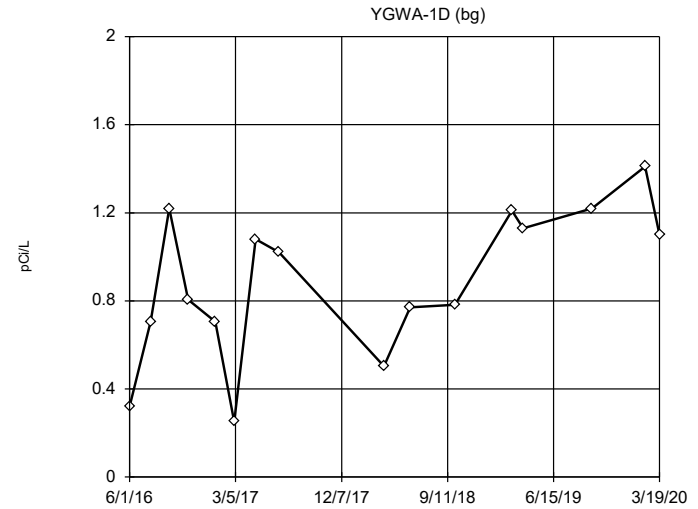
Tukey's Outlier Screening



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 3.455, low
 cutoff = -2.233, based
 on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

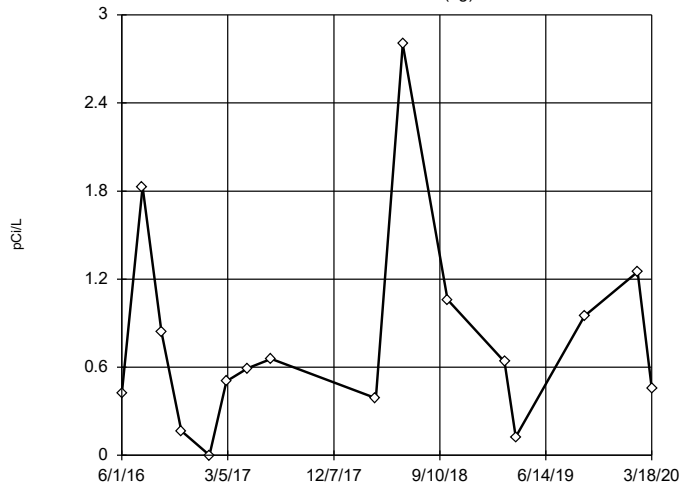
Tukey's Outlier Screening



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 2.562, low
 cutoff = -0.686, based
 on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

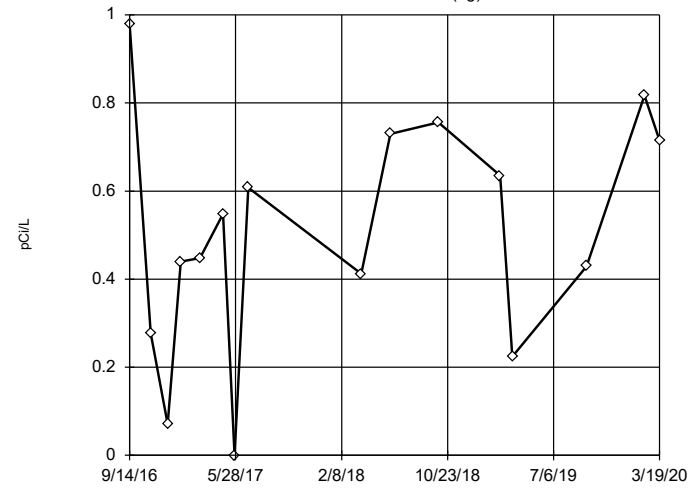
Tukey's Outlier Screening
YGWA-11 (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 2.803, low cutoff = -1.394, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

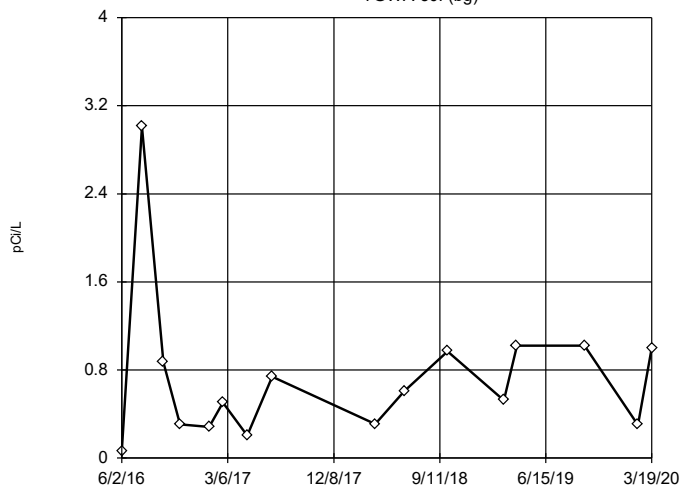
Tukey's Outlier Screening
YGWA-21 (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 1.857, low cutoff = -0.7895, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

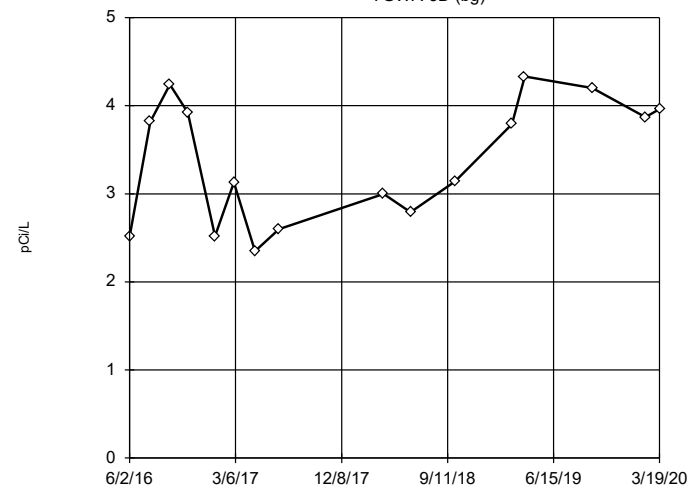
Tukey's Outlier Screening
YGWA-30I (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 3.028, low cutoff = -1.739, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

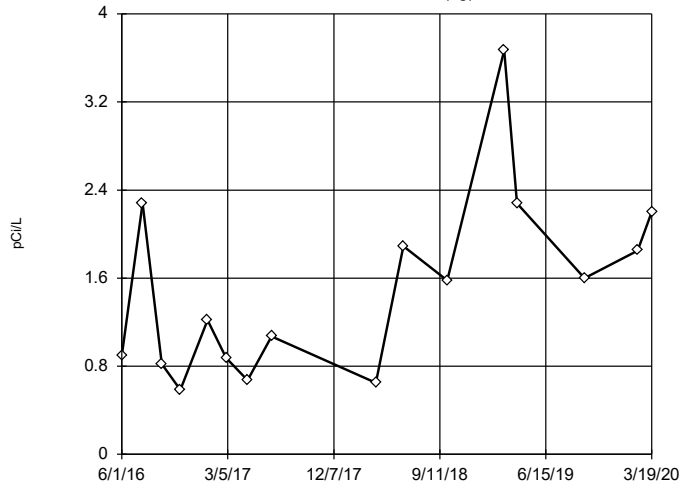
Tukey's Outlier Screening
YGWA-3D (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 7.675, low cutoff = -1.04, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

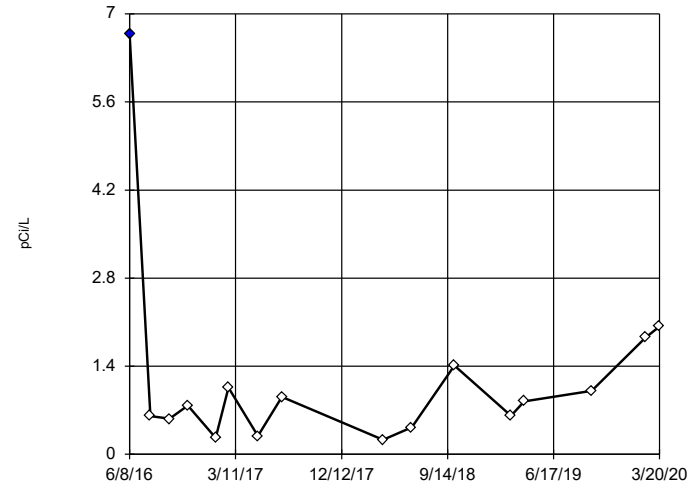
Tukey's Outlier Screening
YGWA-3I (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 5.633, low cutoff = -2.739, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

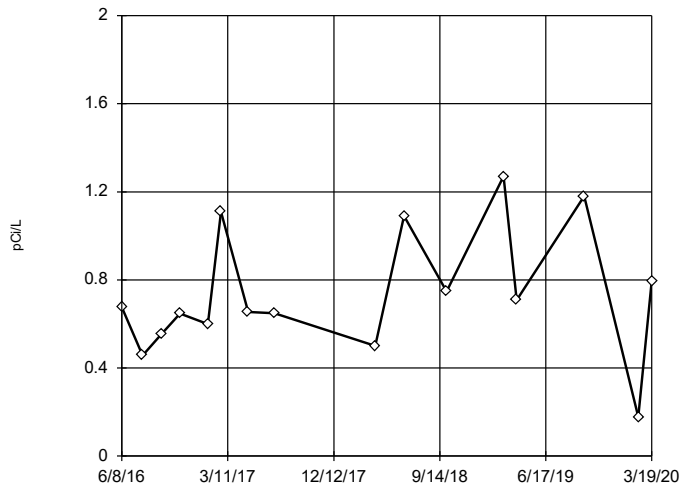
Tukey's Outlier Screening
YGWC-26I



n = 16
Outlier is drawn as solid. Tukey's method selected by user.
High cutoff = 3.452, low cutoff = -1.721, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

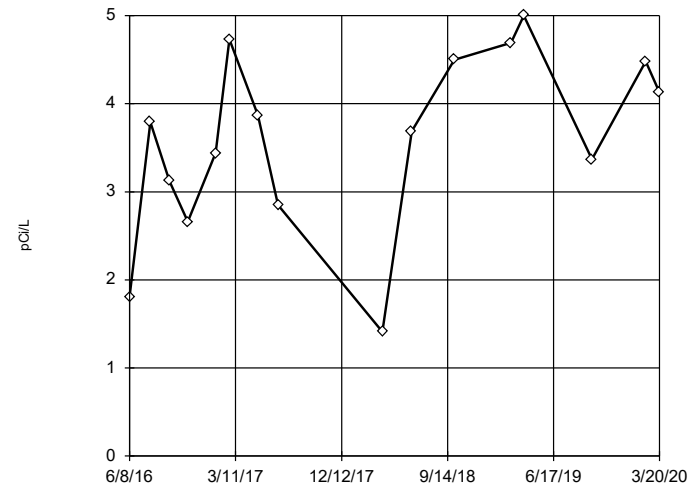
Tukey's Outlier Screening
YGWC-26S



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 2.04, low cutoff = -0.519, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

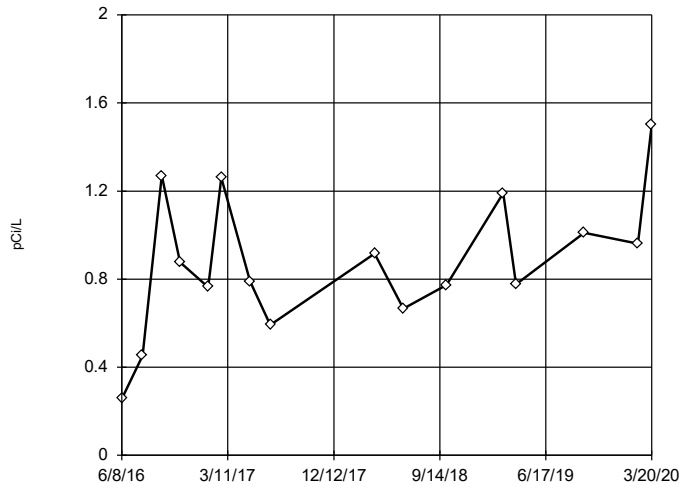
Tukey's Outlier Screening
YGWC-27I



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 9.005, low cutoff = -1.53, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:25 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

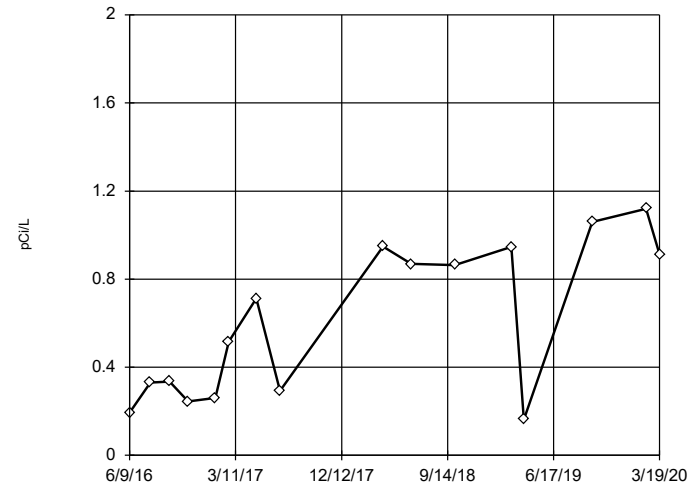
Tukey's Outlier Screening
YGWC-27S



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 2.255, low cutoff = -0.44, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

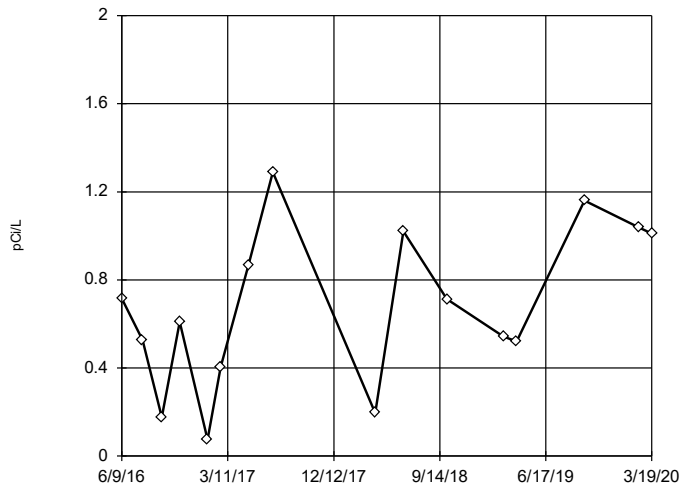
Tukey's Outlier Screening
YGWC-28I



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 2.891, low cutoff = -1.684, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

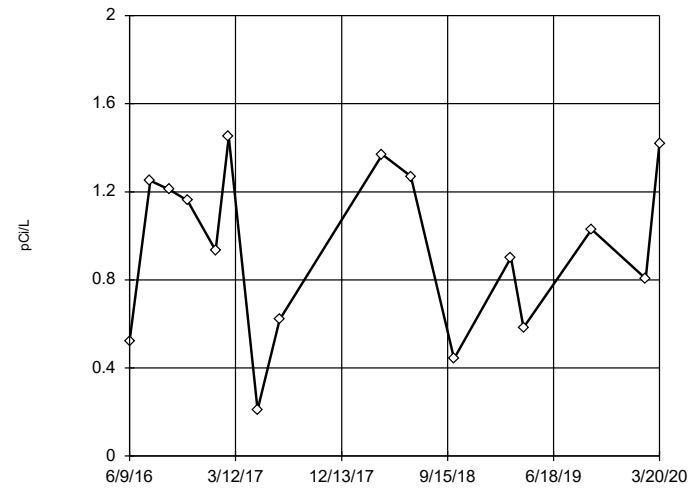
Tukey's Outlier Screening
YGWC-28S



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 2.673, low cutoff = -1.195, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

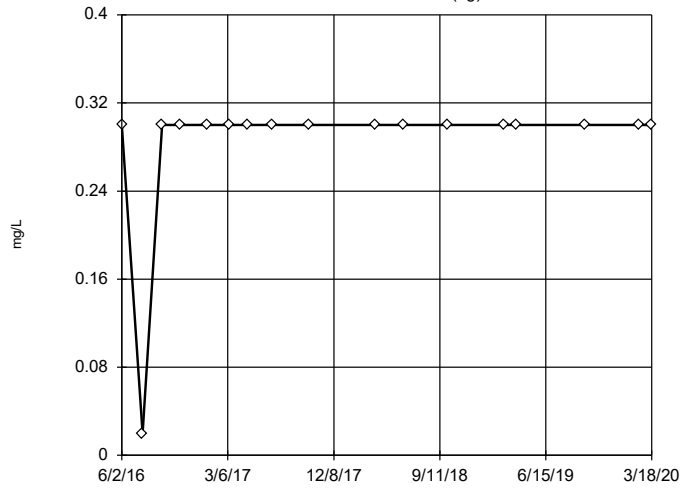
Tukey's Outlier Screening
YGWC-29I



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 3.234, low cutoff = -1.372, based on IQR multiplier of 3.

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

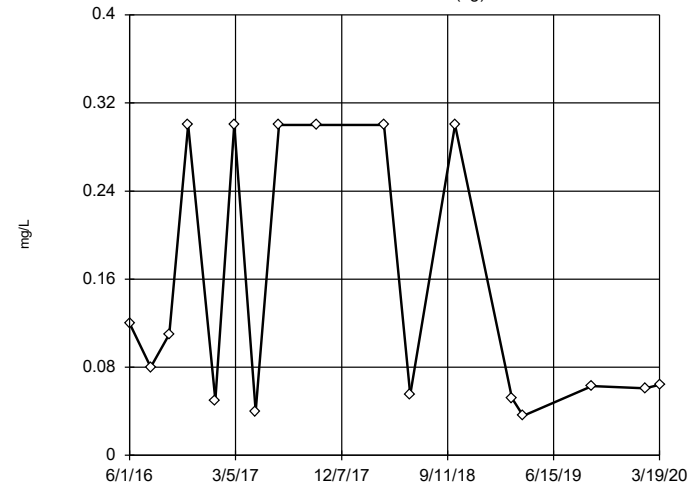
Tukey's Outlier Screening
YGWA-14S (bg)



n = 17
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 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

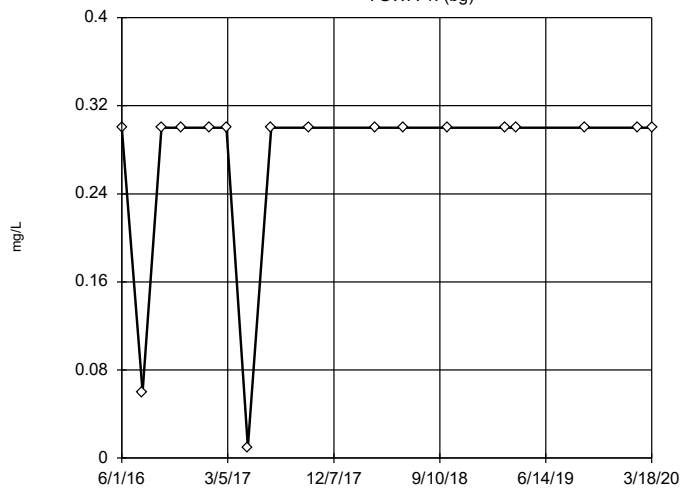
Tukey's Outlier Screening
YGWA-1D (bg)



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 1.04, low cutoff = -0.686, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

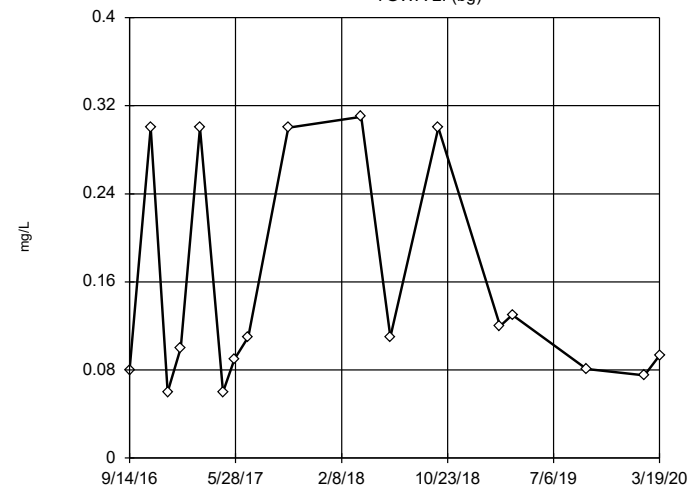
Tukey's Outlier Screening
YGWA-11 (bg)



n = 17
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 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

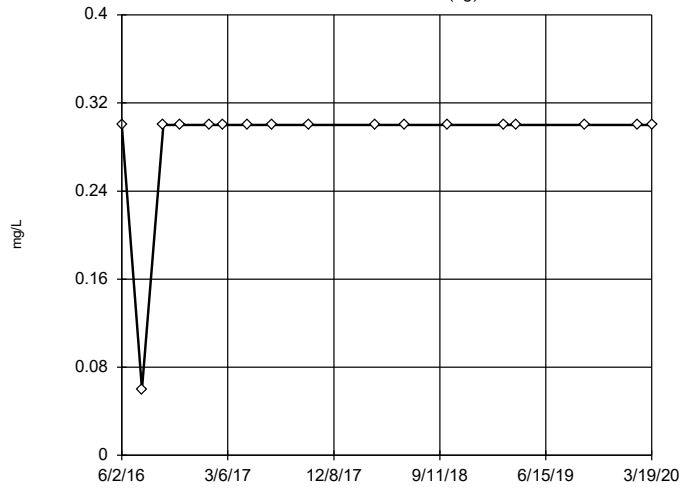
Tukey's Outlier Screening
YGWA-2I (bg)



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.9585, low cutoff = -0.578, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

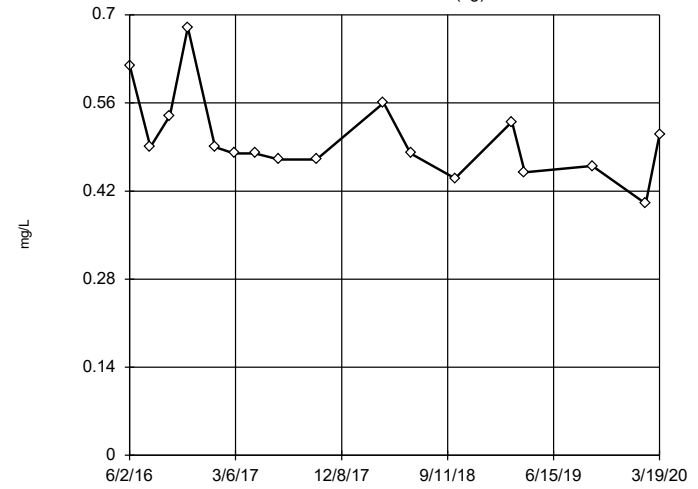
Tukey's Outlier Screening
YGWA-30I (bg)



n = 17
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 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

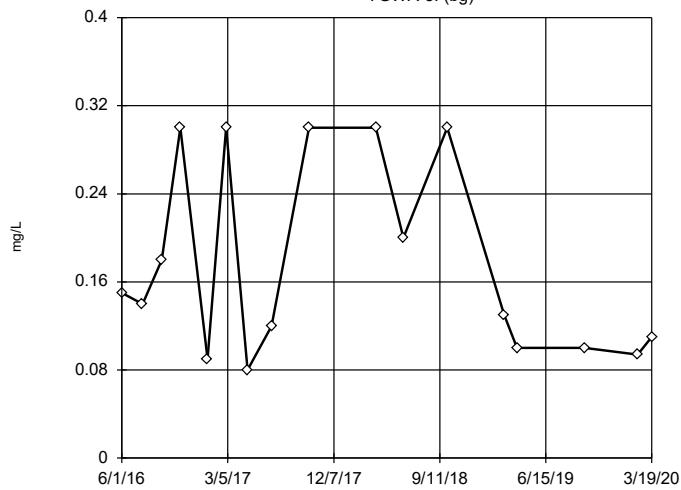
Tukey's Outlier Screening
YGWA-3D (bg)



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.745, low cutoff = 0.255, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

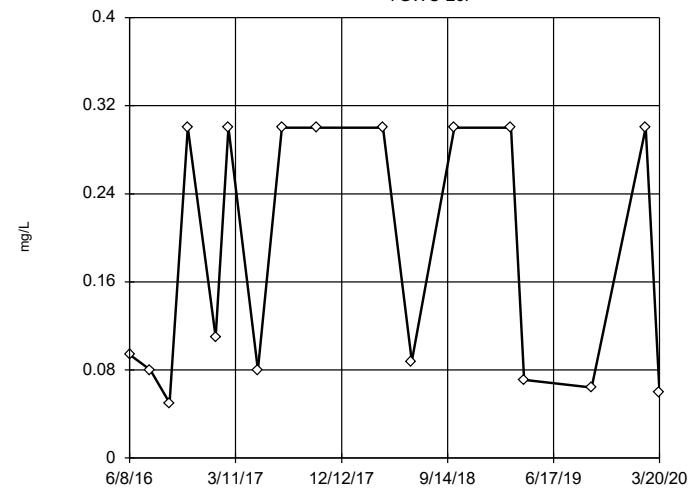
Tukey's Outlier Screening
YGWA-3I (bg)



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.9, low cutoff = -0.5, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

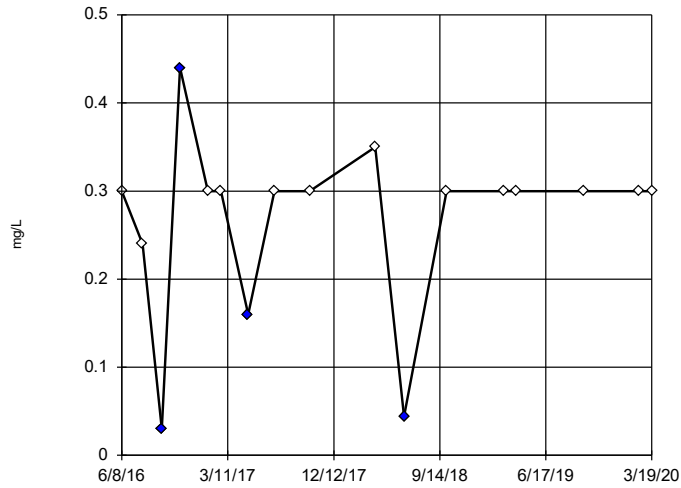
Tukey's Outlier Screening
YGWC-26I



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.9735, low cutoff = -0.598, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

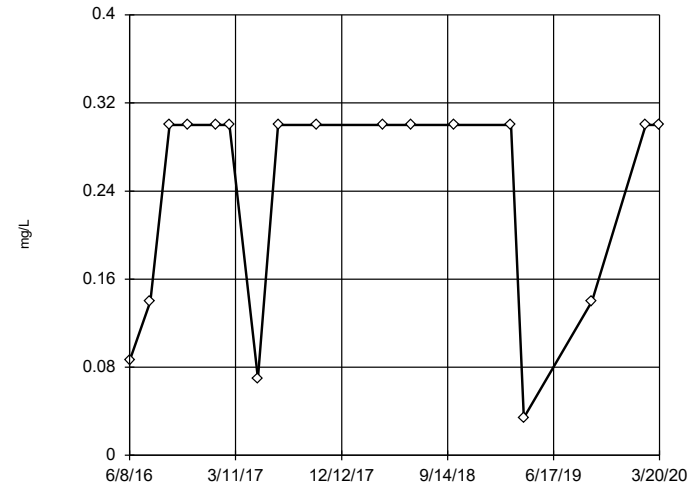
Tukey's Outlier Screening
YGWC-26S



n = 17
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.39, low cutoff = 0.18, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

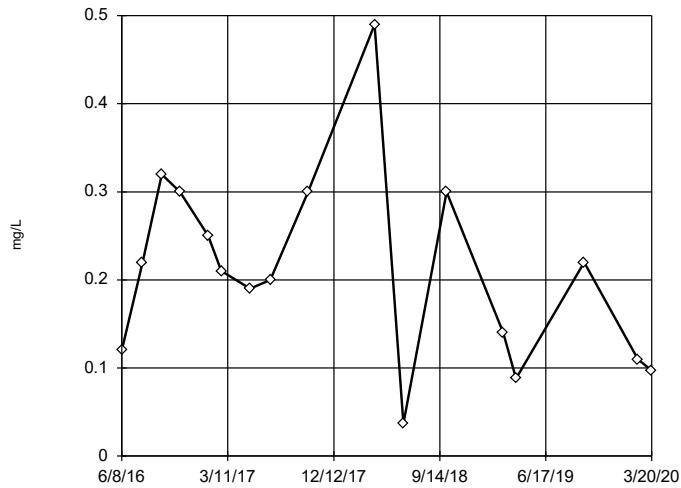
Tukey's Outlier Screening
YGWC-27I



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.78, low cutoff = -0.34, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

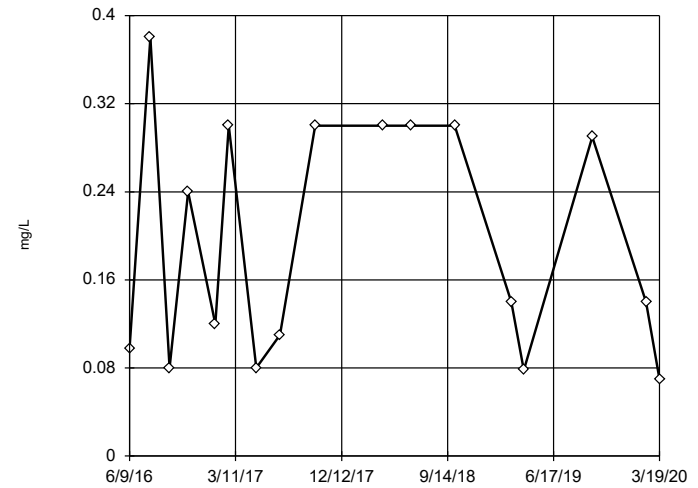
Tukey's Outlier Screening
YGWC-27S



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.855, low cutoff = -0.44, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

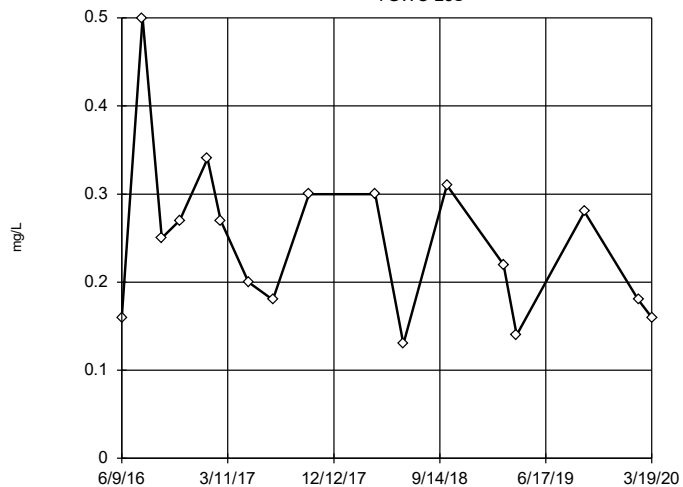
Tukey's Outlier Screening
YGWC-28I



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.933, low cutoff = -0.544, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

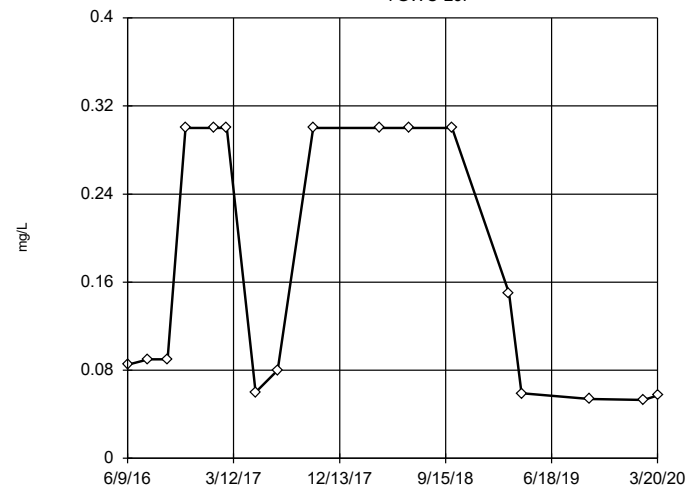
Tukey's Outlier Screening YGWC-28S



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 0.69, low cutoff = -0.22, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

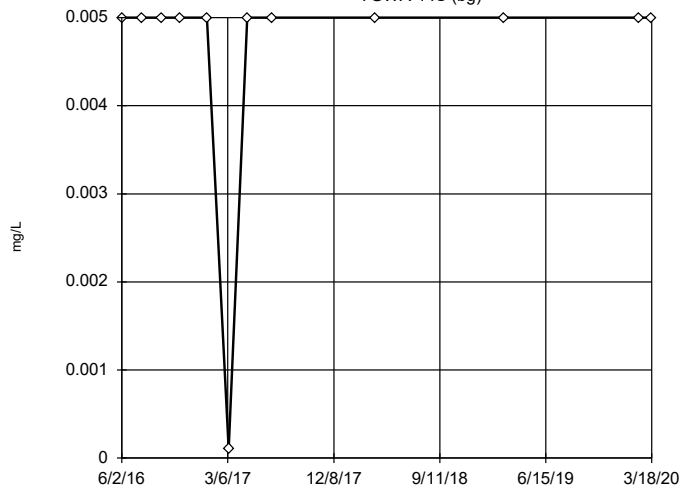
Tukey's Outlier Screening YGWC-29I



n = 17
No outliers found.
Tukey's method selected by user.
High cutoff = 1.022, low cutoff = -0.662, based on IQR multiplier of 3.

Constituent: Fluoride Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

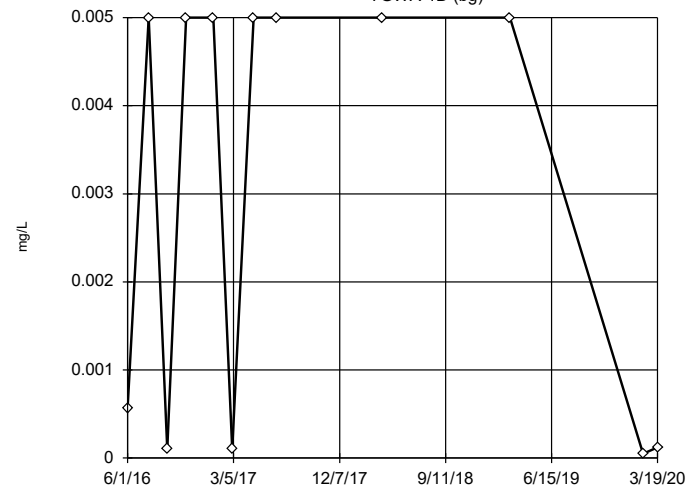
Tukey's Outlier Screening YGWA-14S (bg)



n = 12
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 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

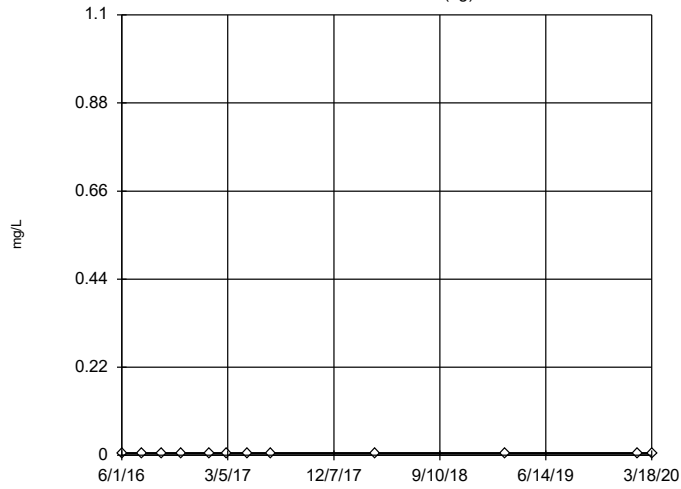
Tukey's Outlier Screening YGWA-1D (bg)



n = 12
No outliers found.
Tukey's method selected by user.
High cutoff = 0.01967, low cutoff = -0.01456, based on IQR multiplier of 3.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

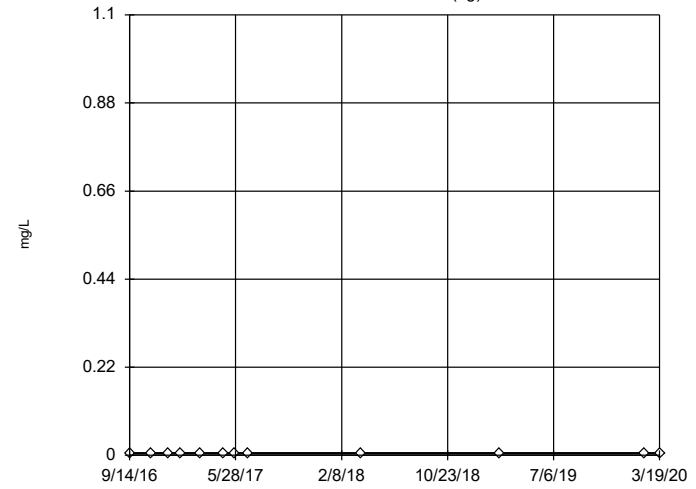
Tukey's Outlier Screening YGWA-11 (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

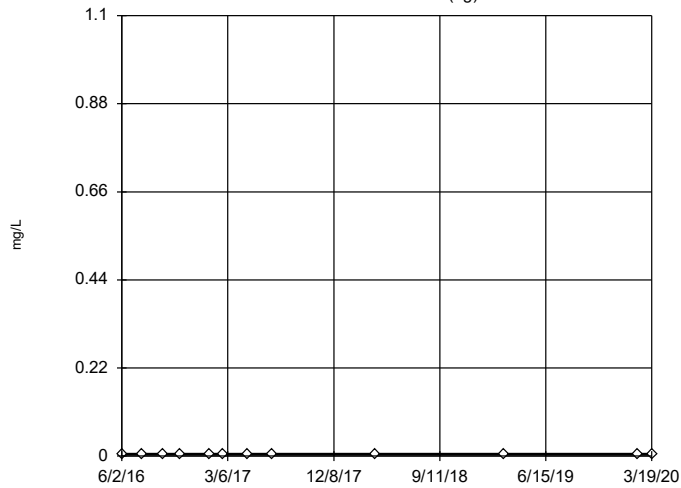
Tukey's Outlier Screening YGWA-21 (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

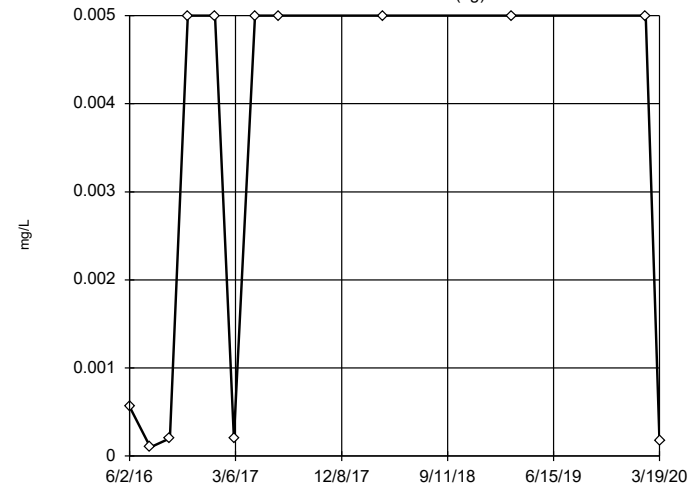
Tukey's Outlier Screening YGWA-30I (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

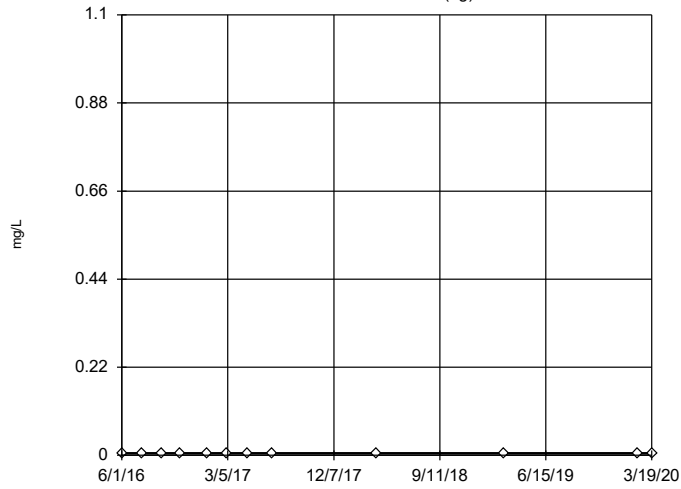
Tukey's Outlier Screening YGWA-3D (bg)



n = 12
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0194,
 low cutoff = -0.0142,
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

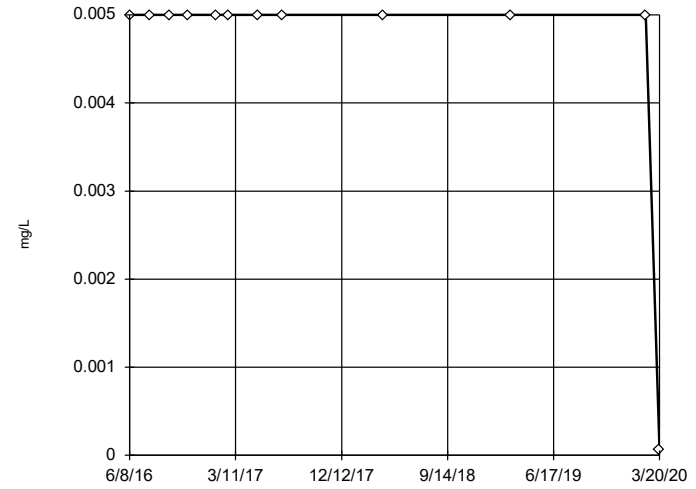
Tukey's Outlier Screening YGWA-3I (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

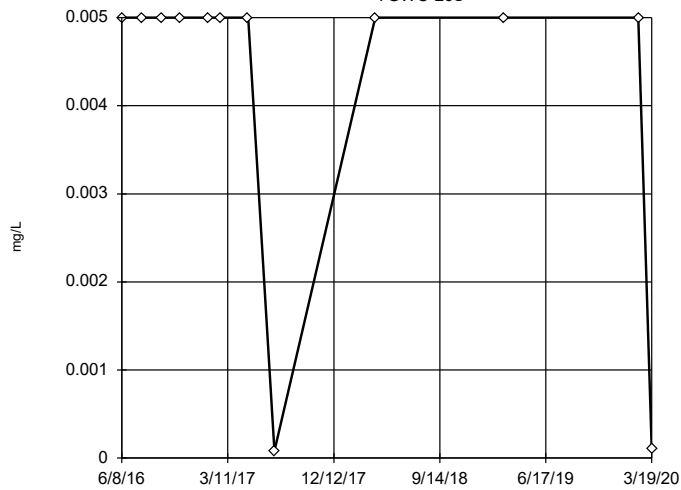
Tukey's Outlier Screening YGWC-26I



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

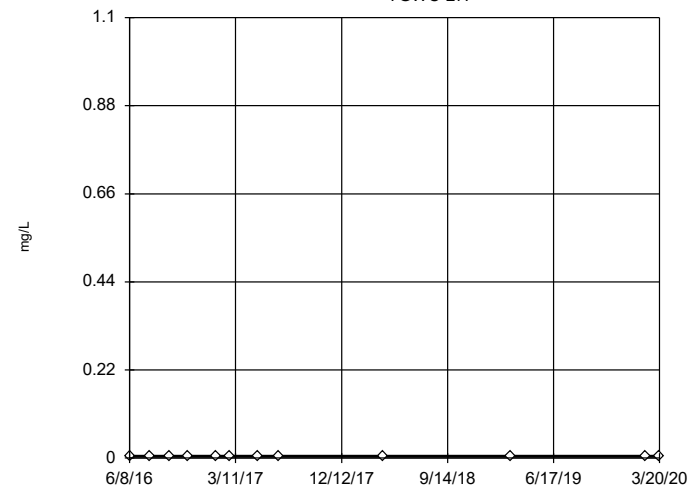
Tukey's Outlier Screening YGWC-26S



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWC-27I

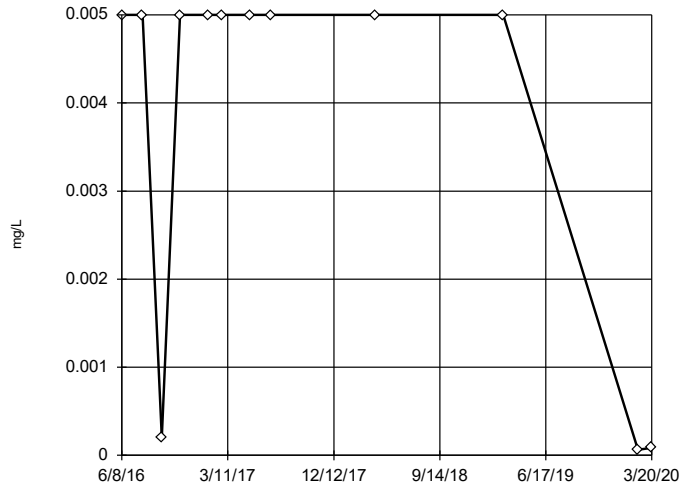


n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-27S

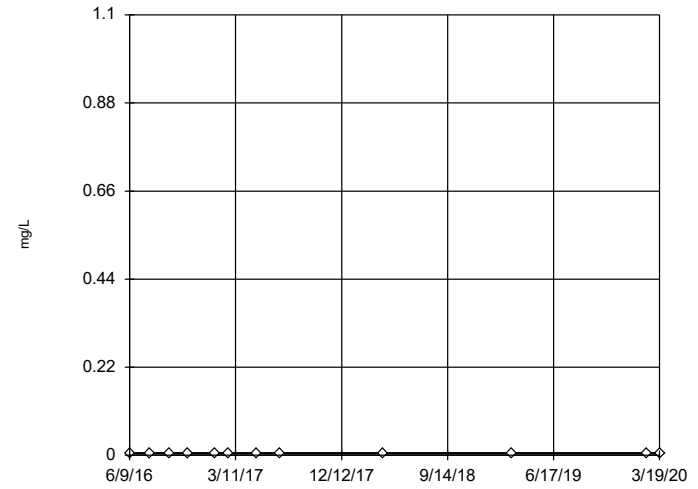


n = 12
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0122,
 low cutoff = -0.0046,
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-28I

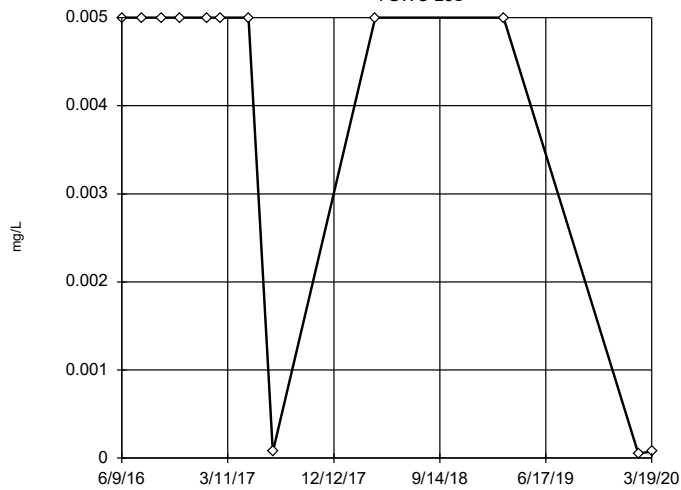


n = 12
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-28S

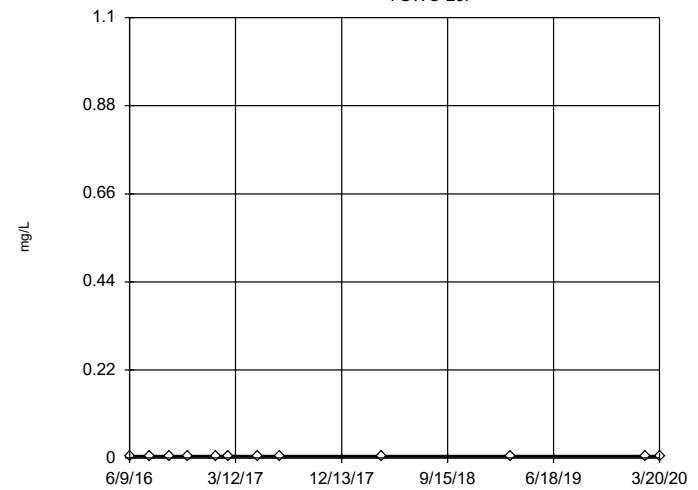


n = 12
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01239,
 low cutoff = -0.00485,
 based on IQR multiplier of 3.

Constituent: Lead Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

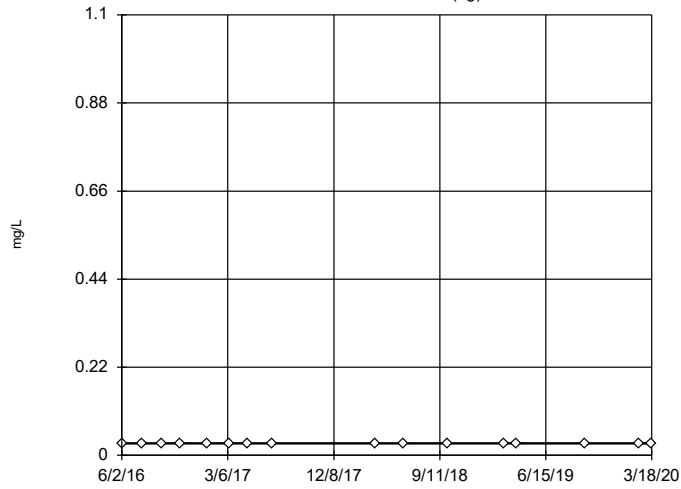
YGWC-29I



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

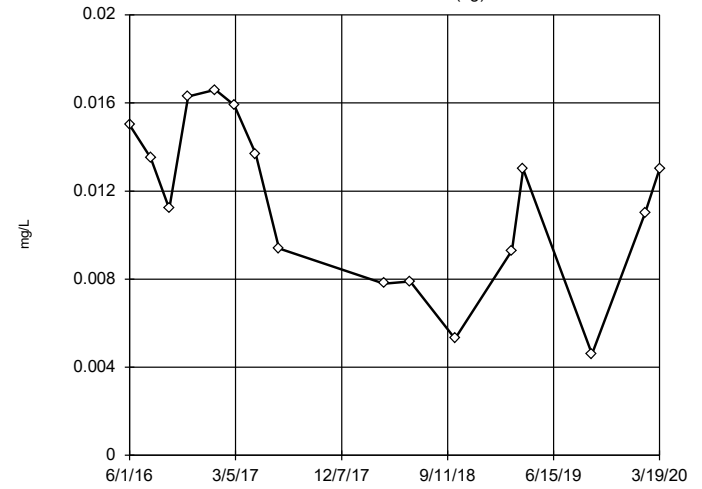
Tukey's Outlier Screening
YGWA-14S (bg)



n = 16
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

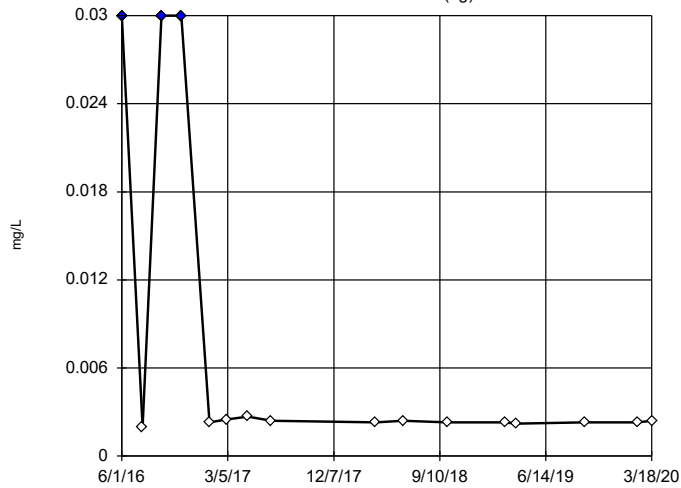
Tukey's Outlier Screening
YGWA-1D (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0316,
low cutoff = -0.00865,
based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

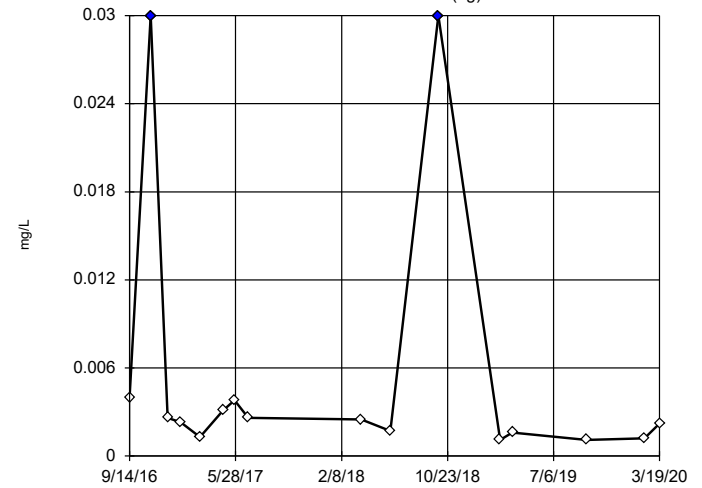
Tukey's Outlier Screening
YGWA-11 (bg)



n = 16
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.0035,
low cutoff = 0.0014, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening
YGWA-2I (bg)

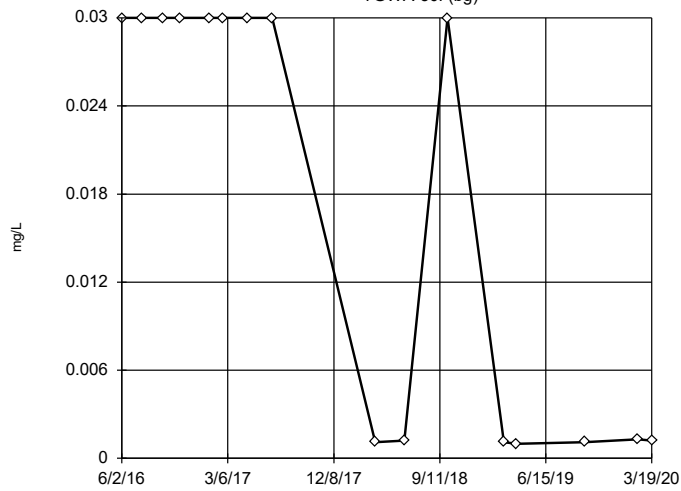


n = 16
Outliers are drawn as solid.
Tukey's method selected by user.
High cutoff = 0.00945,
low cutoff = -0.00455,
based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-30I (bg)

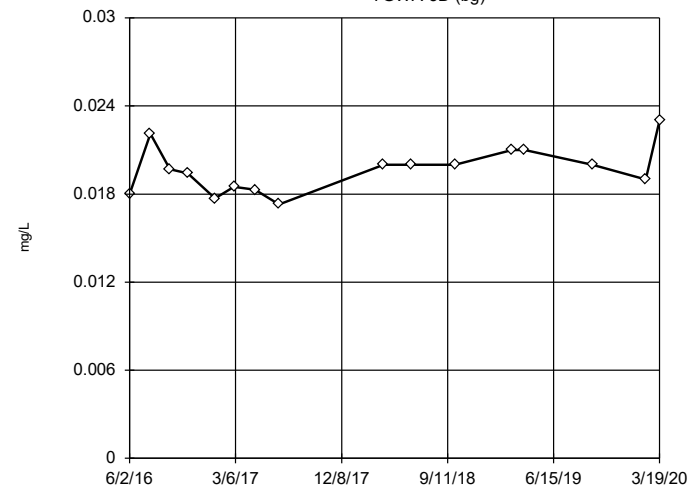


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.1165,
 low cutoff = -0.0854,
 based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3D (bg)

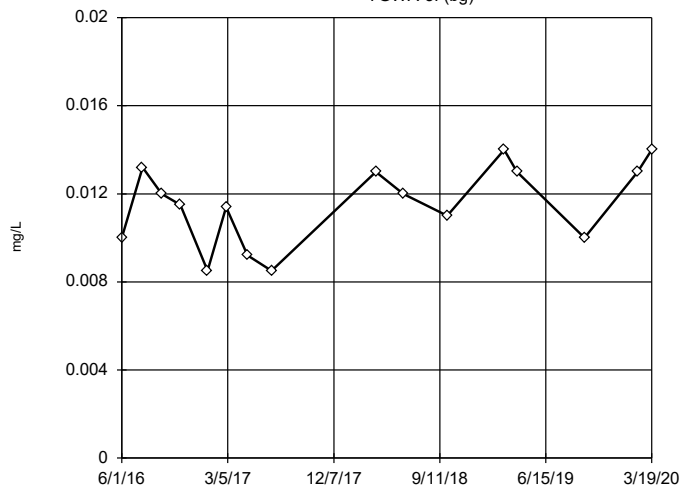


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0268,
 low cutoff = 0.0121, based
 on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3I (bg)

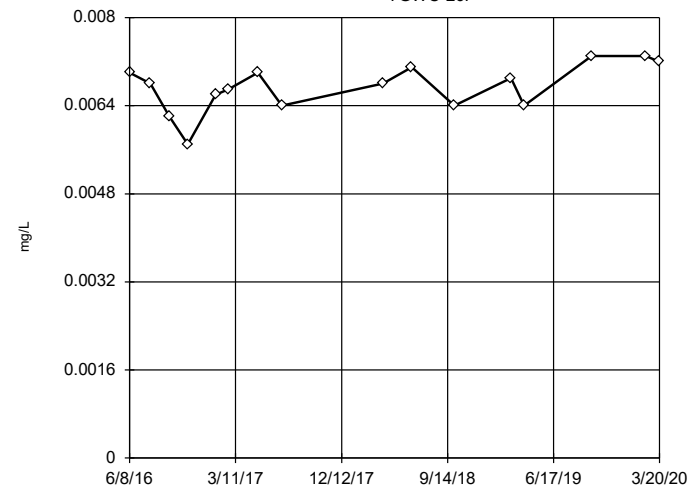


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.022, low
 cutoff = 0.001, based
 on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

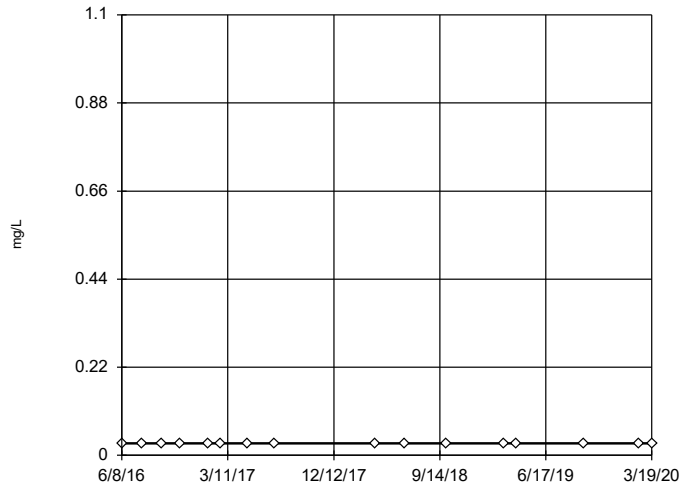
YGWC-26I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.009, low
 cutoff = 0.00445, based
 on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

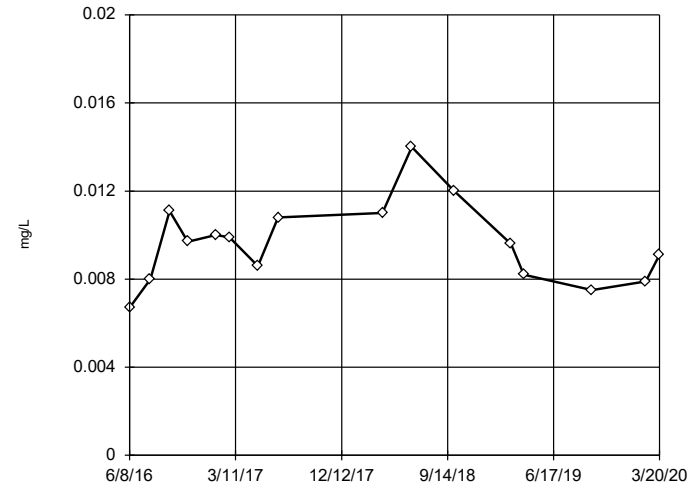
Tukey's Outlier Screening YGWC-26S



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

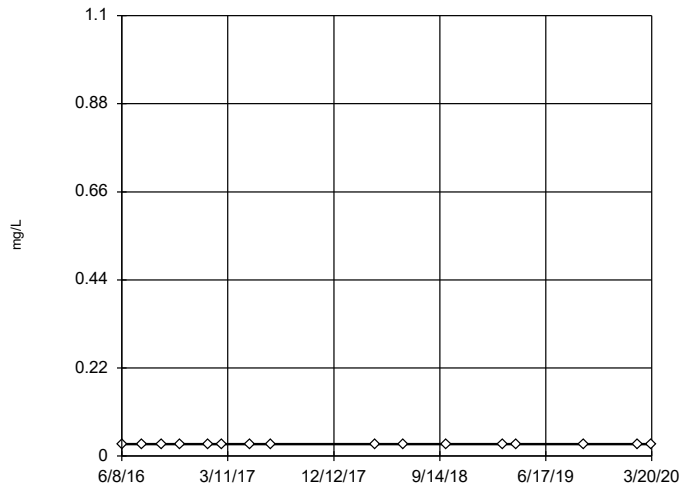
Tukey's Outlier Screening YGWC-27I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0193,
 low cutoff = -0.0003,
 based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

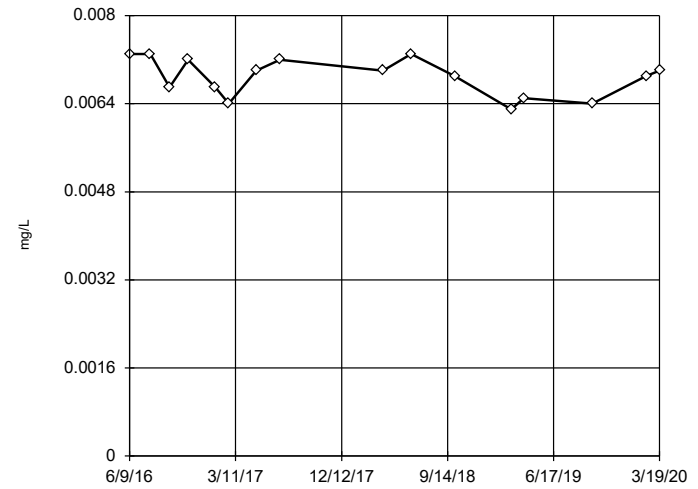
Tukey's Outlier Screening YGWC-27S



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

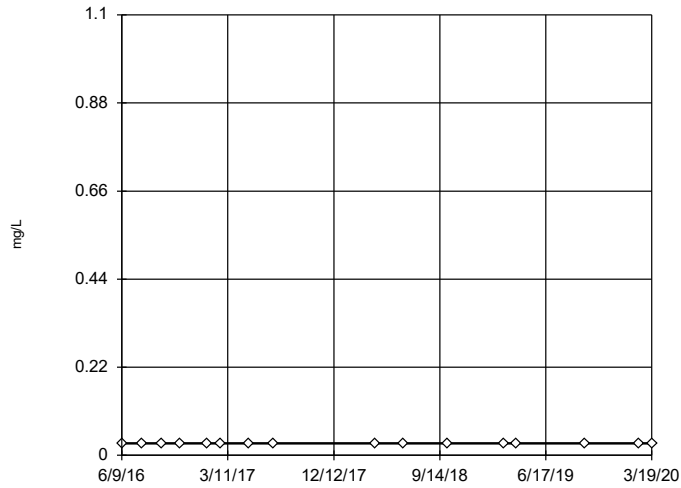
Tukey's Outlier Screening YGWC-28I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.009,
 low cutoff = 0.0048,
 based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

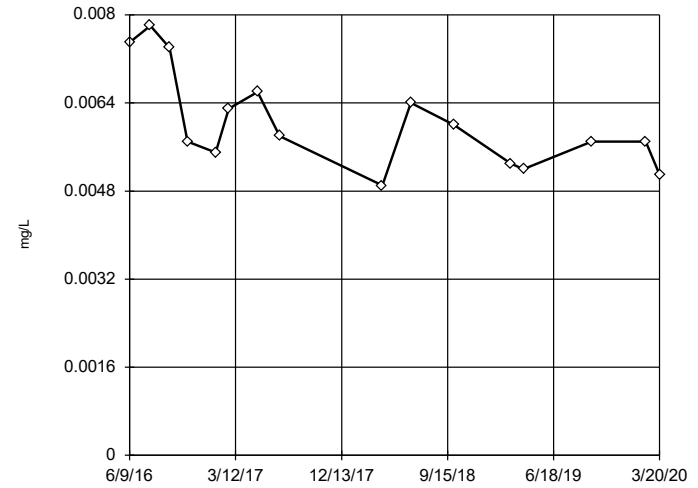
Tukey's Outlier Screening
YGWC-28S



n = 16
No outliers found. Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

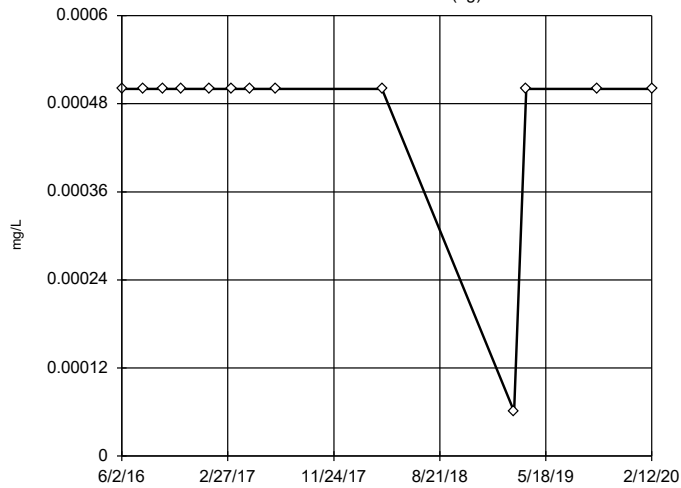
Tukey's Outlier Screening
YGWC-29I



n = 16
No outliers found. Tukey's method selected by user.
High cutoff = 0.0098, low cutoff = 0.0021, based on IQR multiplier of 3.

Constituent: Lithium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

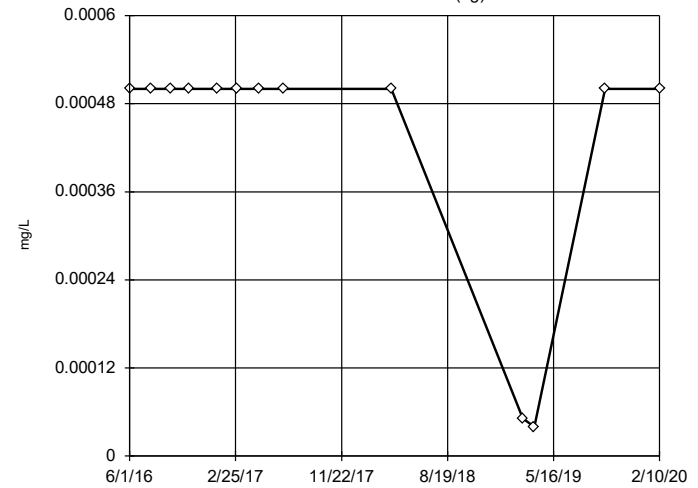
Tukey's Outlier Screening
YGWA-14S (bg)



n = 13
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 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

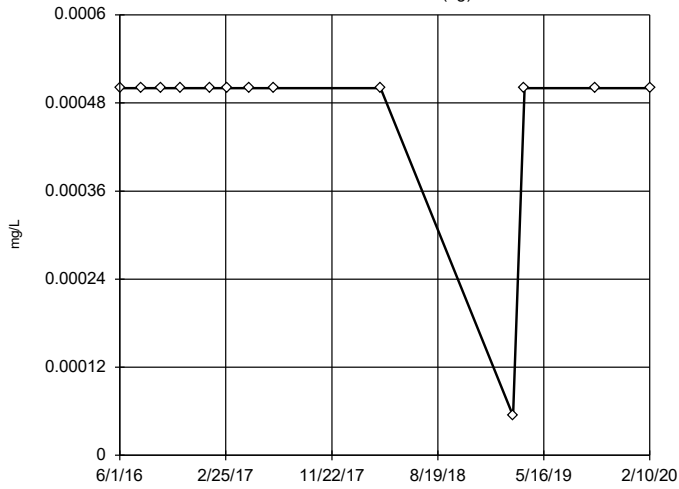
Tukey's Outlier Screening
YGWA-1D (bg)



n = 13
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 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

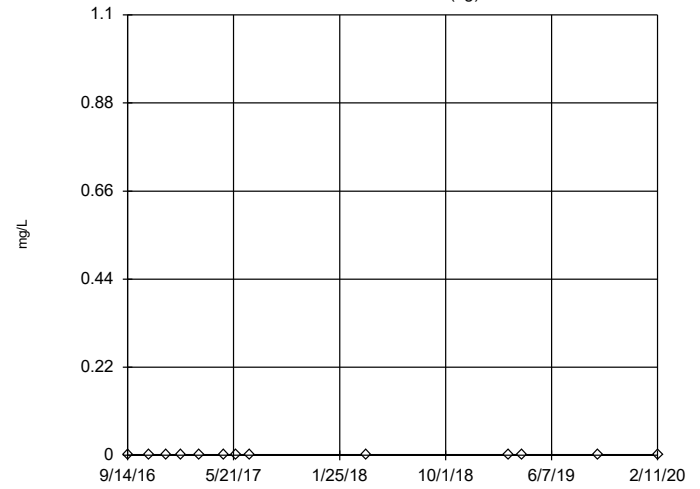
Tukey's Outlier Screening YGWA-11 (bg)



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

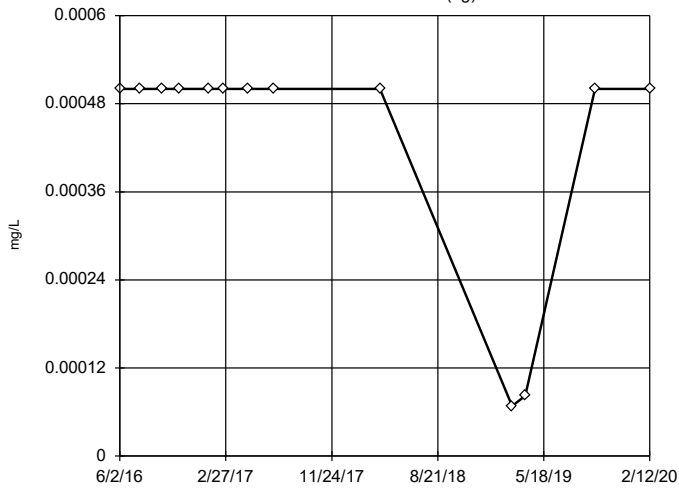
Tukey's Outlier Screening YGWA-21 (bg)



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

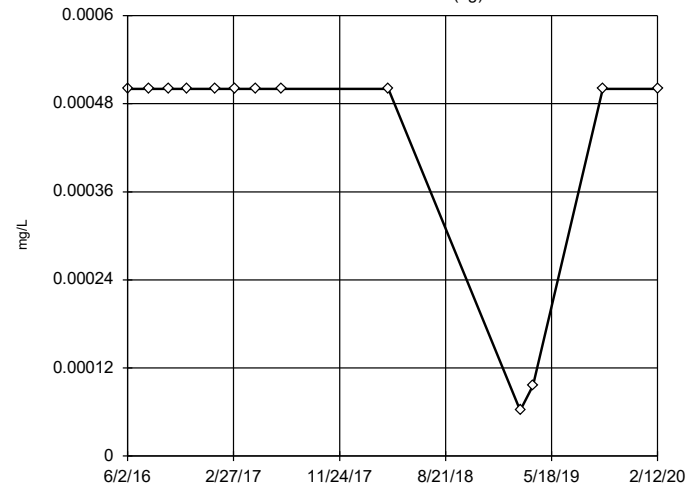
Tukey's Outlier Screening YGWA-30I (bg)



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

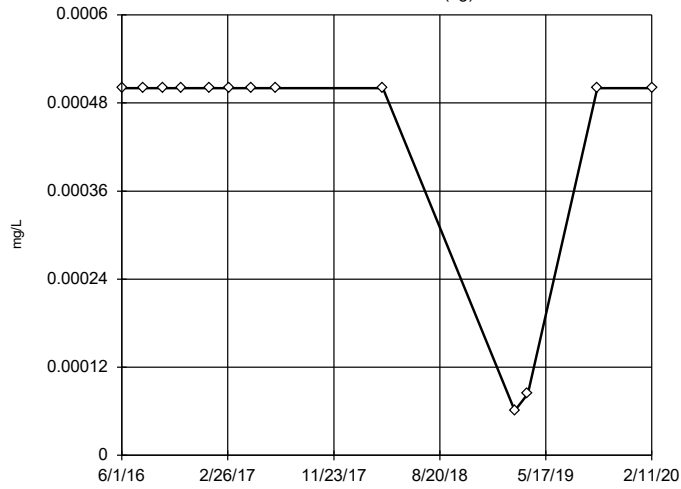
Tukey's Outlier Screening YGWA-3D (bg)



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

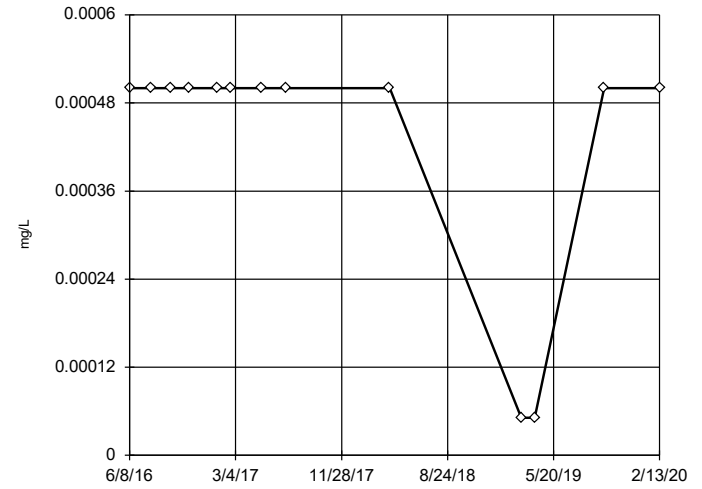
Tukey's Outlier Screening YGWA-3I (bg)



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

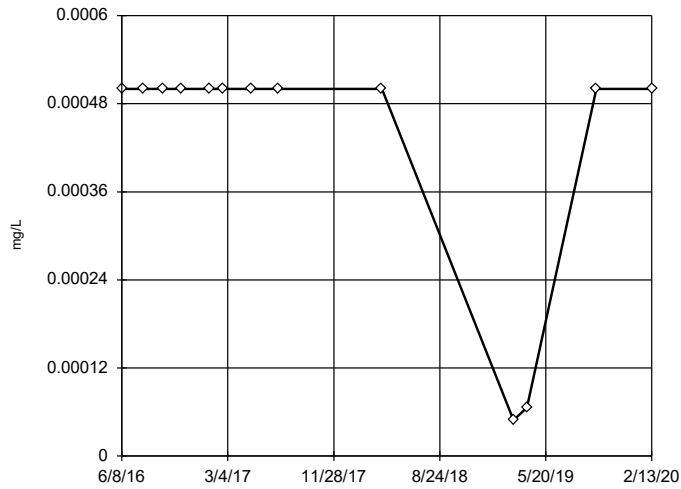
Tukey's Outlier Screening YGWC-26I



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

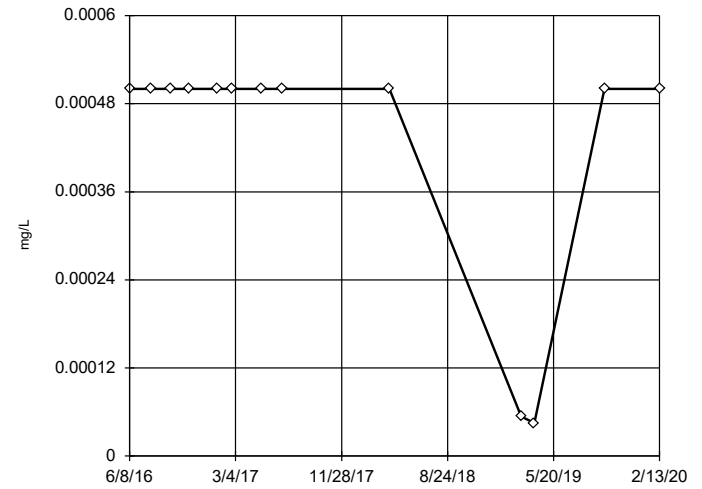
Tukey's Outlier Screening YGWC-26S



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

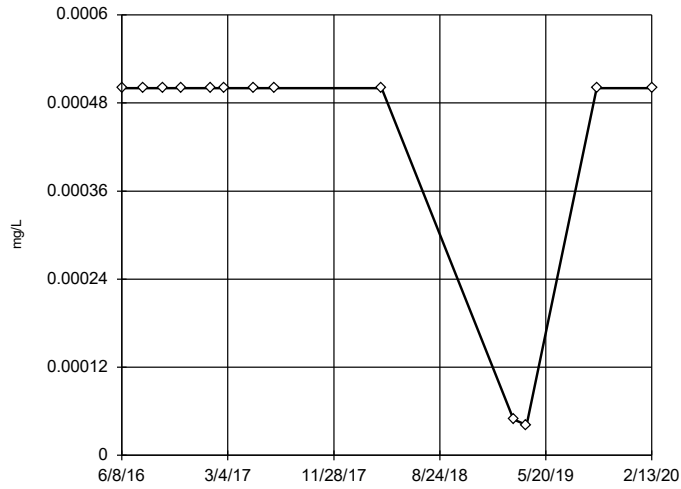
Tukey's Outlier Screening YGWC-27I



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

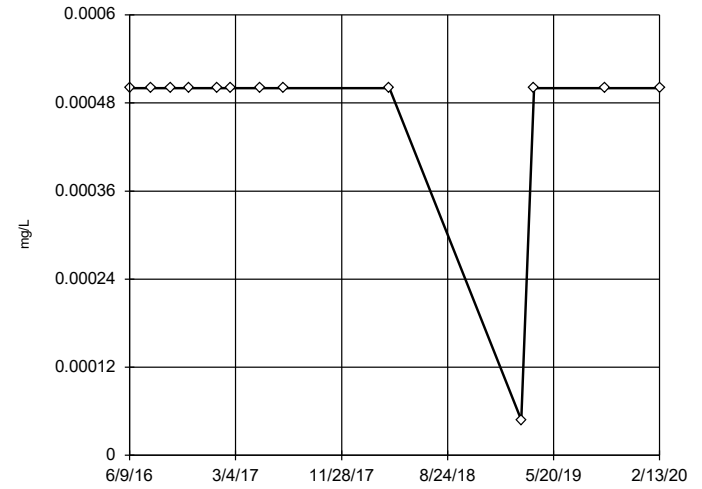
Tukey's Outlier Screening YGWC-27S



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

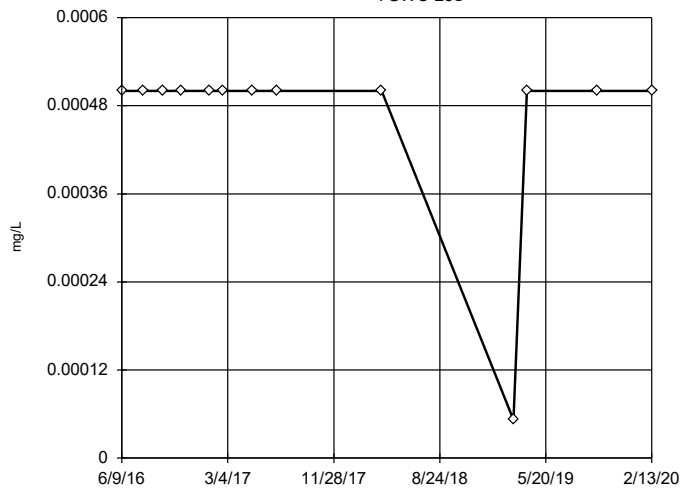
Tukey's Outlier Screening YGWC-28I



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

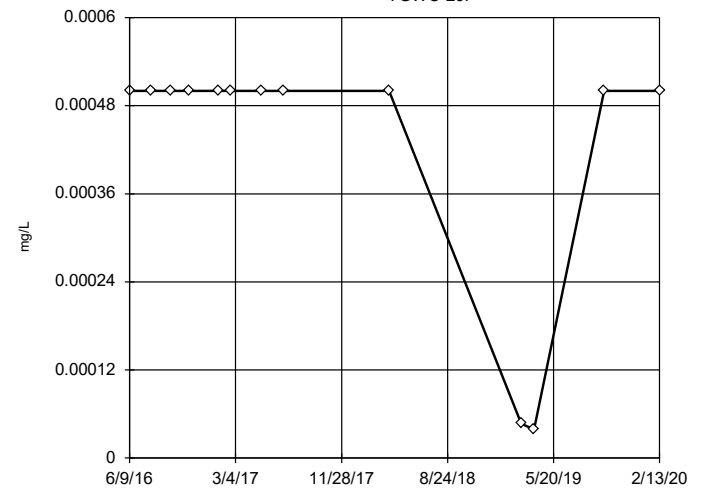
Tukey's Outlier Screening YGWC-28S



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

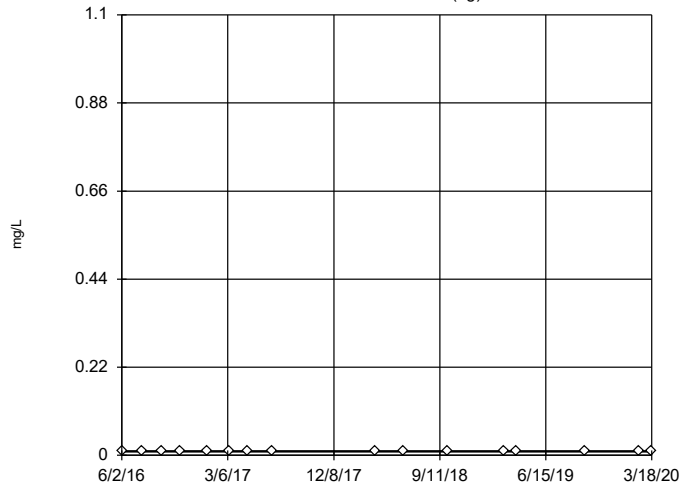
Tukey's Outlier Screening YGWC-29I



n = 13
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

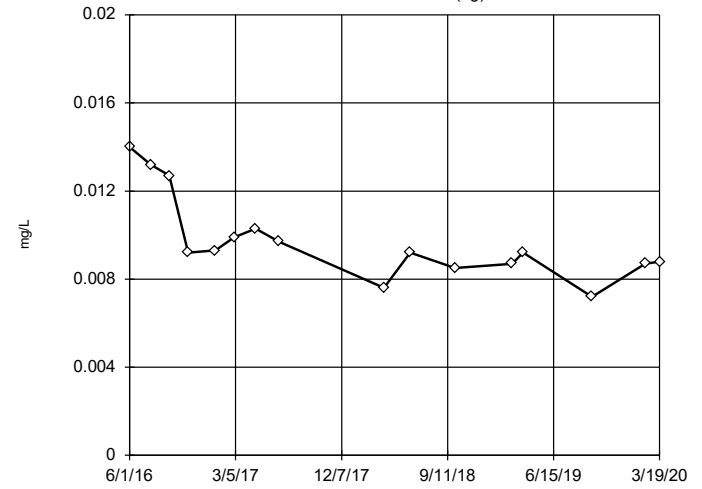
Tukey's Outlier Screening
YGWA-14S (bg)



n = 16
No outliers found.
Tukey's method selected by user.
The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

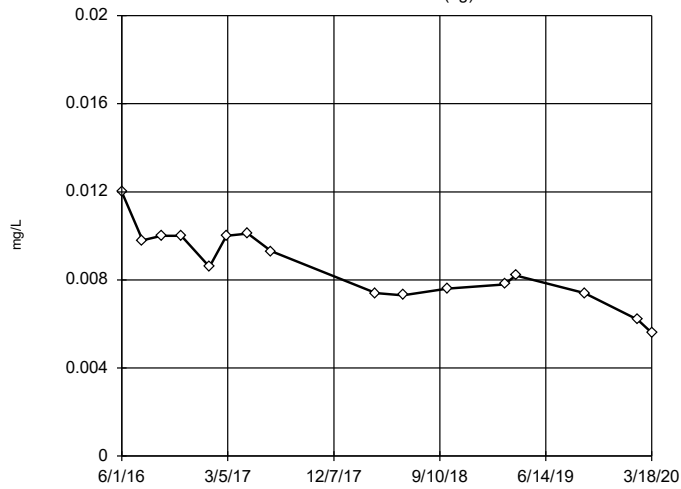
Tukey's Outlier Screening
YGWA-1D (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0143, low cutoff = 0.0045, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

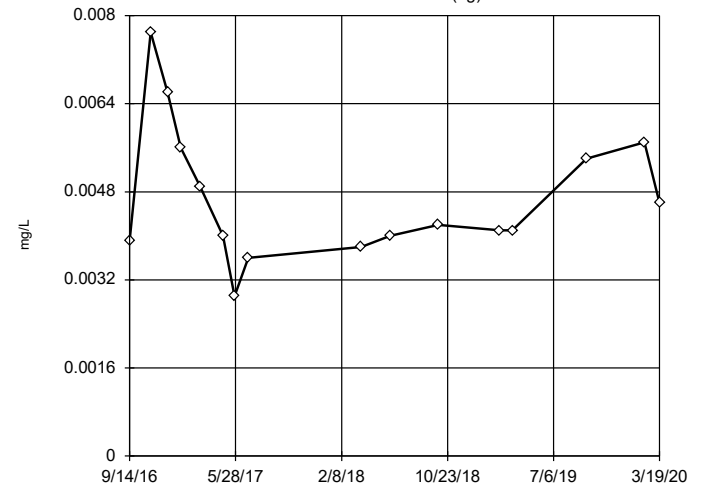
Tukey's Outlier Screening
YGWA-11 (bg)



n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0178, low cutoff = -0.0004, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening
YGWA-2I (bg)

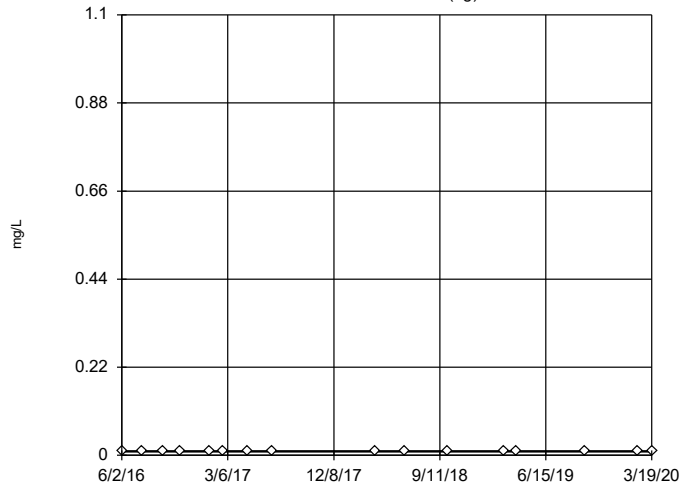


n = 16
No outliers found.
Tukey's method selected by user.
High cutoff = 0.01015, low cutoff = -0.0007, based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-30I (bg)

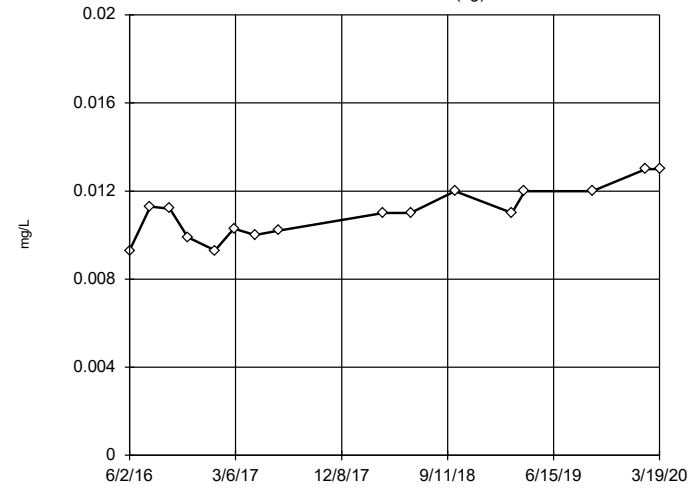


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3D (bg)

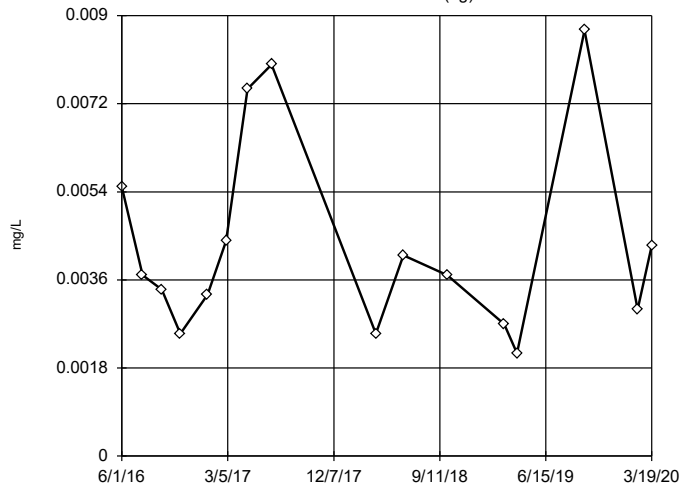


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0177,
 low cutoff = 0.0044, based
 on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-3I (bg)

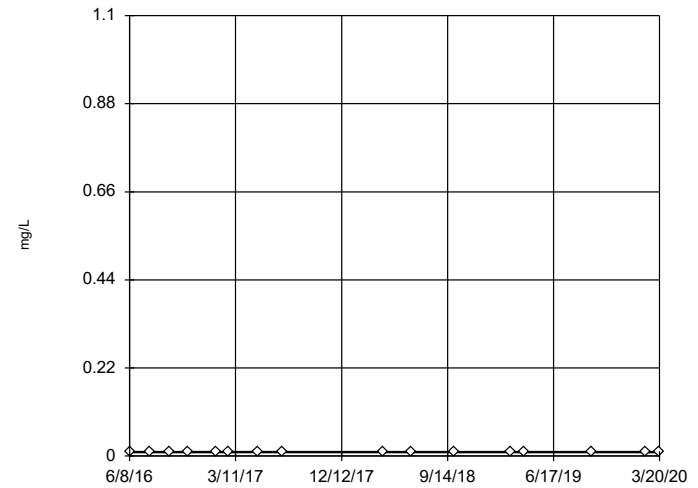


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.01125,
 low cutoff = -0.00345,
 based on IQR multiplier
 of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

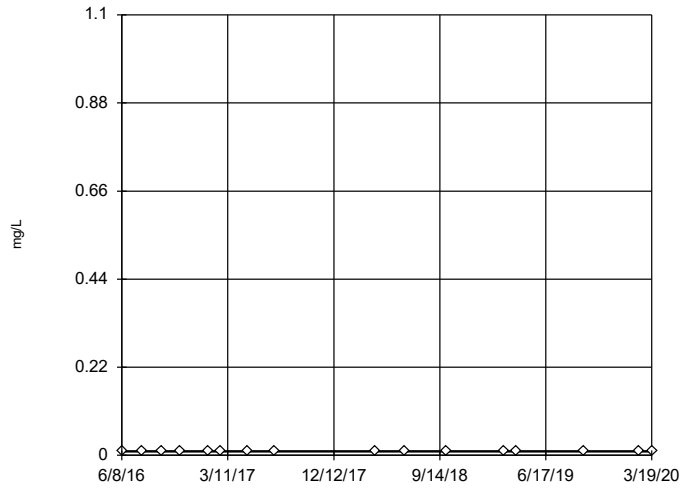
YGWC-26I



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

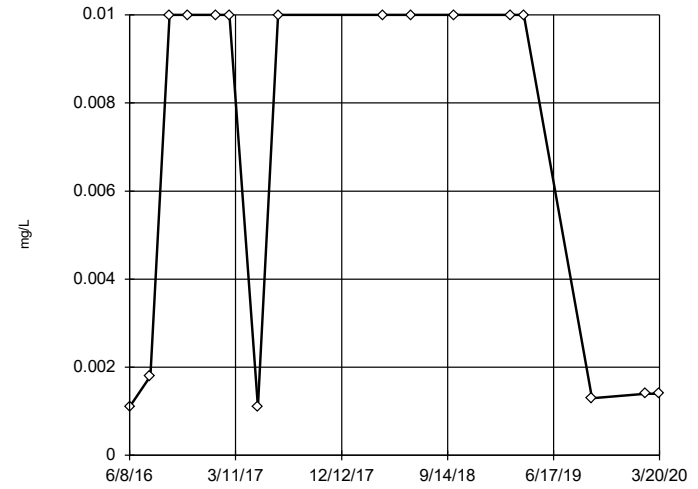
Tukey's Outlier Screening YGWC-26S



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

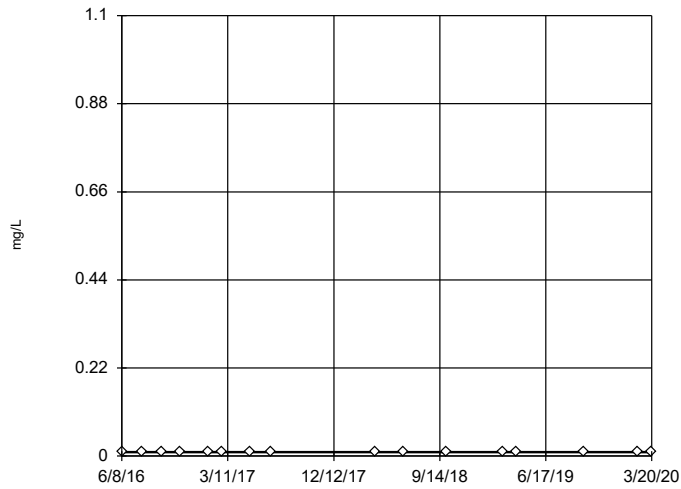
Tukey's Outlier Screening YGWC-27I



n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0358,
 low cutoff = -0.0244,
 based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

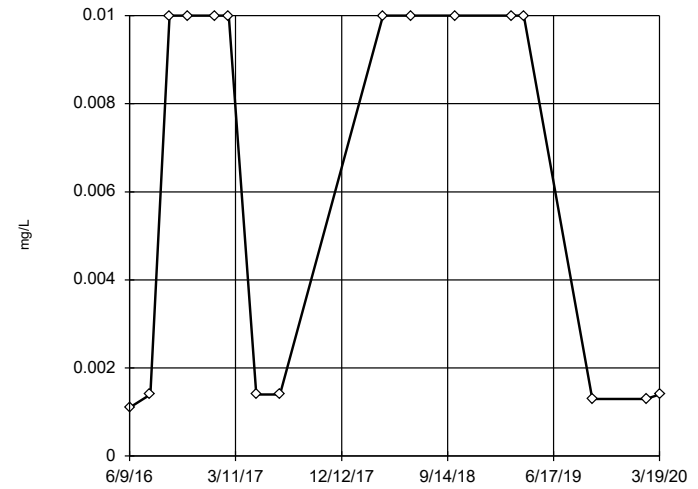
Tukey's Outlier Screening YGWC-27S



n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWC-28I

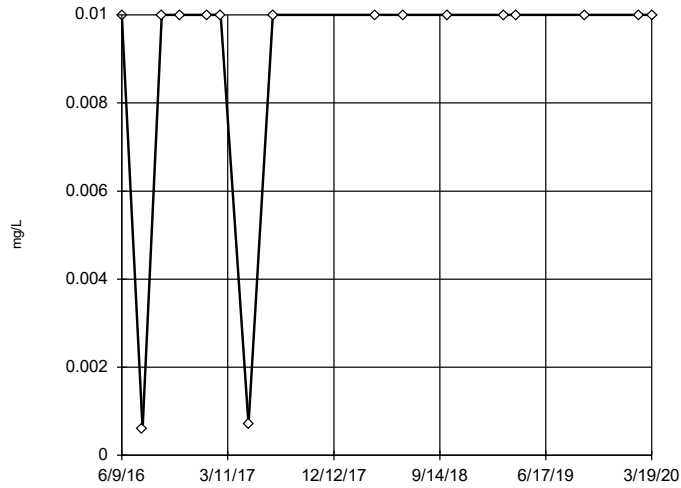


n = 16
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0358,
 low cutoff = -0.0244,
 based on IQR multiplier of 3.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-28S

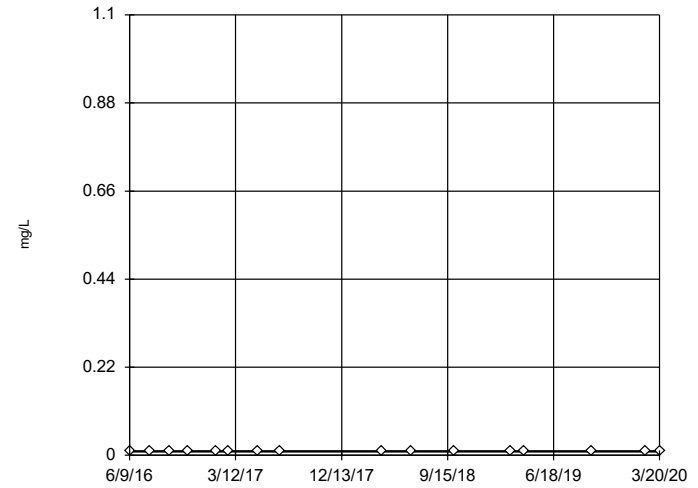


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWC-29I

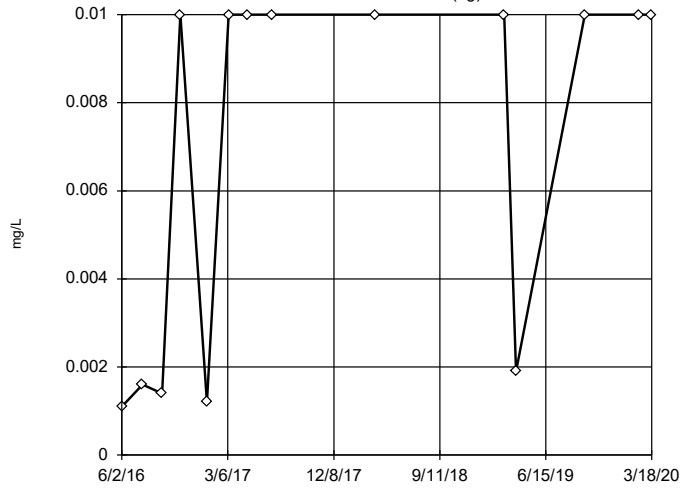


n = 16
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

Constituent: Molybdenum Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

YGWA-14S (bg)

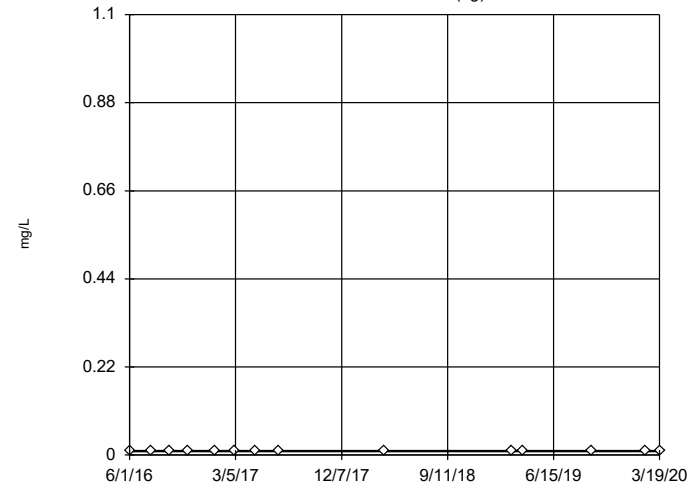


n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0355,
 low cutoff = -0.024, based
 on IQR multiplier of 3.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening

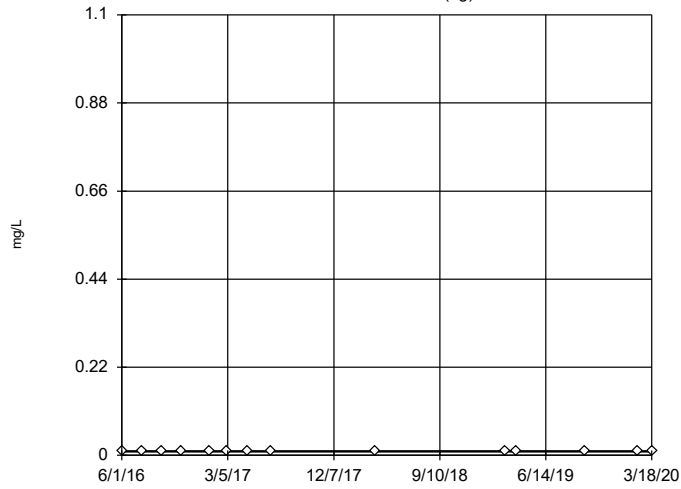
YGWA-1D (bg)



n = 14
 No outliers found.
 Tukey's method selected by user.
 The results were invalidated, because the lower and upper quartiles are equal.

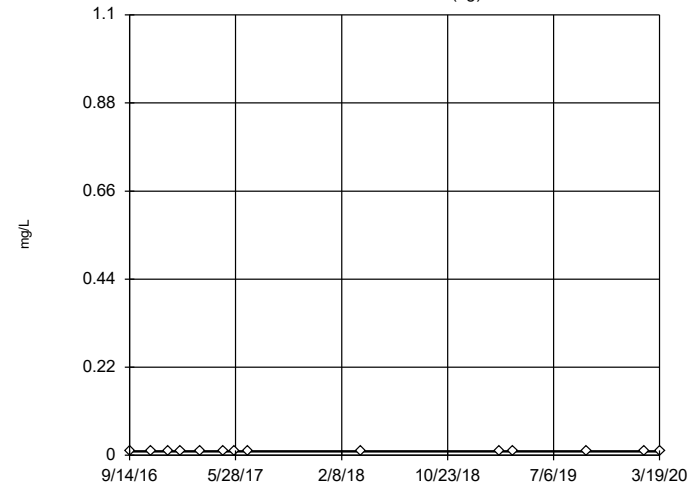
Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-11 (bg)



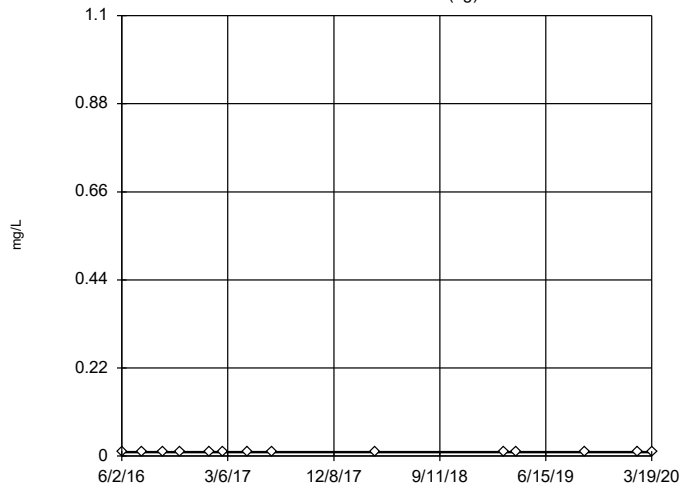
Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-21 (bg)



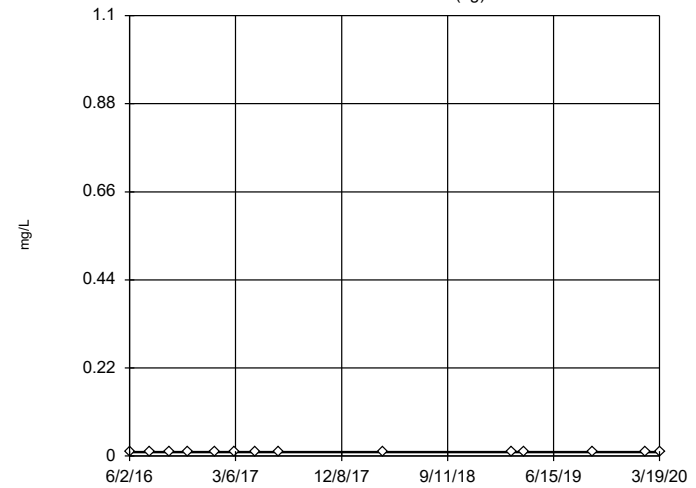
Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-30I (bg)



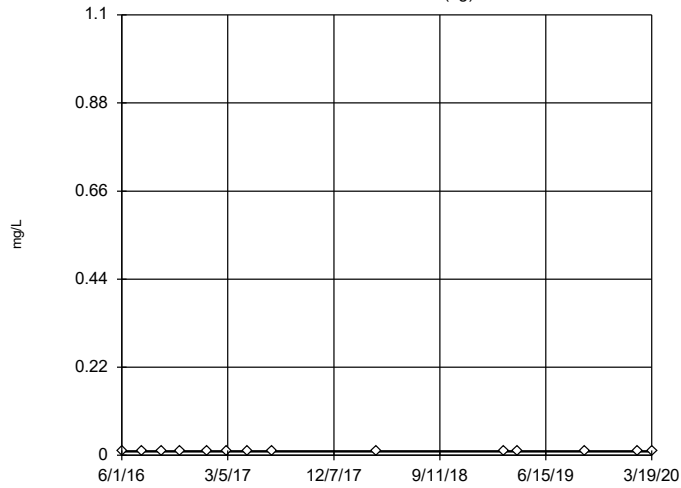
Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWA-3D (bg)



Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

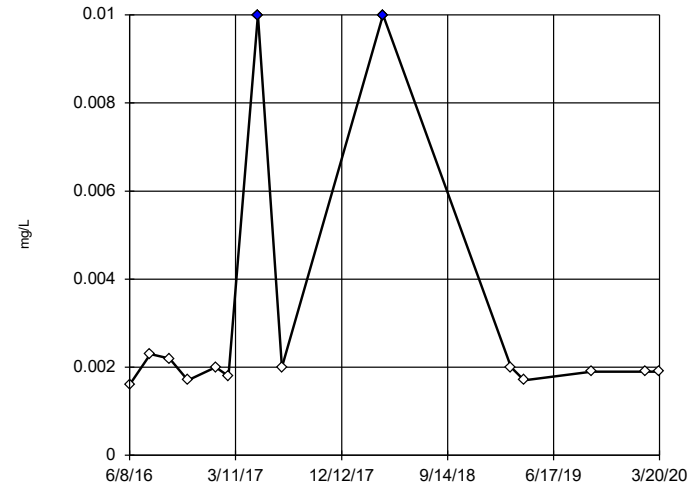
Tukey's Outlier Screening YGWA-3I (bg)



n = 14
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

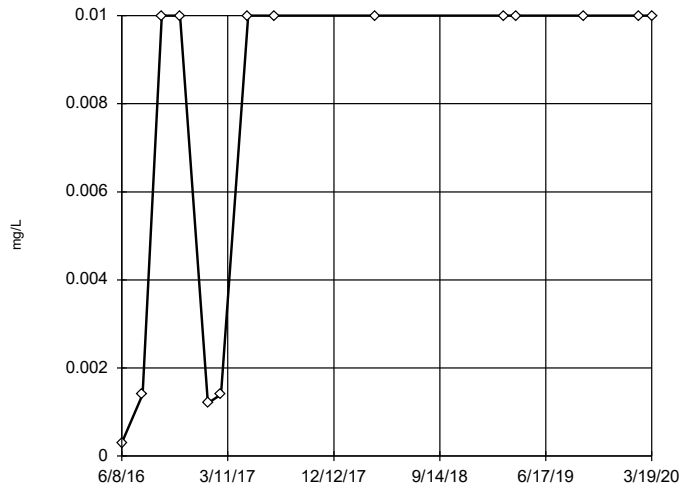
Tukey's Outlier Screening YGWC-26I



n = 14
 Outliers are drawn as solid.
 Tukey's method selected by user.
 High cutoff = 0.00375,
 low cutoff = 0.00025,
 based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

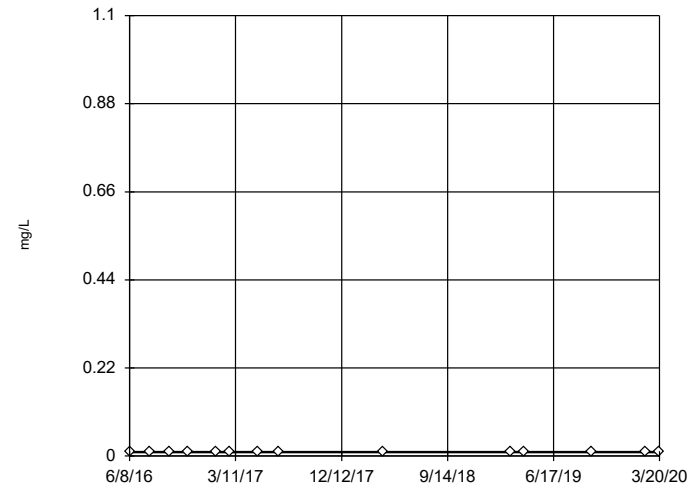
Tukey's Outlier Screening YGWC-26S



n = 14
 No outliers found.
 Tukey's method selected by user.
 High cutoff = 0.0358,
 low cutoff = -0.0244,
 based on IQR multiplier of 3.

Constituent: Selenium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

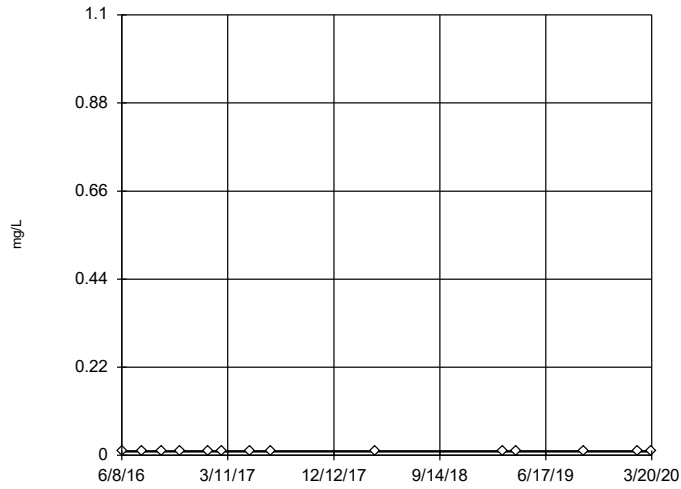
Tukey's Outlier Screening YGWC-27I



n = 14
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

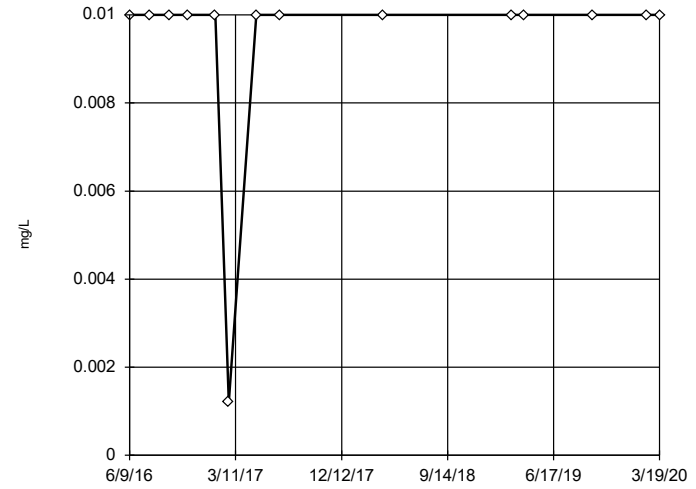
Tukey's Outlier Screening YGWC-27S



n = 14
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

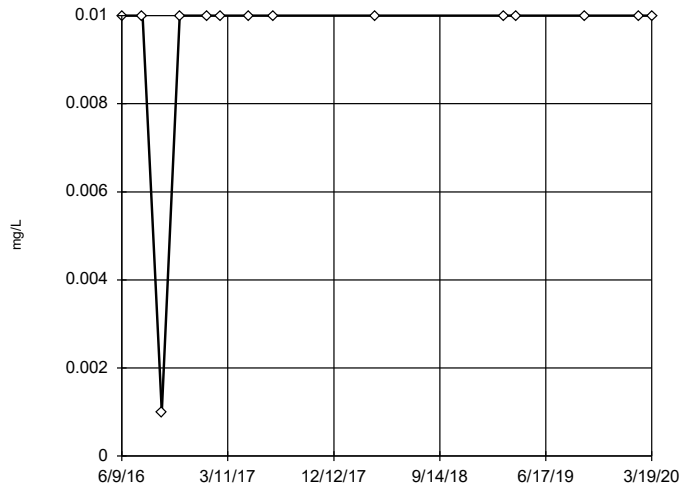
Tukey's Outlier Screening YGWC-28I



n = 14
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

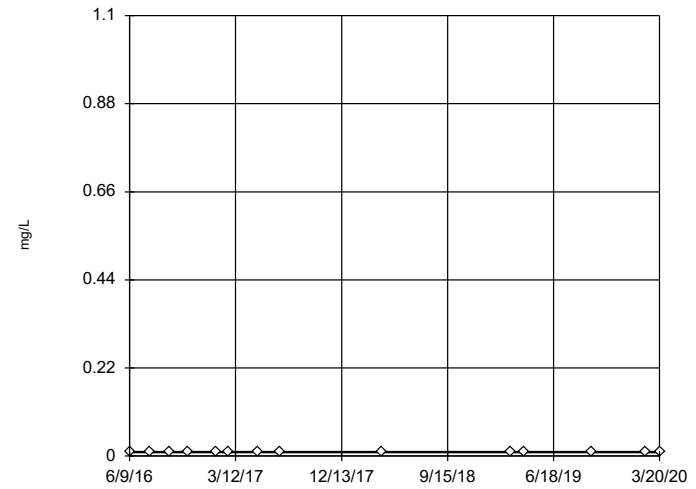
Tukey's Outlier Screening YGWC-28S



n = 14
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

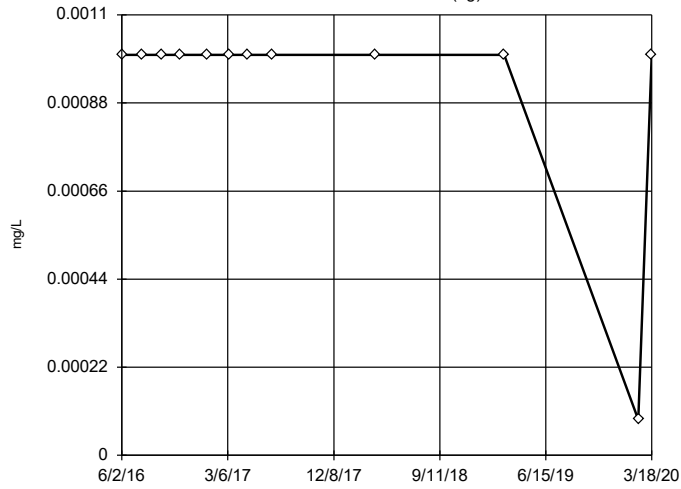
Tukey's Outlier Screening YGWC-29I



n = 14
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

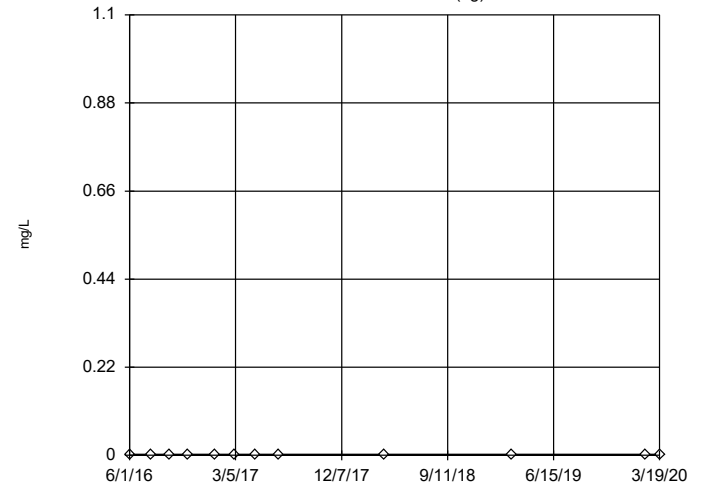
Tukey's Outlier Screening YGWA-14S (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

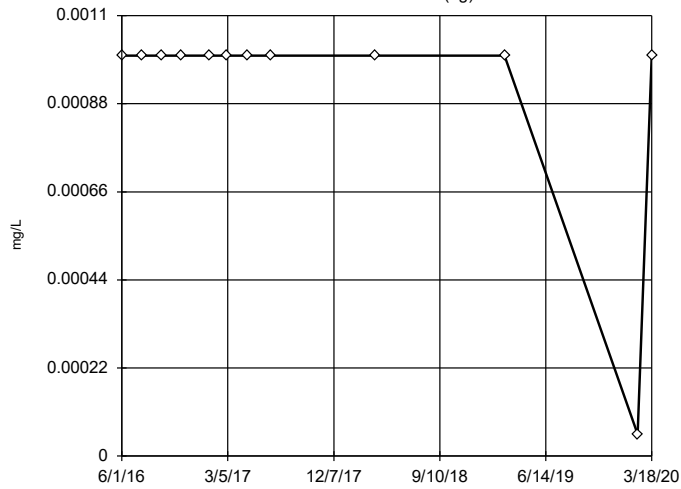
Tukey's Outlier Screening YGWA-1D (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

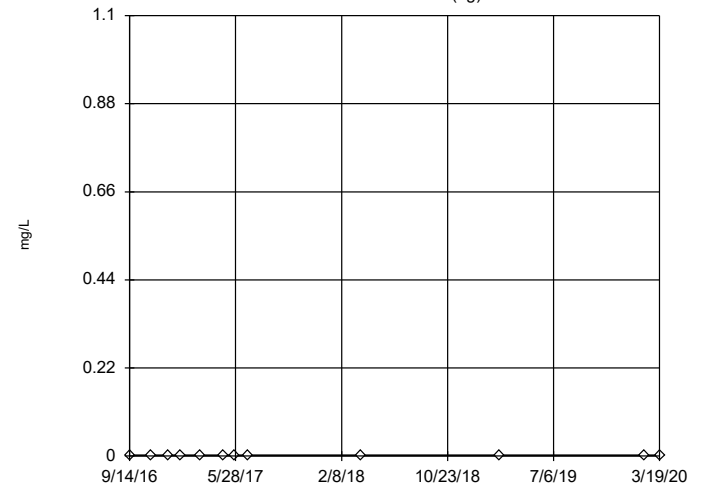
Tukey's Outlier Screening YGWA-11 (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

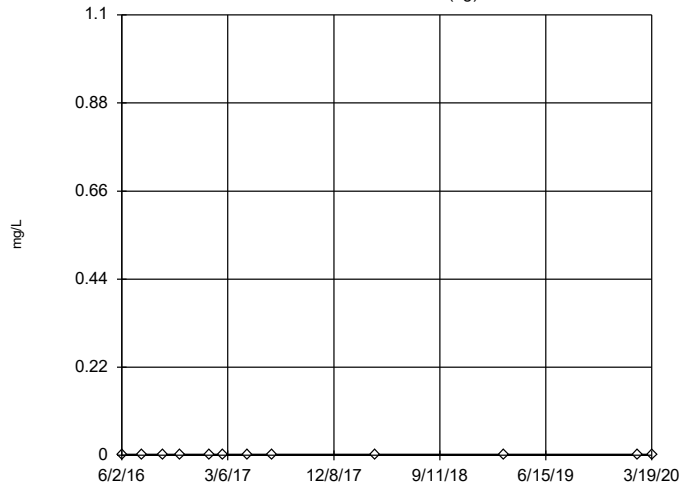
Tukey's Outlier Screening YGWA-2I (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

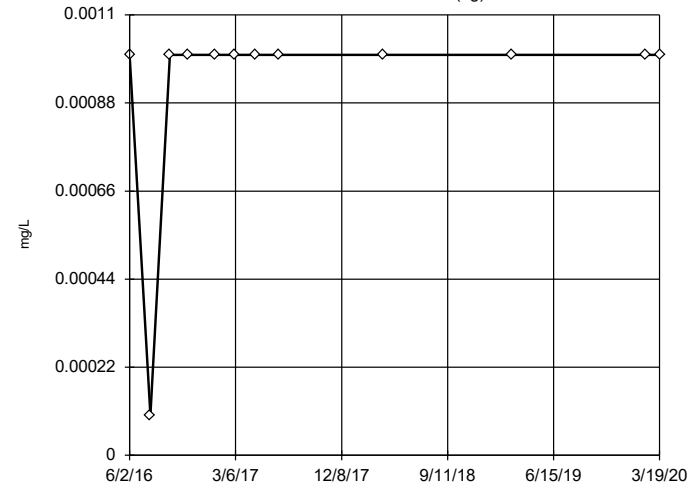
Tukey's Outlier Screening
YGWA-30I (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

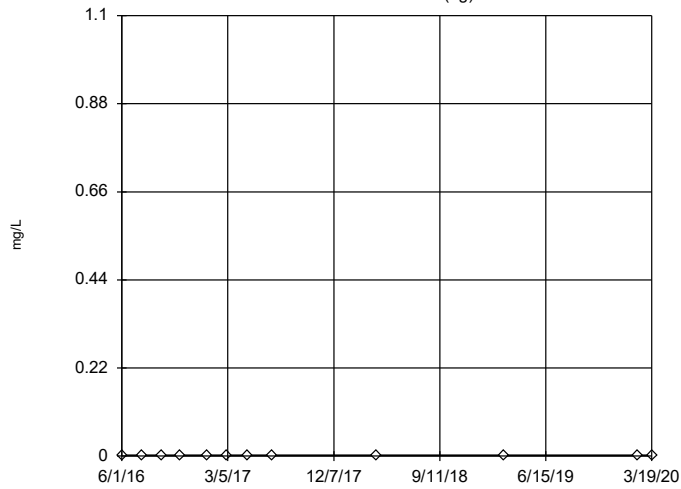
Tukey's Outlier Screening
YGWA-3D (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

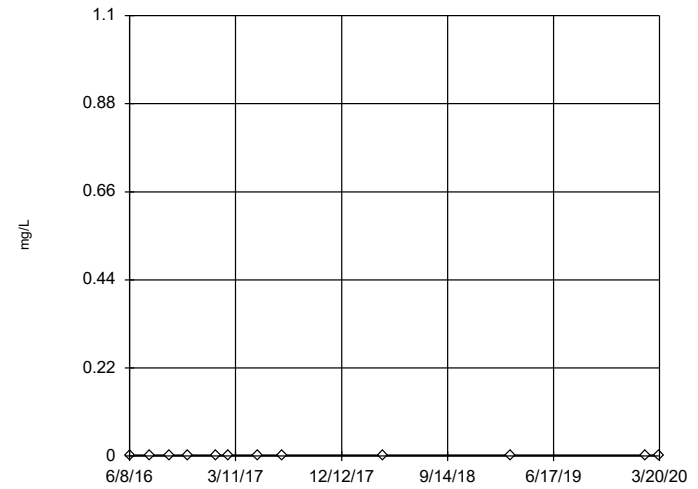
Tukey's Outlier Screening
YGWA-3I (bg)



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

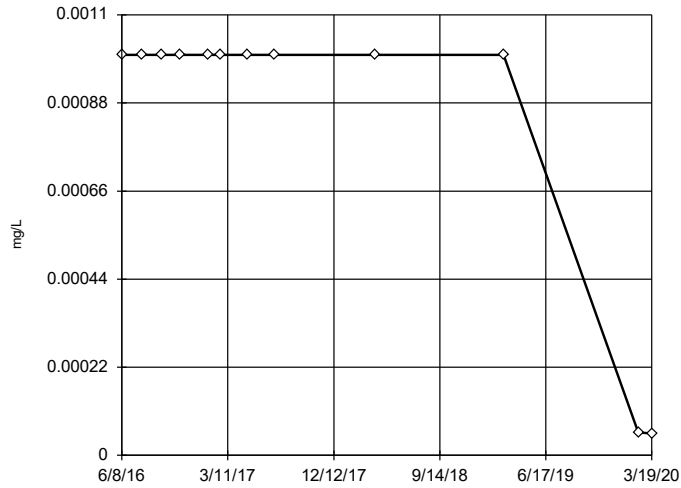
Tukey's Outlier Screening
YGWC-26I



n = 12
 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 5/12/2020 3:26 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

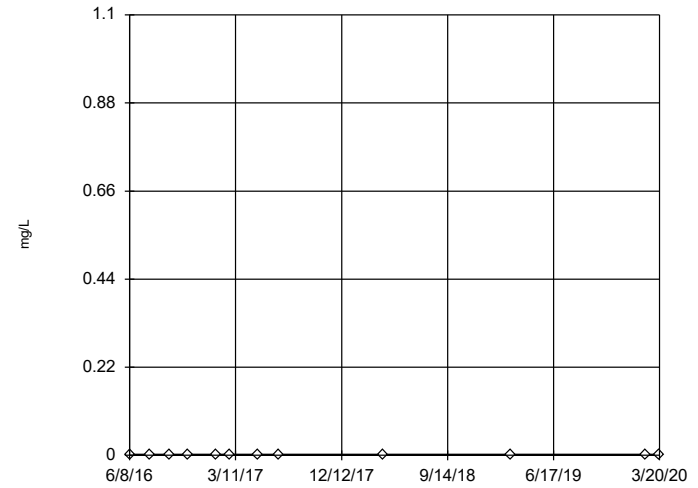
Tukey's Outlier Screening
YGWC-26S



n = 12
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 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

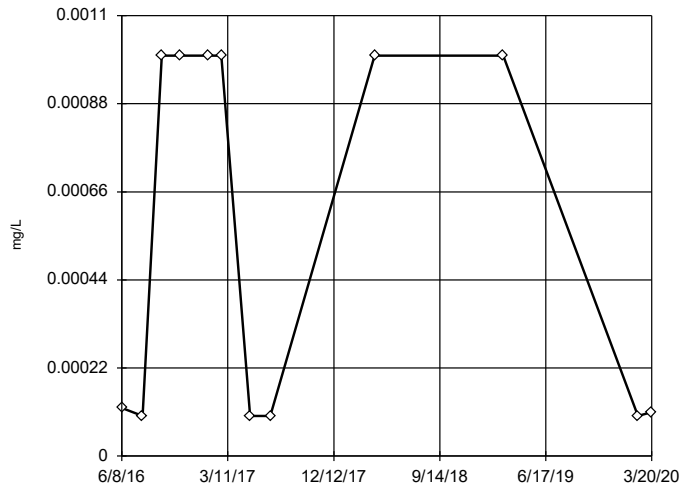
Tukey's Outlier Screening
YGWC-27I



n = 12
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 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

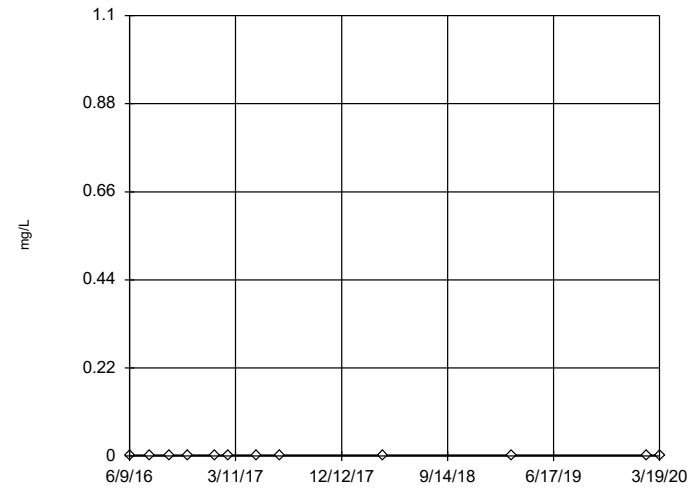
Tukey's Outlier Screening
YGWC-27S



n = 12
No outliers found.
Tukey's method selected by user.
High cutoff = 0.0037,
low cutoff = -0.0026,
based on IQR multiplier of 3.

Constituent: Thallium Analysis Run 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

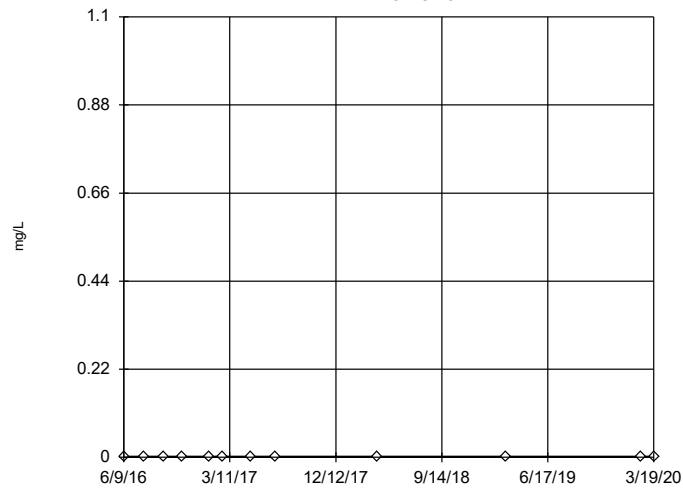
Tukey's Outlier Screening
YGWC-28I



n = 12
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 5/12/2020 3:26 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

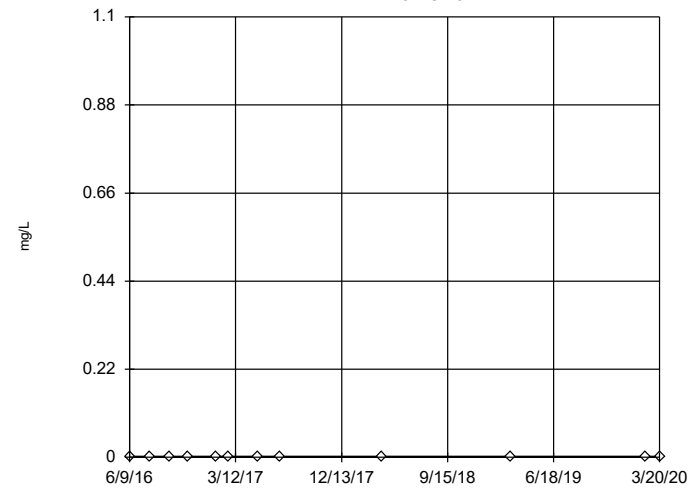
Tukey's Outlier Screening YGWC-28S



n = 12
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 5/12/2020 3:27 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Tukey's Outlier Screening YGWC-29I



n = 12
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 5/12/2020 3:27 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE D.

Upgradient Wells Appendix III Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:38 PM

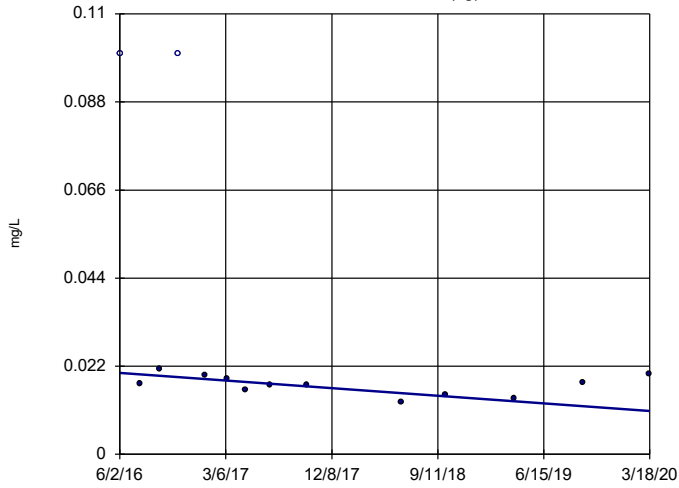
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	YGWA-14S (bg)	-0.05271	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1D (bg)	1.11	48	44	Yes	14	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.02531	-61	-58	Yes	17	5.882	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-1D (bg)	-0.1114	-61	-58	Yes	17	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.261	51	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.7245	46	44	Yes	14	0	n/a	n/a	0.02	NP

Upgradient Wells Appendix III Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:38 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.002489	-37	-44	No	14	14.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-1D (bg)	-0.001025	-26	-44	No	14	14.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-1I (bg)	0	-33	-44	No	14	64.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-2I (bg)	0	-26	-44	No	14	71.43	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-44	No	14	85.71	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-3D (bg)	0	-13	-44	No	14	57.14	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-3I (bg)	0	-13	-44	No	14	92.86	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.05271	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1D (bg)	1.11	48	44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1025	-37	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-2I (bg)	0.9579	31	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-30I (bg)	-0.0134	-7	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-3D (bg)	1.219	40	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-3I (bg)	0.4381	18	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-14S (bg)	0	6	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-11	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-1I (bg)	0	-5	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03701	-16	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-30I (bg)	0	4	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.07067	-33	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.04953	-37	-44	No	14	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-14S (bg)	0	14	58	No	17	94.12	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-1D (bg)	-0.004818	-21	-58	No	17	35.29	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-1I (bg)	0	17	58	No	17	88.24	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-2I (bg)	0	6	58	No	17	23.53	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-30I (bg)	0	14	58	No	17	94.12	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.02531	-61	-58	Yes	17	5.882	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3I (bg)	-0.01022	-25	-58	No	17	29.41	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-14S (bg)	-0.01066	-20	-58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-1D (bg)	-0.1114	-61	-58	Yes	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-1I (bg)	-0.04218	-52	-58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-2I (bg)	-0.03531	-21	-58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-30I (bg)	0.005933	5	58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-3D (bg)	-0.0353	-29	-58	No	17	0	n/a	n/a	0.02	NP
pH (S.U.)	YGWA-3I (bg)	-0.07822	-46	-58	No	17	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.3425	40	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.261	51	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.1237	-7	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-2I (bg)	0	0	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.05321	-7	-44	No	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.7245	46	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6413	31	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	1.727	9	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	5.856	18	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-1I (bg)	-0.6315	-3	-44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-2I (bg)	-3.471	-25	-44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-30I (bg)	4.021	23	44	No	14	14.29	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	4.214	14	44	No	14	0	n/a	n/a	0.02	NP
Total Dissolved Solids (mg/L)	YGWA-3I (bg)	1.372	6	44	No	14	0	n/a	n/a	0.02	NP

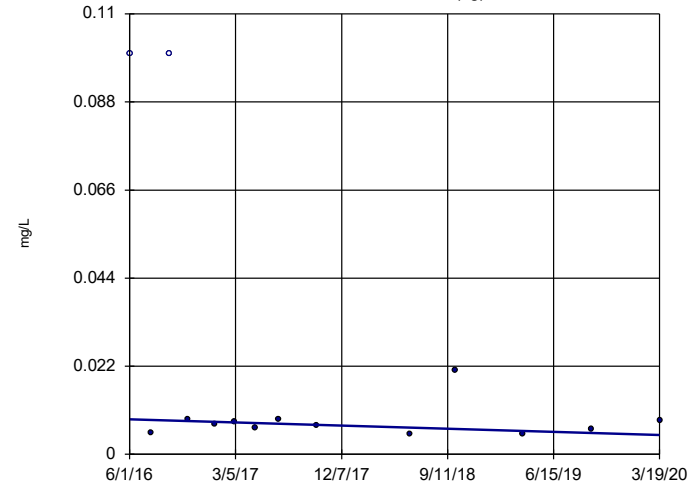
Sen's Slope Estimator
 YGWA-14S (bg)



n = 14
 Slope = -0.002489
 units per year.
 Mann-Kendall
 statistic = -37
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

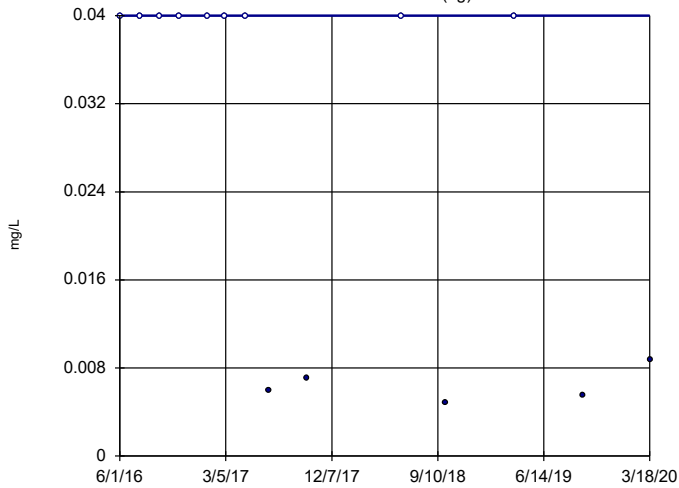
Sen's Slope Estimator
 YGWA-1D (bg)



n = 14
 Slope = -0.001025
 units per year.
 Mann-Kendall
 statistic = -26
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

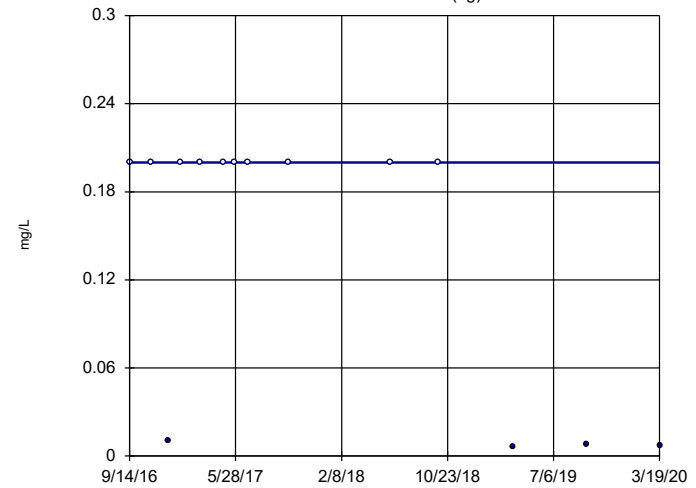
Sen's Slope Estimator
 YGWA-11 (bg)



n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -33
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWA-2I (bg)

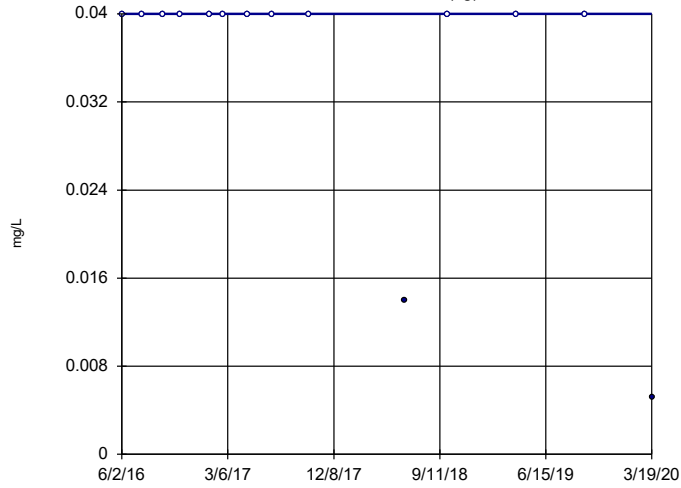


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -26
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

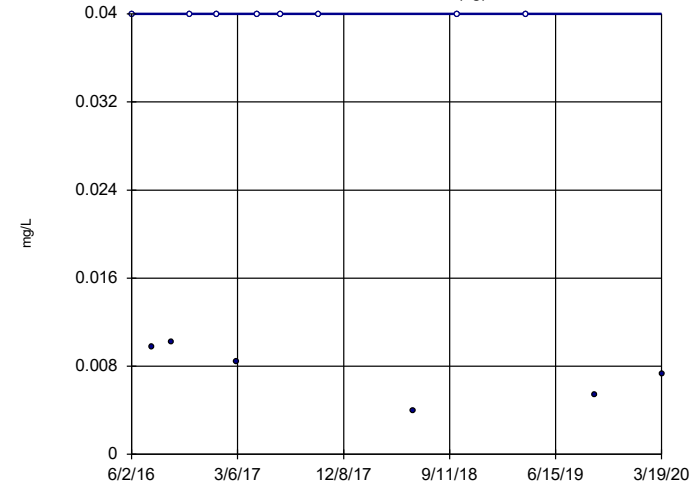


n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = -19
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

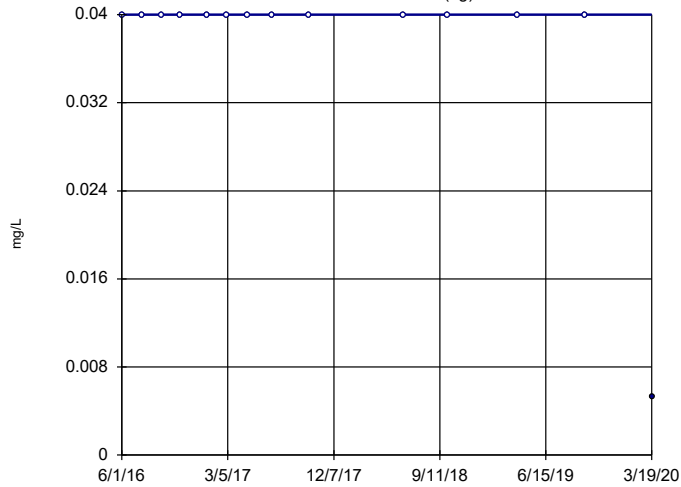


n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = -13
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

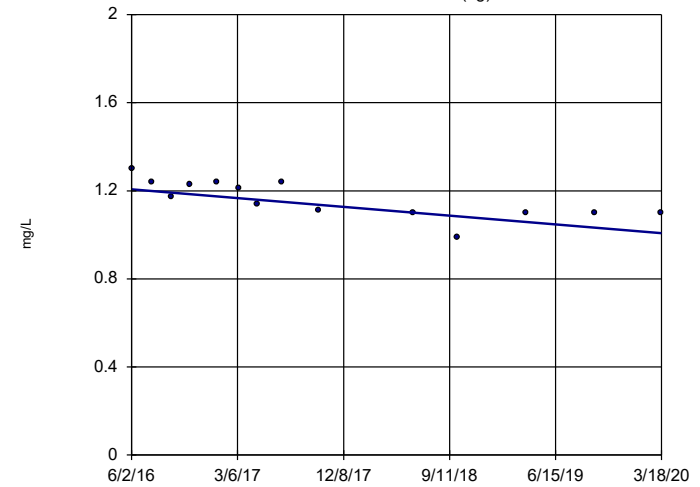


n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = -13
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Boron Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

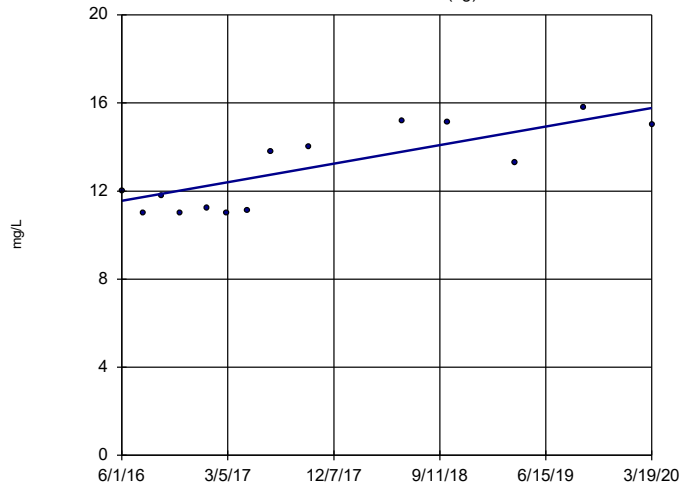


n = 14
Slope = -0.05271
units per year.
Mann-Kendall
statistic = -60
critical = -44
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)

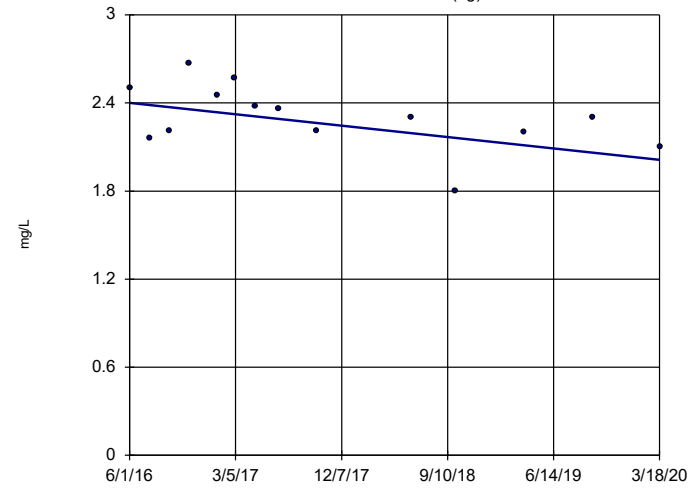


n = 14
 Slope = 1.11 units per year.
 Mann-Kendall statistic = 48
 critical = 44
 Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1I (bg)

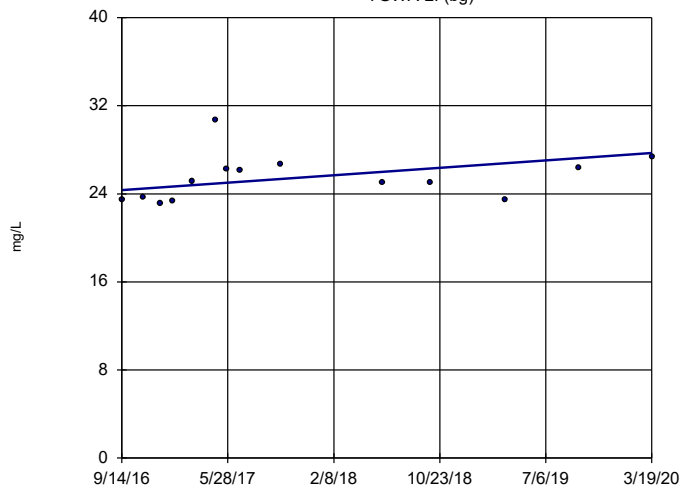


n = 14
 Slope = -0.1025 units per year.
 Mann-Kendall statistic = -37
 critical = -44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-2I (bg)

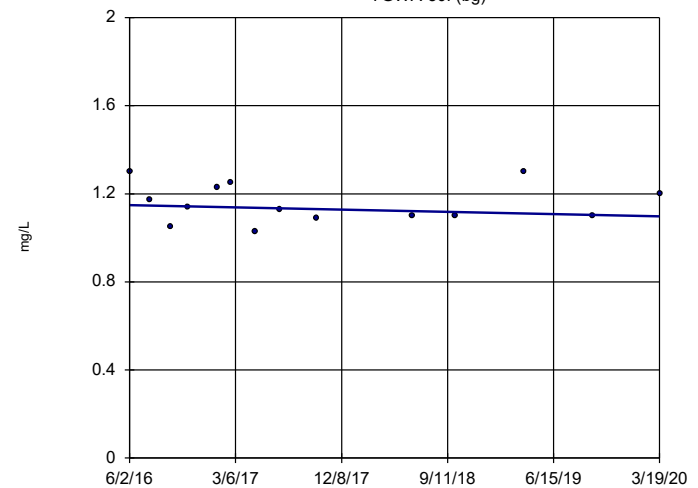


n = 14
 Slope = 0.9579 units per year.
 Mann-Kendall statistic = 31
 critical = 44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

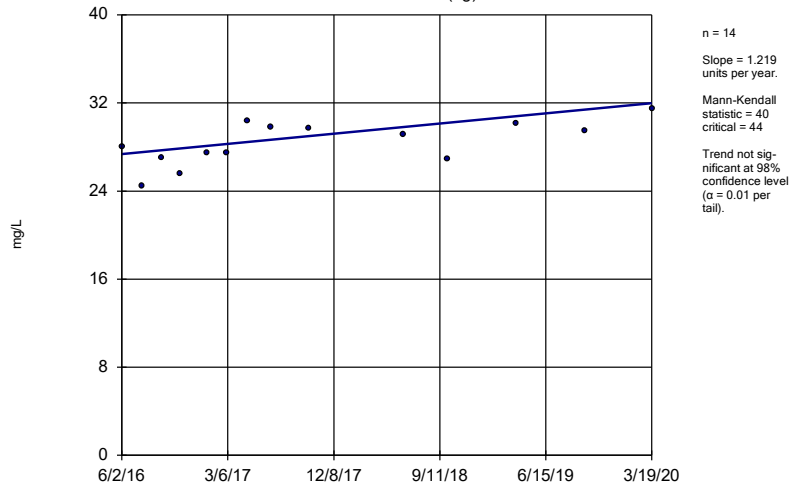


n = 14
 Slope = -0.0134 units per year.
 Mann-Kendall statistic = -7
 critical = -44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

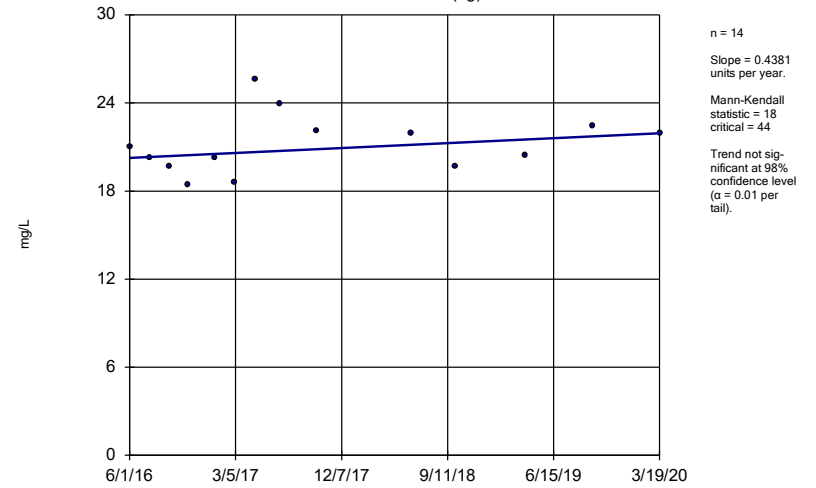
YGWA-3D (bg)



Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

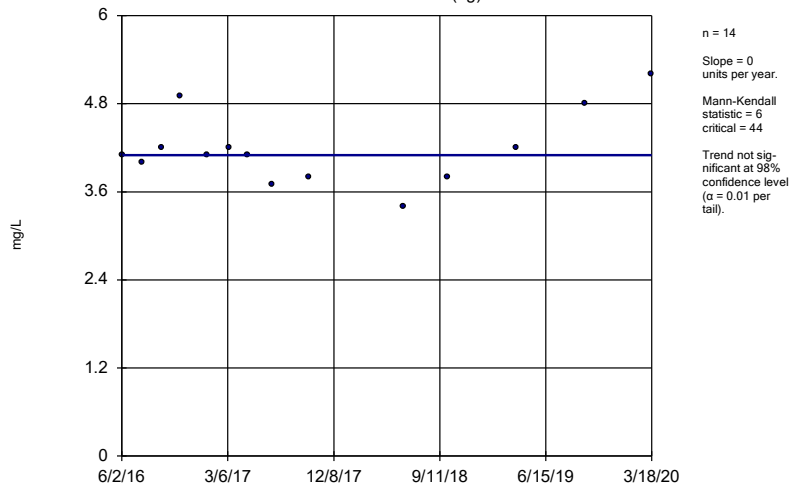
YGWA-3I (bg)



Constituent: Calcium Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

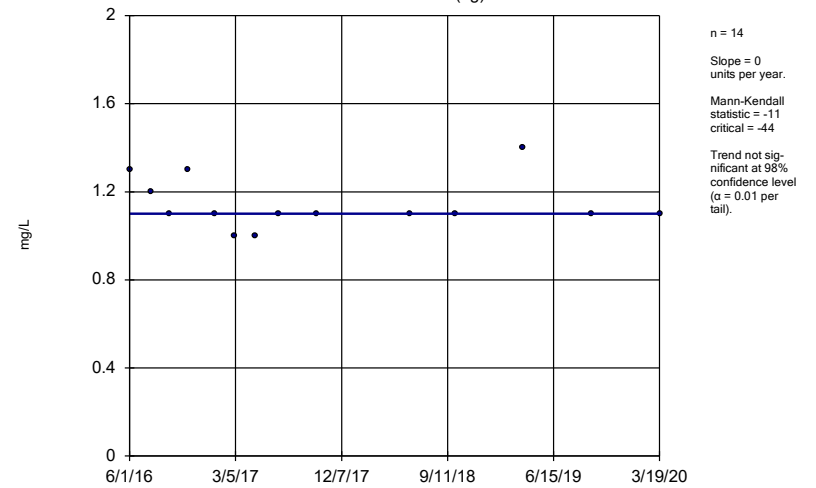
YGWA-14S (bg)



Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

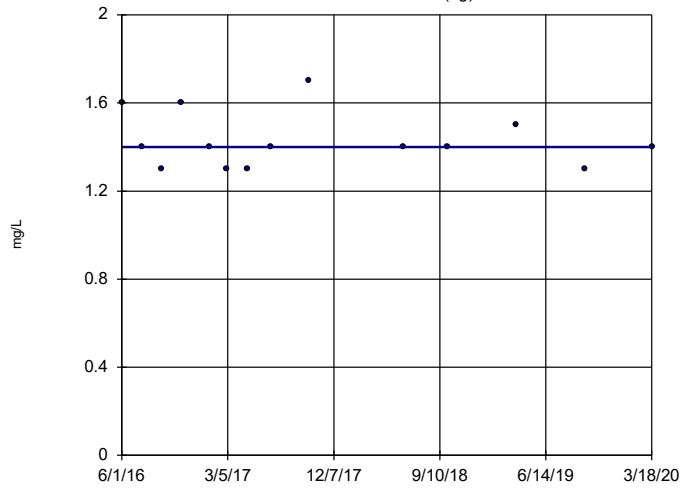
YGWA-1D (bg)



Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-11 (bg)

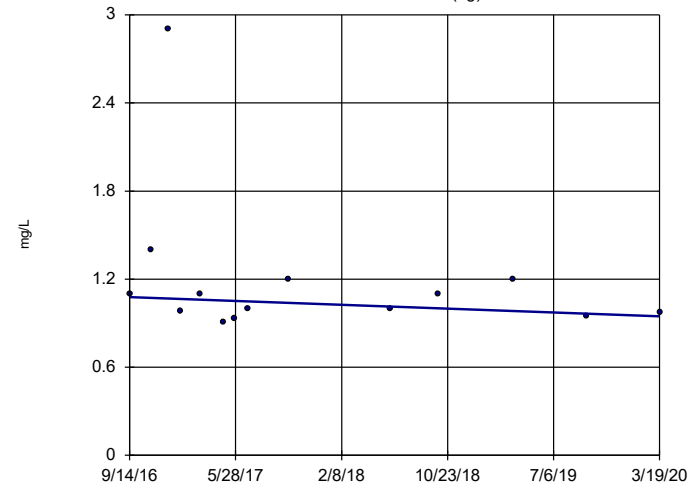


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -5
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21 (bg)

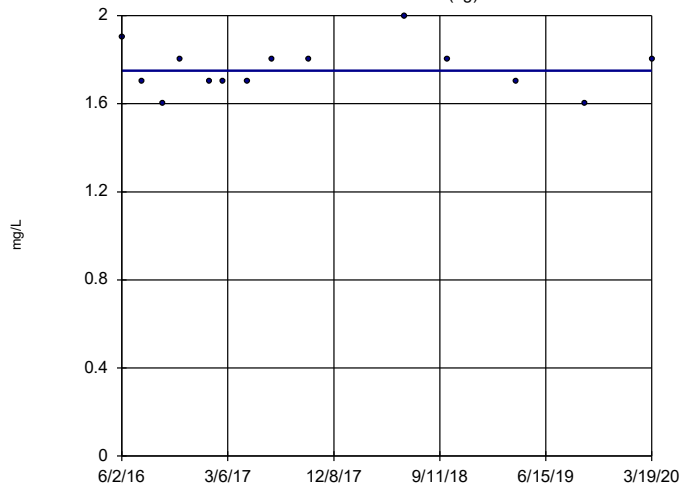


n = 14
 Slope = -0.03701
 units per year.
 Mann-Kendall
 statistic = -16
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

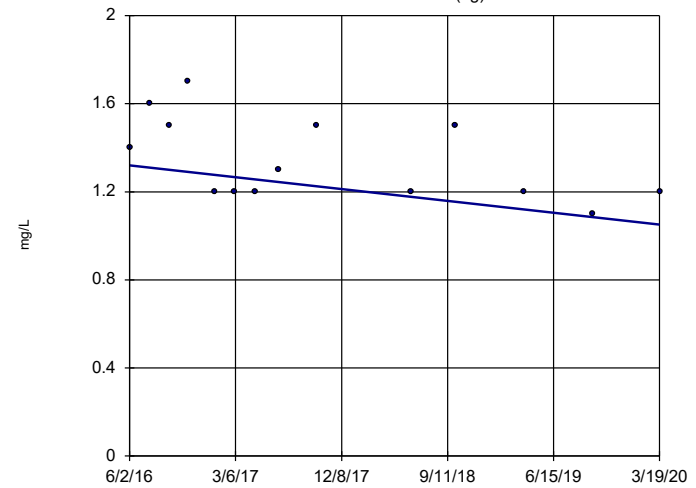


n = 14
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 4
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

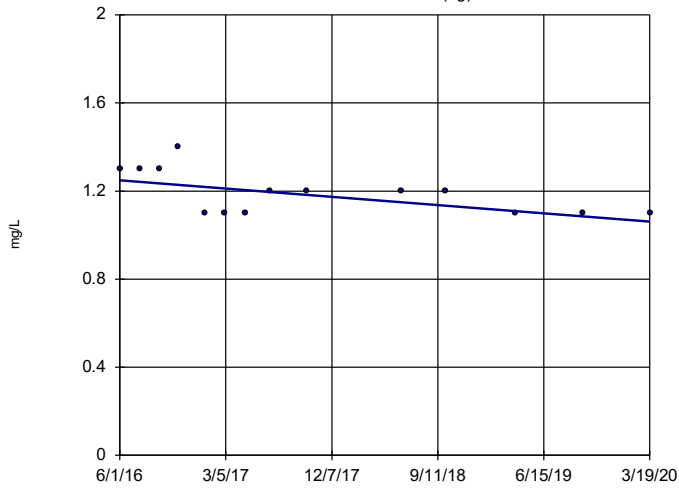


n = 14
 Slope = -0.07067
 units per year.
 Mann-Kendall
 statistic = -33
 critical = -44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)



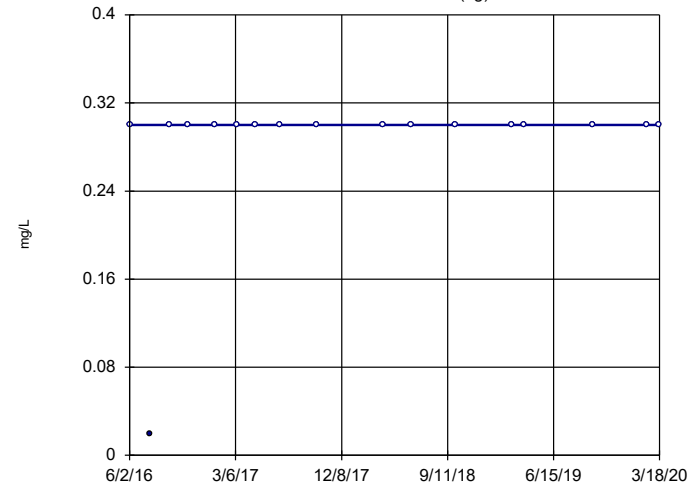
n = 14
Slope = -0.04953
units per year.
Mann-Kendall
statistic = -37
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Chloride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

YGWA-14S (bg)

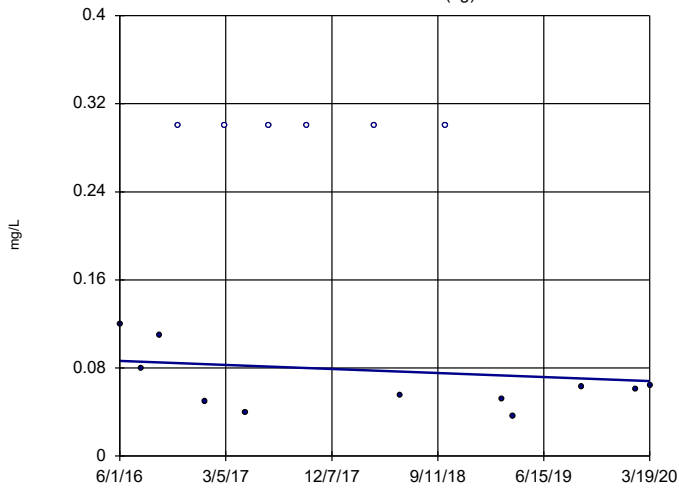


n = 17
Slope = 0
units per year.
Mann-Kendall
statistic = 14
critical = 58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)

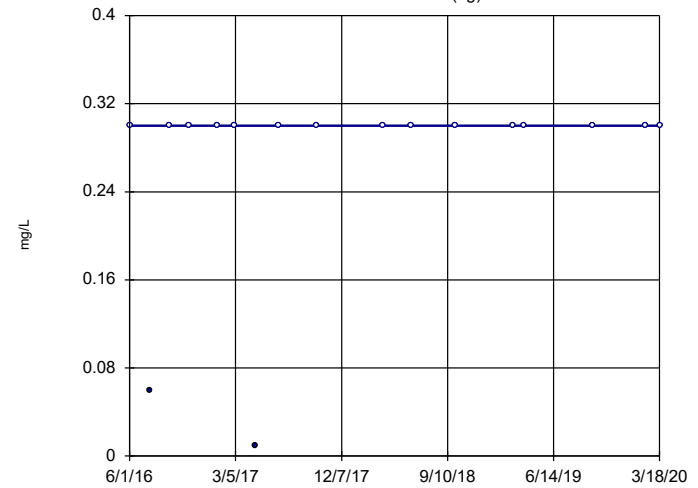


n = 17
Slope = -0.004818
units per year.
Mann-Kendall
statistic = -21
critical = -58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

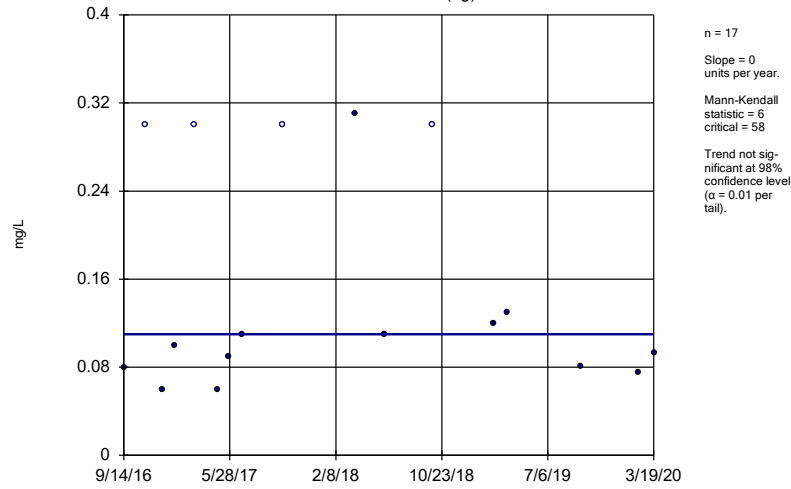
YGWA-1I (bg)



n = 17
Slope = 0
units per year.
Mann-Kendall
statistic = 17
critical = 58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

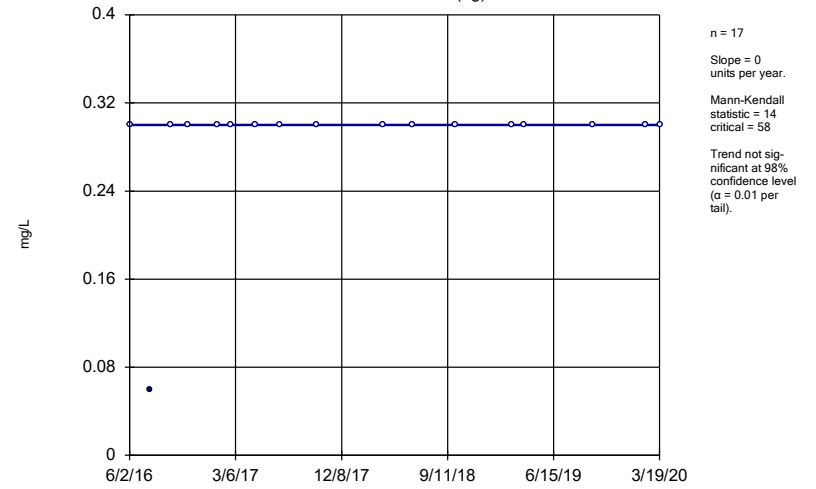
Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-2I (bg)



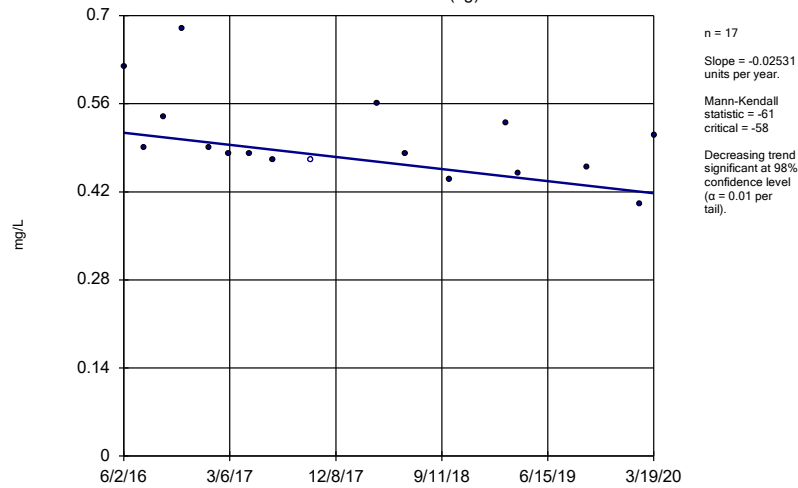
Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



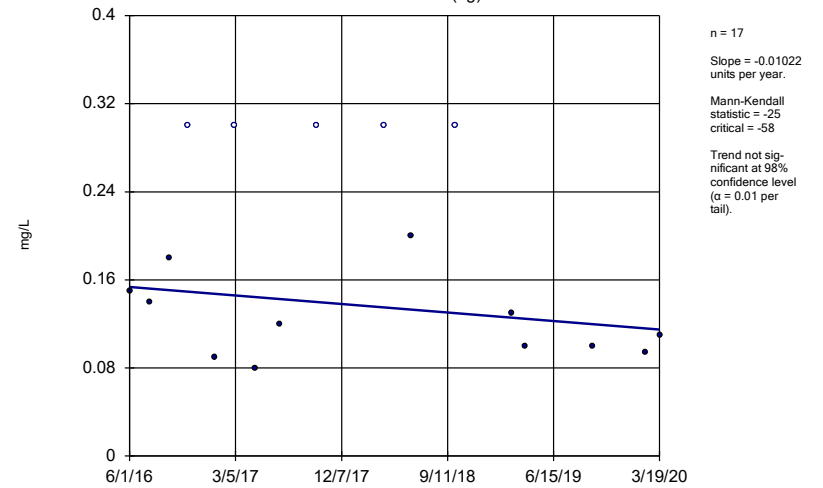
Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



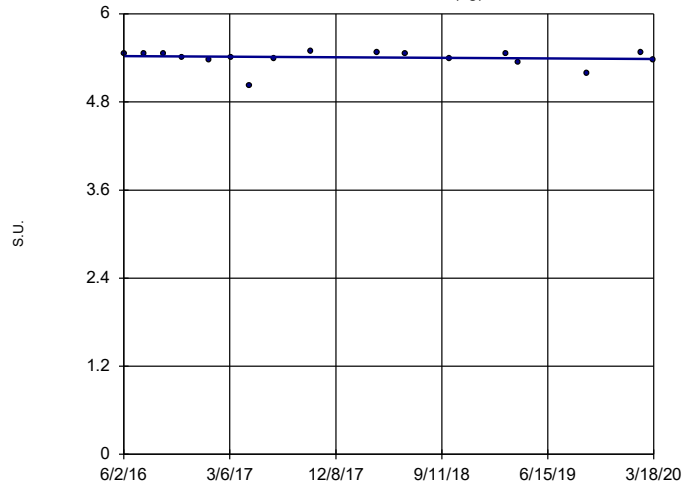
Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



Constituent: Fluoride Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

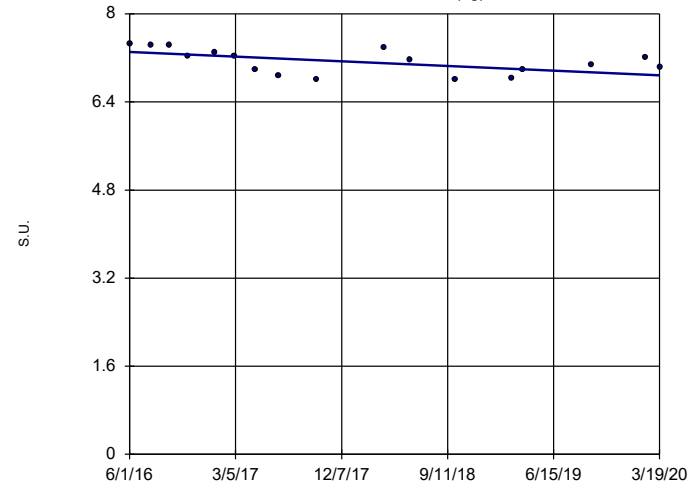
Sen's Slope Estimator
YGWA-14S (bg)



n = 17
Slope = -0.01066 units per year.
Mann-Kendall statistic = -20
critical = -58
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

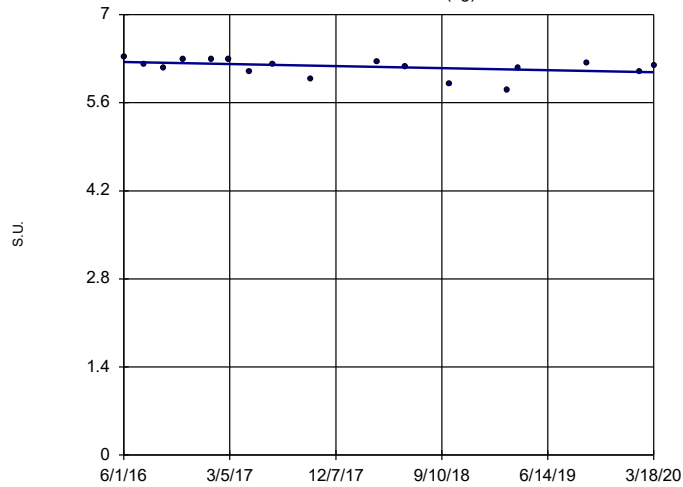
Sen's Slope Estimator
YGWA-1D (bg)



n = 17
Slope = -0.1114 units per year.
Mann-Kendall statistic = -61
critical = -58
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

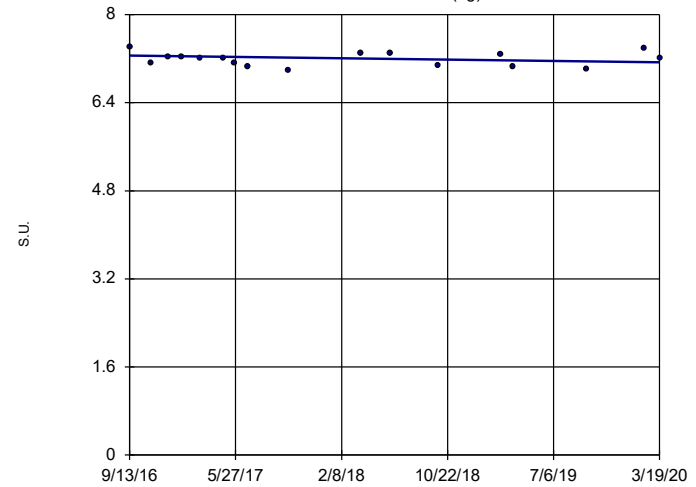
Sen's Slope Estimator
YGWA-11 (bg)



n = 17
Slope = -0.04218 units per year.
Mann-Kendall statistic = -52
critical = -58
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-2I (bg)

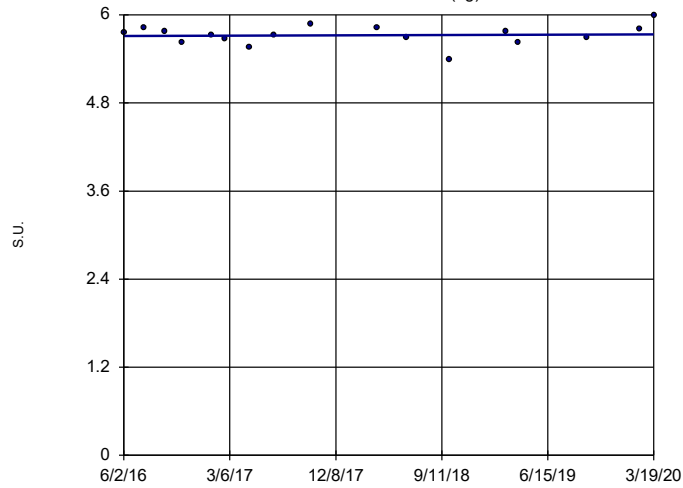


n = 17
Slope = -0.03531 units per year.
Mann-Kendall statistic = -21
critical = -58
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

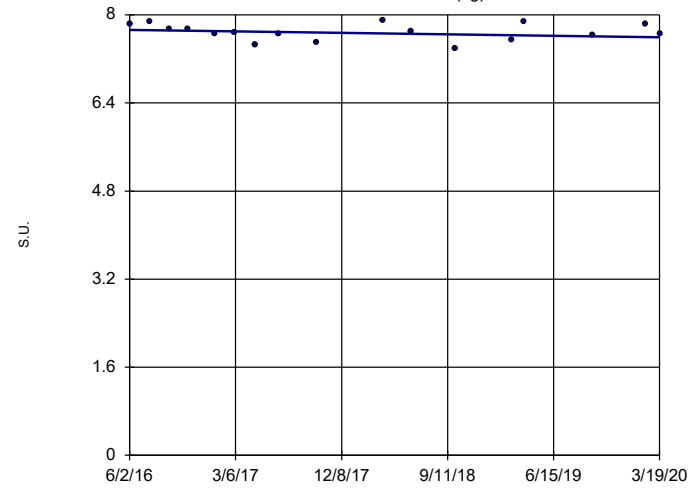


n = 17
 Slope = 0.005933
 units per year.
 Mann-Kendall
 statistic = 5
 critical = 58
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

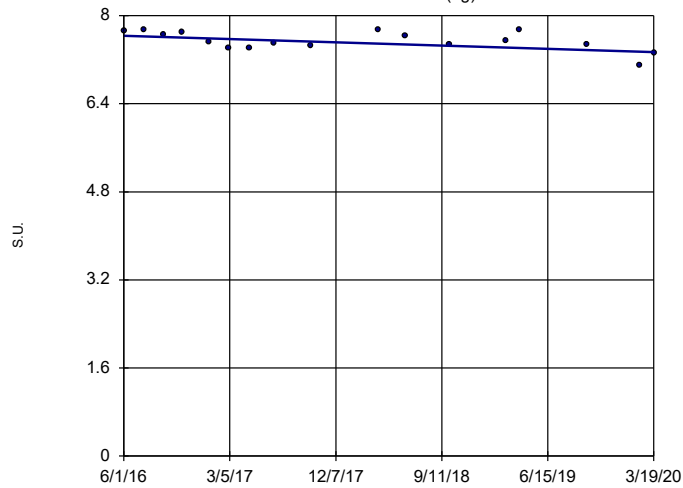


n = 17
 Slope = -0.0353
 units per year.
 Mann-Kendall
 statistic = -29
 critical = -58
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

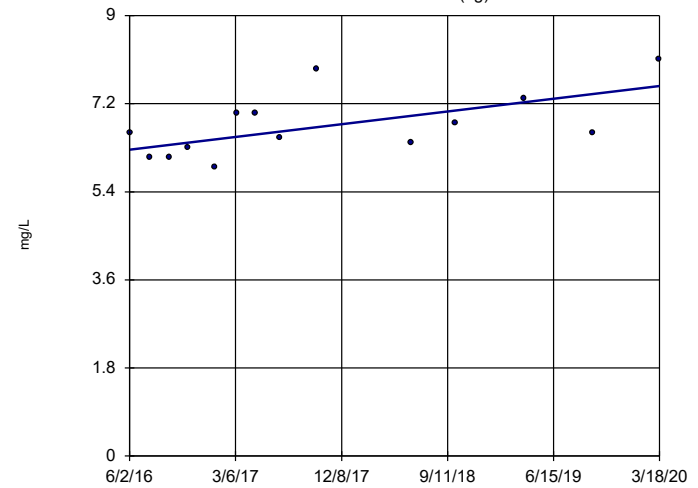


n = 17
 Slope = -0.07822
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -58
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: pH Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

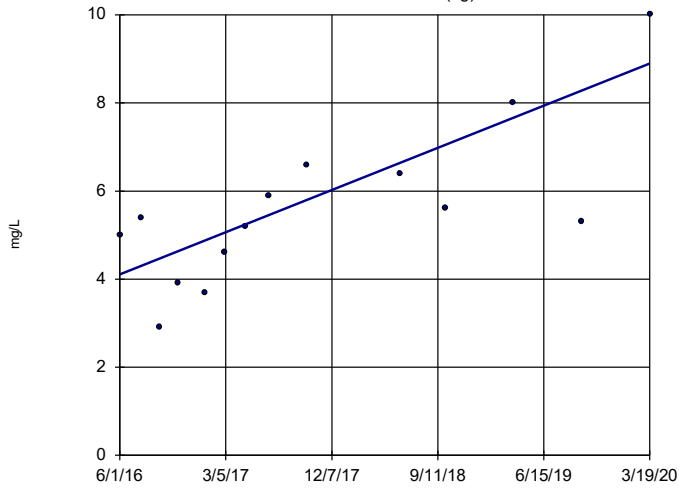
YGWA-14S (bg)



n = 14
 Slope = 0.3425
 units per year.
 Mann-Kendall
 statistic = 40
 critical = 44
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

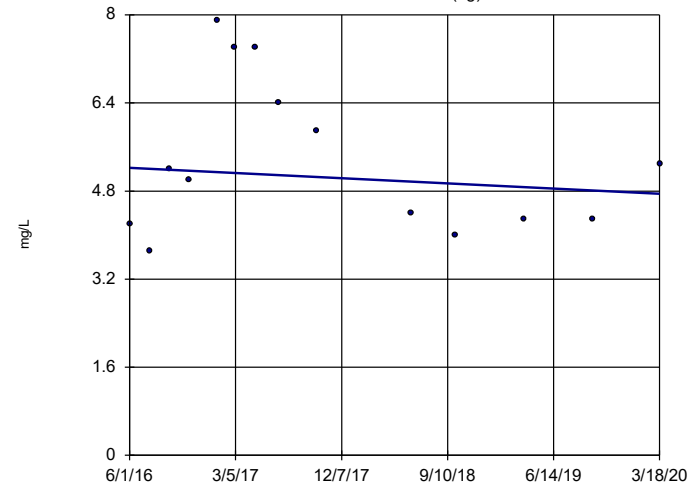
Sen's Slope Estimator
YGWA-1D (bg)



n = 14
Slope = 1.261 units per year.
Mann-Kendall statistic = 51
critical = 44
Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

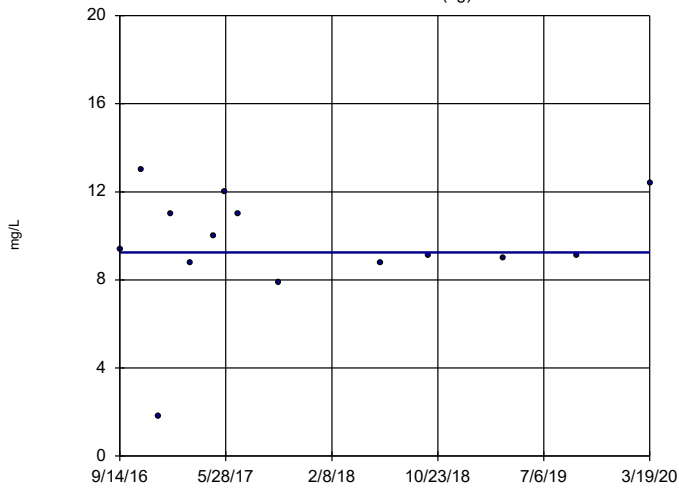
Sen's Slope Estimator
YGWA-1I (bg)



n = 14
Slope = -0.1237 units per year.
Mann-Kendall statistic = -7
critical = -44
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

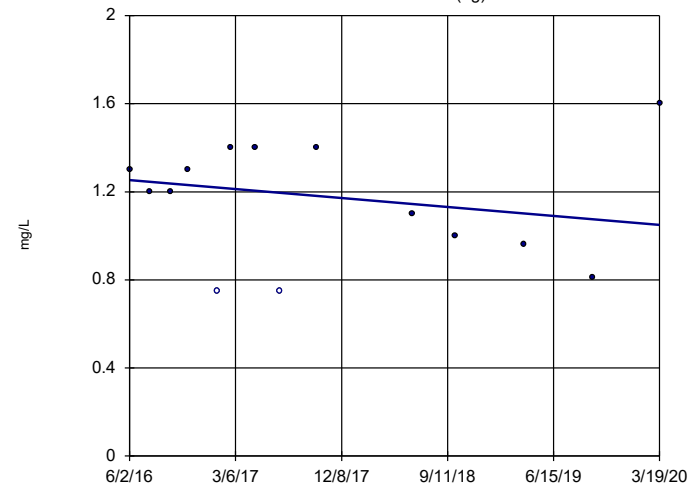
Sen's Slope Estimator
YGWA-2I (bg)



n = 14
Slope = 0 units per year.
Mann-Kendall statistic = 0
critical = 44
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-30I (bg)

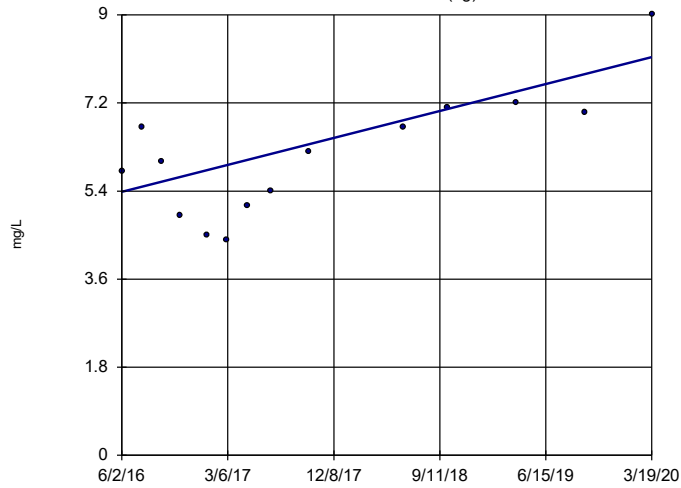


n = 14
Slope = -0.05321 units per year.
Mann-Kendall statistic = -7
critical = -44
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

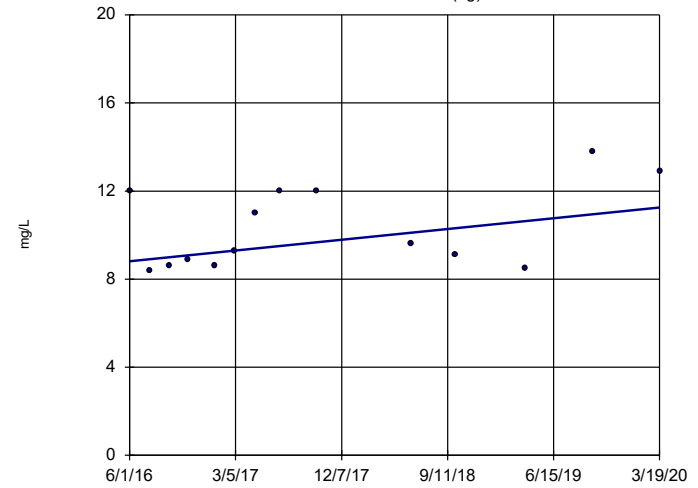


n = 14
 Slope = 0.7245 units per year.
 Mann-Kendall statistic = 46
 critical = 44
 Increasing trend significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

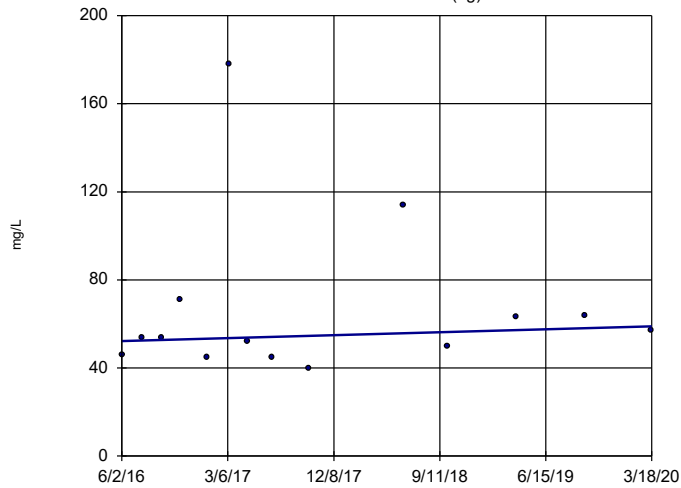


n = 14
 Slope = 0.6413 units per year.
 Mann-Kendall statistic = 31
 critical = 44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Sulfate Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

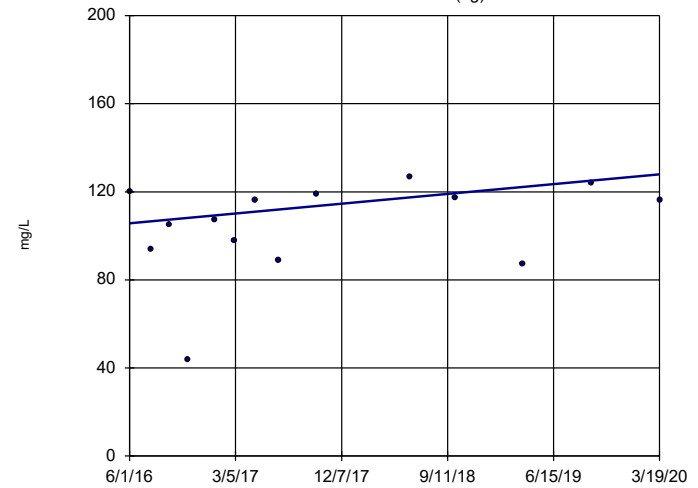


n = 14
 Slope = 1.727 units per year.
 Mann-Kendall statistic = 9
 critical = 44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-1D (bg)

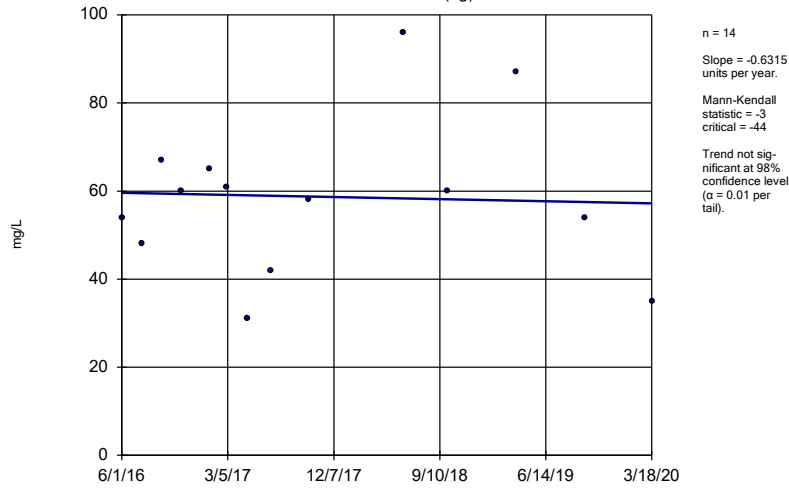


n = 14
 Slope = 5.856 units per year.
 Mann-Kendall statistic = 18
 critical = 44
 Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

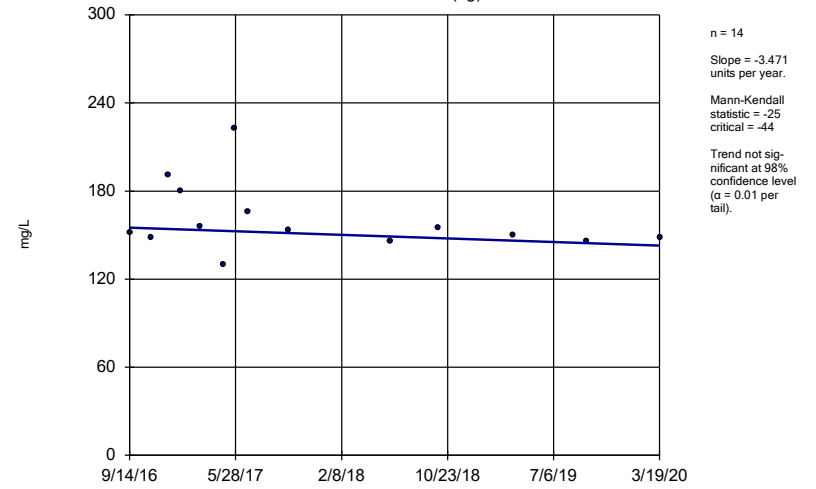
YGWA-11 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

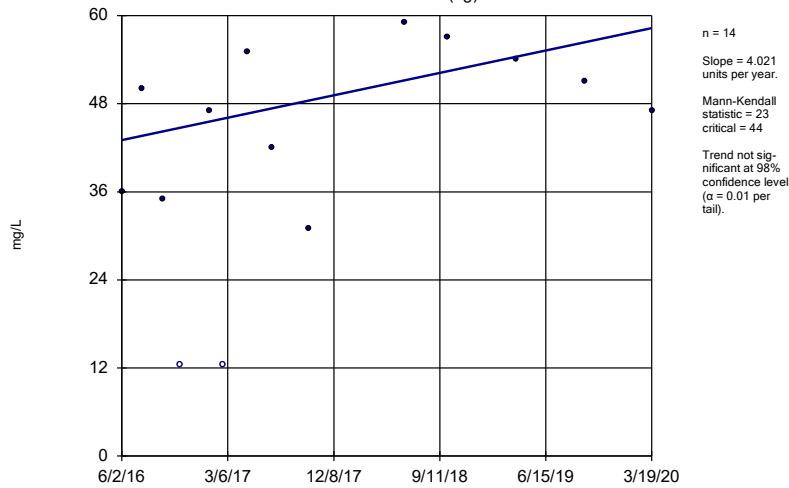
YGWA-21 (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

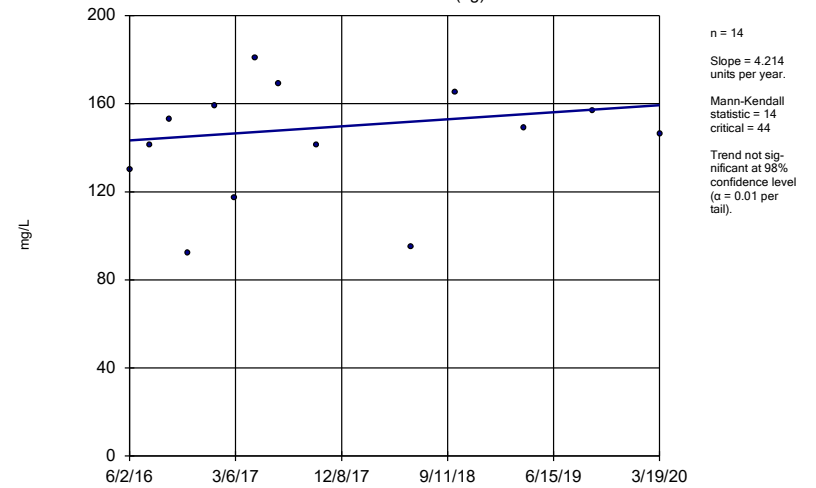
YGWA-30I (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

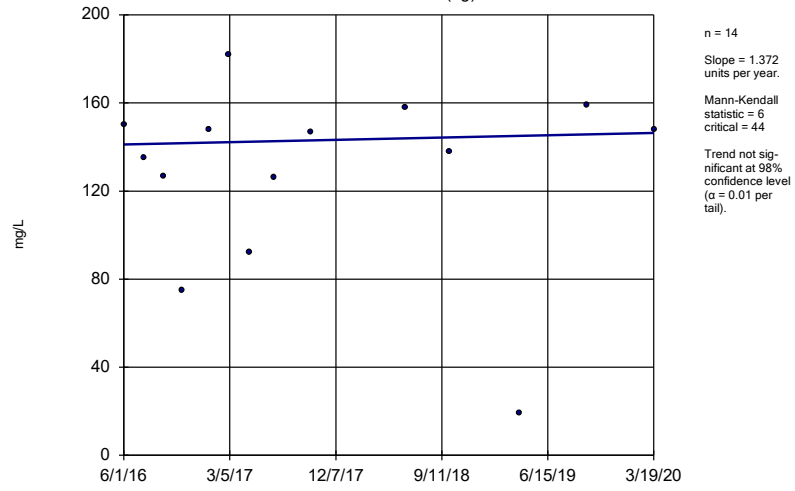
YGWA-3D (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3l (bg)



Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:36 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Appendix IV Trend Tests - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Barium (mg/L)	YGWA-3D (bg)	-0.0008036	-74	-53	Yes	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-26S	-0.00108	-80	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-271	-0.003166	-59	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-27S	-0.003589	-78	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-28S	-0.005296	-59	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-29I	-0.00565	-93	-53	Yes	16	0	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003763	-111	-53	Yes	16	0	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-271	0.003813	63	53	Yes	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.206	64	53	Yes	16	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.02531	-61	-58	Yes	17	5.882	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-30I (bg)	-0.007672	-54	-53	Yes	16	56.25	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-29I	-0.0005137	-61	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-1D (bg)	-0.0008772	-70	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-1I (bg)	-0.001096	-76	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-3D (bg)	0.0008155	70	53	Yes	16	0	n/a	n/a	0.02	NP

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Antimony (mg/L)	YGWA-14S (bg)	0	9	35	No	12	91.67	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-1D (bg)	0	7	35	No	12	50	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-1I (bg)	0	-13	-35	No	12	83.33	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-2I (bg)	-0.00002578	-21	-35	No	12	58.33	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-30I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-3D (bg)	0	2	35	No	12	66.67	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWA-3I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-26I	0	-19	-35	No	12	83.33	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-26S	0	-19	-35	No	12	83.33	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-27I	0	-11	-35	No	12	91.67	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-27S	0	-11	-35	No	12	91.67	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-28I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-28S	0	0	35	No	12	100	n/a	n/a	0.02	NP
Antimony (mg/L)	YGWC-29I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-14S (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-1D (bg)	-0.0002127	-51	-53	No	16	12.5	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-1I (bg)	0	-13	-53	No	16	93.75	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-2I (bg)	-0.0003521	-40	-53	No	16	12.5	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-30I (bg)	0	-13	-53	No	16	93.75	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-3D (bg)	0	-11	-53	No	16	87.5	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWA-3I (bg)	0	-4	-53	No	16	81.25	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-26I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-26S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-27I	-0.00007048	-39	-53	No	16	50	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-27S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-28I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-28S	-0.00009908	-51	-53	No	16	50	n/a	n/a	0.02	NP
Arsenic (mg/L)	YGWC-29I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-14S (bg)	-0.0004179	-47	-53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-1D (bg)	0.0001166	12	53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-1I (bg)	-0.0003284	-20	-53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-2I (bg)	-0.0003414	-44	-53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-30I (bg)	0.0000627	18	53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-3D (bg)	-0.0008036	-74	-53	Yes	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWA-3I (bg)	0	-4	-53	No	16	6.25	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-26I	-0.001377	-50	-53	No	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-26S	-0.00108	-80	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-27I	-0.003166	-59	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-27S	-0.003589	-78	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-28I	0	0	53	No	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-28S	-0.005296	-59	-53	Yes	16	0	n/a	n/a	0.02	NP
Barium (mg/L)	YGWC-29I	-0.00565	-93	-53	Yes	16	0	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-14S (bg)	0	-21	-44	No	14	14.29	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-1D (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-1I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-2I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-30I (bg)	0	-5	-44	No	14	92.86	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-3D (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWA-3I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-26I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-26S	-0.00001414	-24	-44	No	14	14.29	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-27I	0.000003256	15	44	No	14	21.43	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-27S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-28I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Beryllium (mg/L)	YGWC-28S	0	0	44	No	14	100	n/a	n/a	0.02	NP

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Beryllium (mg/L)	YGWC-29I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-14S (bg)	0	3	44	No	14	92.86	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-1D (bg)	0	5	44	No	14	92.86	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-1I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-2I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-30I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-3D (bg)	0	5	44	No	14	92.86	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWA-3I (bg)	0	5	44	No	14	92.86	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-26I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-26S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-27I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-27S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-28I	0.00001653	24	44	No	14	14.29	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-28S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Cadmium (mg/L)	YGWC-29I	0.000006972	16	44	No	14	14.29	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-14S (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-1D (bg)	0	-23	-44	No	14	64.29	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-1I (bg)	0	-24	-44	No	14	71.43	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-2I (bg)	0	-6	-44	No	14	78.57	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-30I (bg)	0	1	44	No	14	92.86	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-3D (bg)	0	8	44	No	14	78.57	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWA-3I (bg)	0	-5	-44	No	14	85.71	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-26I	-0.00005034	-29	-44	No	14	57.14	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-26S	-0.0000347	-9	-44	No	14	21.43	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-27I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-27S	0	-7	-44	No	14	85.71	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-28I	0	-10	-44	No	14	78.57	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-28S	0	-3	-44	No	14	85.71	n/a	n/a	0.02	NP
Chromium (mg/L)	YGWC-29I	0	11	44	No	14	92.86	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-14S (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-1D (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-1I (bg)	-0.000004271	-1	-53	No	16	12.5	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-2I (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-30I (bg)	-0.003763	-111	-53	Yes	16	0	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-3D (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWA-3I (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-26I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-26S	-0.0002527	-44	-53	No	16	6.25	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-27I	0.003813	63	53	Yes	16	0	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-27S	-0.00006569	-38	-53	No	16	6.25	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-28I	0	15	53	No	16	93.75	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-28S	0.00003557	17	53	No	16	6.25	n/a	n/a	0.02	NP
Cobalt (mg/L)	YGWC-29I	0	40	53	No	16	75	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-14S (bg)	-0.05778	-22	-53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-1D (bg)	0.1682	51	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-1I (bg)	0.08289	14	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-2I (bg)	0.08716	28	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-30I (bg)	0.09857	31	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-3D (bg)	0.2698	38	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWA-3I (bg)	0.3365	43	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	0.3153	45	48	No	15	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.06116	34	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	0.4428	40	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	0.1318	40	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.206	64	53	Yes	16	0	n/a	n/a	0.02	NP

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

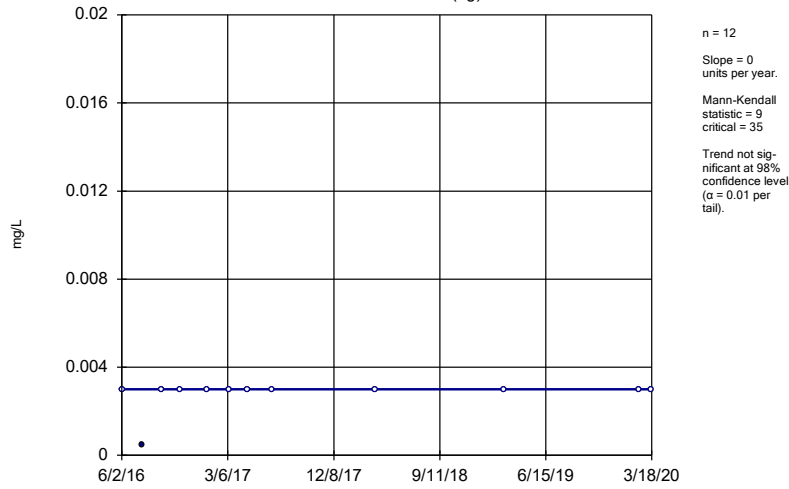
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Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.1341	34	53	No	16	0	n/a	n/a	0.02	NP
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	-0.01224	-2	-53	No	16	0	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-14S (bg)	0	14	58	No	17	94.12	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-1D (bg)	-0.004818	-21	-58	No	17	35.29	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-1I (bg)	0	17	58	No	17	88.24	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-2I (bg)	0	6	58	No	17	23.53	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-30I (bg)	0	14	58	No	17	94.12	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3D (bg)	-0.02531	-61	-58	Yes	17	5.882	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWA-3I (bg)	-0.01022	-25	-58	No	17	29.41	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-26I	0	-3	-58	No	17	47.06	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-26S	0	13	58	No	17	64.71	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-27I	0	11	58	No	17	70.59	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-27S	-0.03338	-38	-58	No	17	17.65	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-28I	-0.0009203	-14	-58	No	17	29.41	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-28S	-0.02391	-30	-58	No	17	11.76	n/a	n/a	0.02	NP
Fluoride (mg/L)	YGWC-29I	-0.005777	-36	-58	No	17	41.18	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-14S (bg)	0	1	35	No	12	91.67	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-1D (bg)	0	-4	-35	No	12	58.33	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-1I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-2I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-30I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-3D (bg)	0	14	35	No	12	58.33	n/a	n/a	0.02	NP
Lead (mg/L)	YGWA-3I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-26I	0	-11	-35	No	12	91.67	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-26S	0	-13	-35	No	12	83.33	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-27I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-27S	0	-14	-35	No	12	75	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-28I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-28S	0	-22	-35	No	12	75	n/a	n/a	0.02	NP
Lead (mg/L)	YGWC-29I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-14S (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-1D (bg)	-0.001625	-47	-53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-1I (bg)	-0.00007918	-41	-53	No	16	18.75	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-2I (bg)	-0.0005677	-53	-53	No	16	12.5	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-30I (bg)	-0.007672	-54	-53	Yes	16	56.25	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-3D (bg)	0.0005207	37	53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWA-3I (bg)	0.0005239	27	53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-26I	0.0001336	40	53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-26S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-27I	-0.00005456	-4	-53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-27S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-28I	-0.00009645	-34	-53	No	16	0	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-28S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Lithium (mg/L)	YGWC-29I	-0.0005137	-61	-53	Yes	16	0	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-14S (bg)	0	-6	-39	No	13	92.31	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-1D (bg)	0	-15	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-1I (bg)	0	-6	-39	No	13	92.31	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-2I (bg)	0	0	39	No	13	100	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-30I (bg)	0	-13	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-3D (bg)	0	-13	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWA-3I (bg)	0	-13	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-26I	0	-14	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-26S	0	-13	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-27I	0	-15	-39	No	13	84.62	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-27S	0	-15	-39	No	13	84.62	n/a	n/a	0.02	NP

Appendix IV Trend Tests - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:49 PM

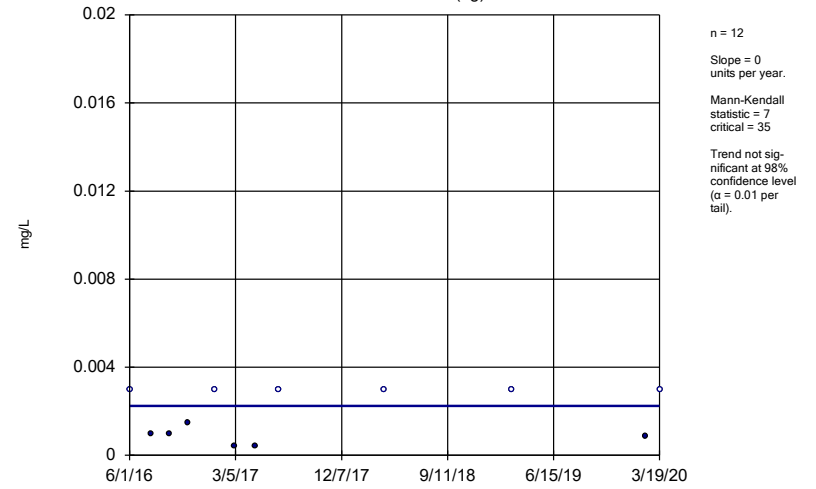
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Mercury (mg/L)	YGWC-28I	0	-6	-39	No	13	92.31	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-28S	0	-6	-39	No	13	92.31	n/a	n/a	0.02	NP
Mercury (mg/L)	YGWC-29I	0	-15	-39	No	13	84.62	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-14S (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-1D (bg)	-0.0008772	-70	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-1I (bg)	-0.001096	-76	-53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-2I (bg)	0.00004235	4	53	No	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-30I (bg)	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-3D (bg)	0.0008155	70	53	Yes	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWA-3I (bg)	-0.0001073	-6	-53	No	16	0	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-26I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-26S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-27I	0	-3	-53	No	16	62.5	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-27S	0	0	53	No	16	100	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-28I	0	-5	-53	No	16	56.25	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-28S	0	17	53	No	16	87.5	n/a	n/a	0.02	NP
Molybdenum (mg/L)	YGWC-29I	0	0	53	No	16	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-14S (bg)	0	35	44	No	14	64.29	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-1D (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-1I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-2I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-30I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-3D (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWA-3I (bg)	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-26I	0	-5	-44	No	14	14.29	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-26S	0	35	44	No	14	71.43	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-27I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-27S	0	0	44	No	14	100	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-28I	0	3	44	No	14	92.86	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-28S	0	9	44	No	14	92.86	n/a	n/a	0.02	NP
Selenium (mg/L)	YGWC-29I	0	0	44	No	14	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-14S (bg)	0	-9	-35	No	12	91.67	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-1D (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-1I (bg)	0	-9	-35	No	12	91.67	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-2I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-30I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-3D (bg)	0	9	35	No	12	91.67	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWA-3I (bg)	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-26I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-26S	0	-21	-35	No	12	83.33	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-27I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-27S	0	-5	-35	No	12	50	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-28I	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-28S	0	0	35	No	12	100	n/a	n/a	0.02	NP
Thallium (mg/L)	YGWC-29I	0	0	35	No	12	100	n/a	n/a	0.02	NP

Sen's Slope Estimator YGWA-14S (bg)



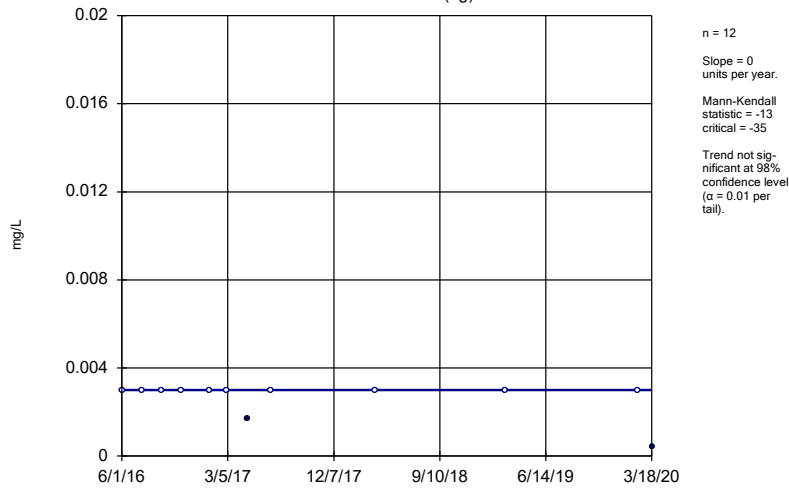
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Sen's Slope Estimator YGWA-1D (bg)



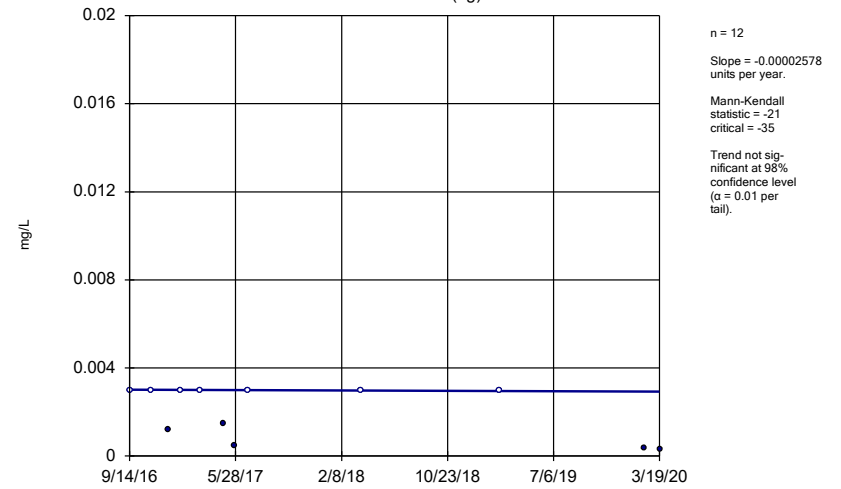
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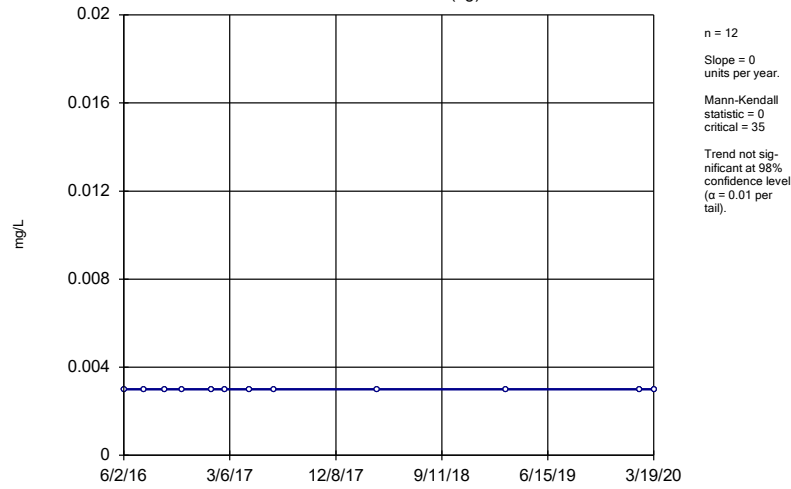
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Sen's Slope Estimator YGWA-2I (bg)



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Sen's Slope Estimator YGWA-30I (bg)



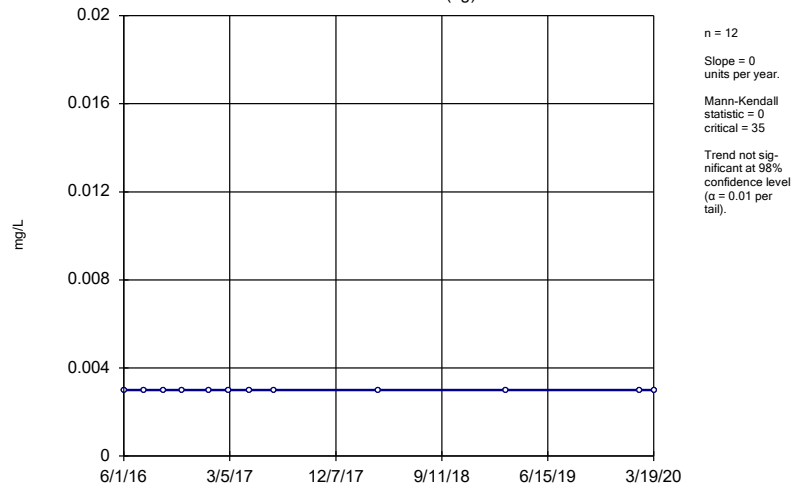
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Sen's Slope Estimator YGWA-3D (bg)



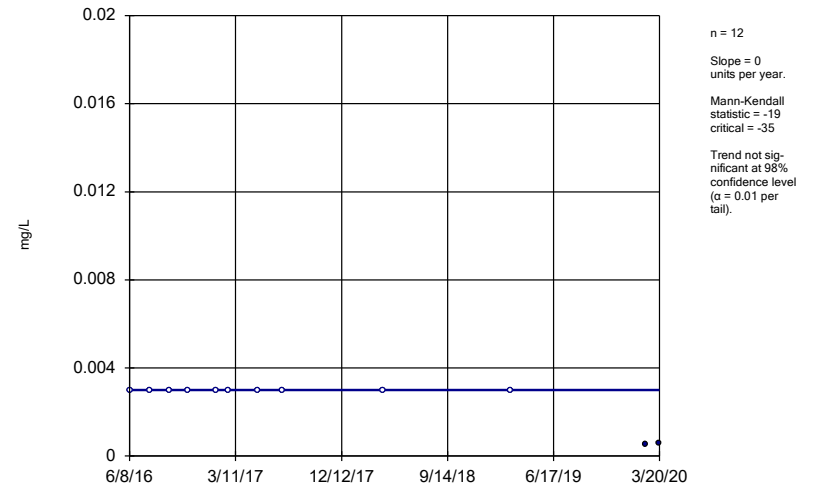
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Sen's Slope Estimator YGWA-3I (bg)



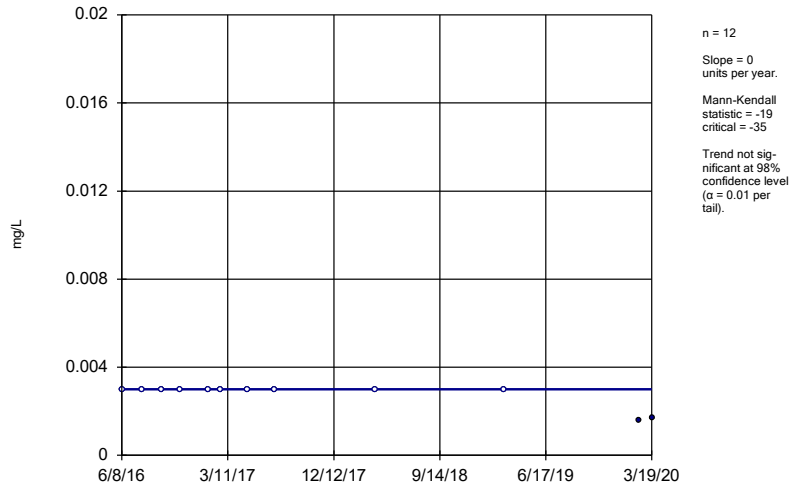
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Sen's Slope Estimator YGWC-26I



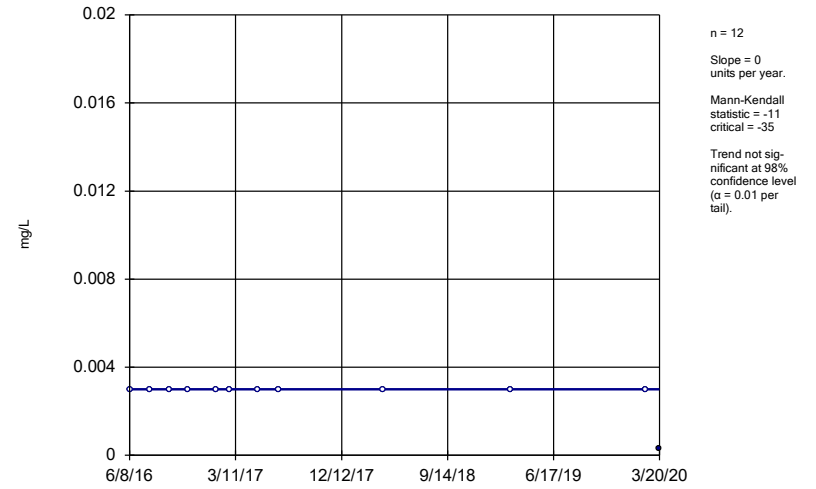
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Sen's Slope Estimator YGWC-26S



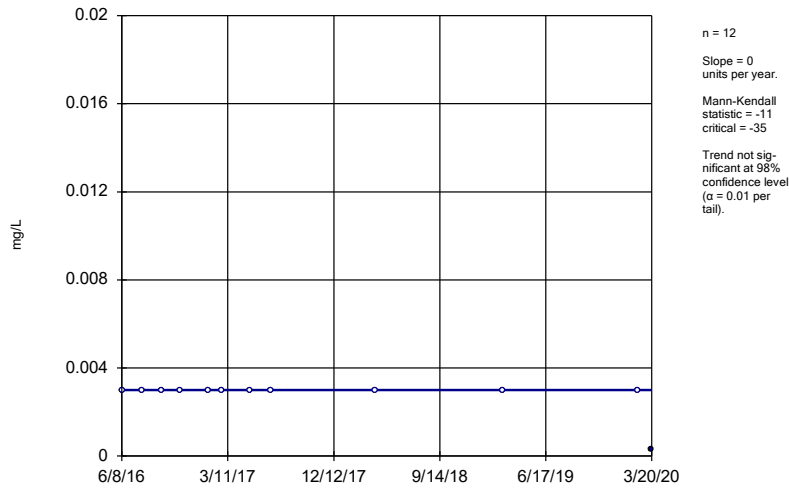
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



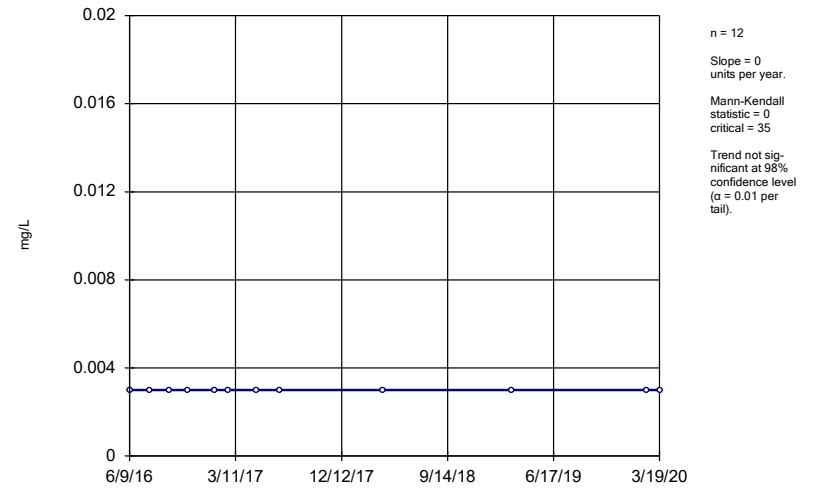
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



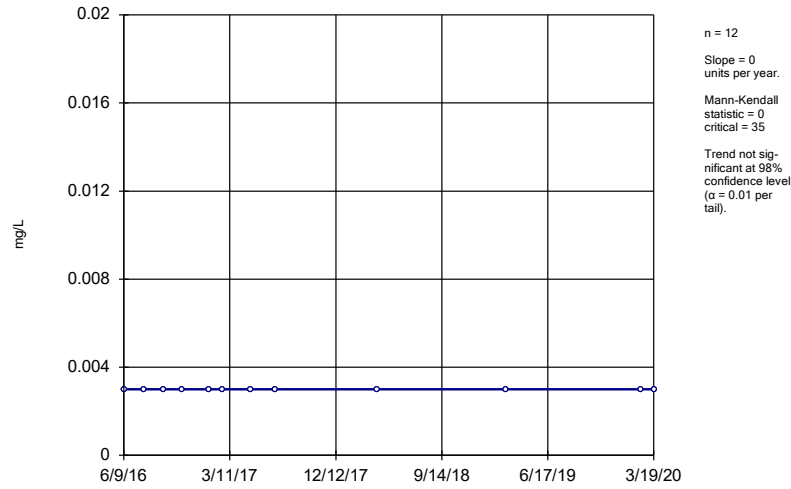
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



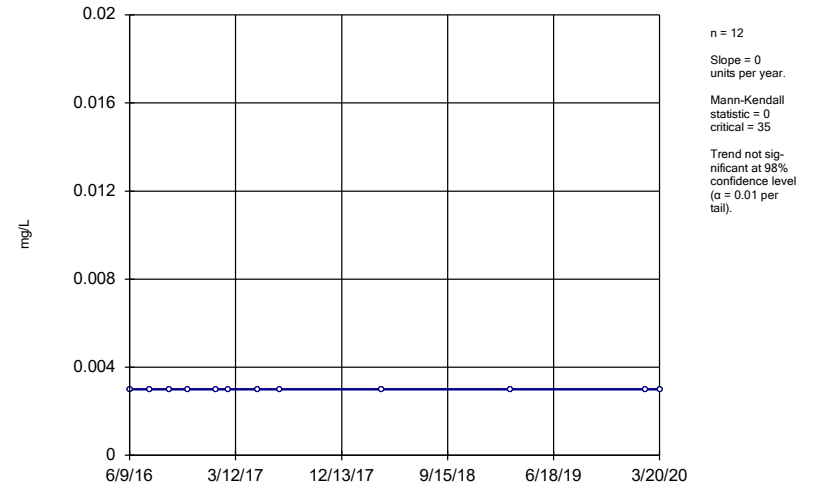
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



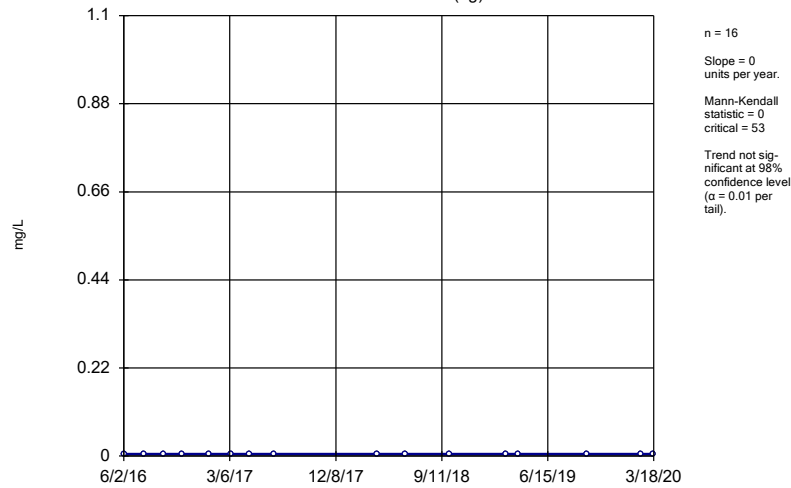
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



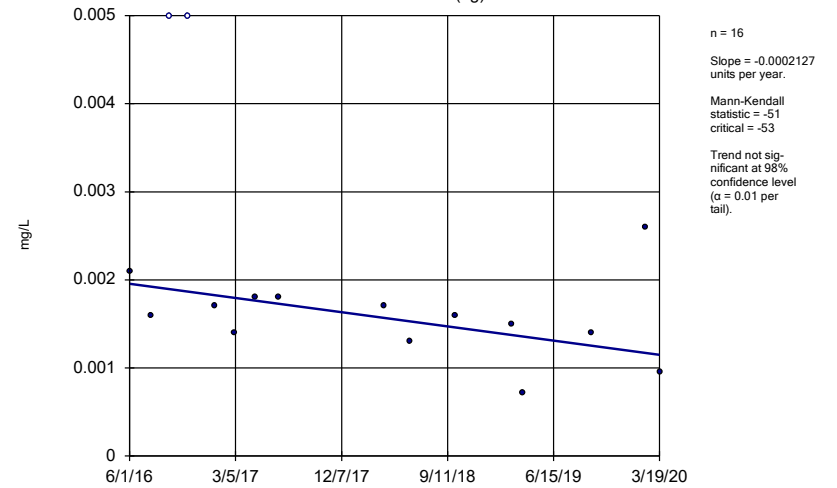
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

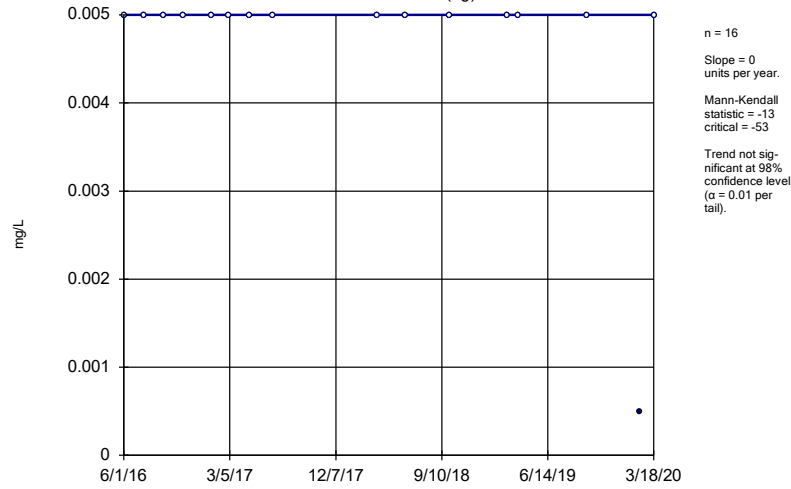
Sen's Slope Estimator YGWA-1D (bg)



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

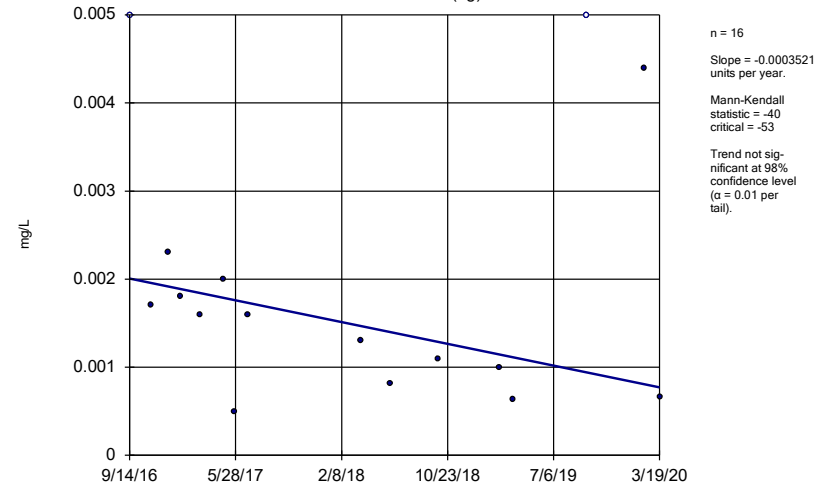
YGWA-1I (bg)



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

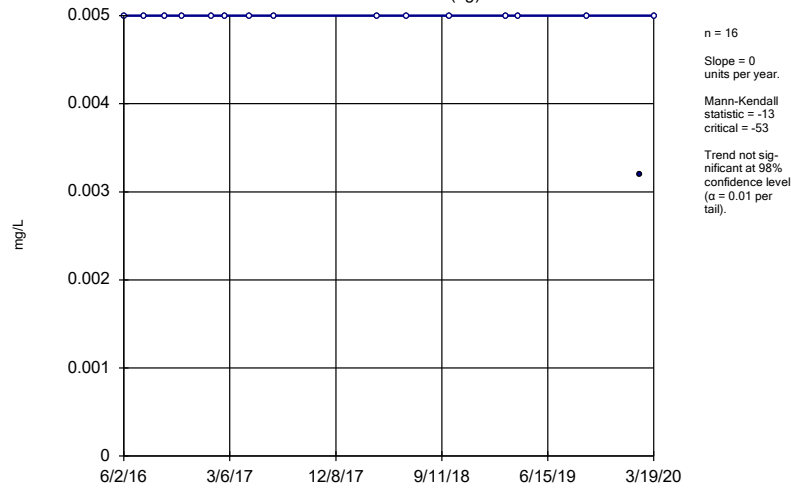
YGWA-2I (bg)



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

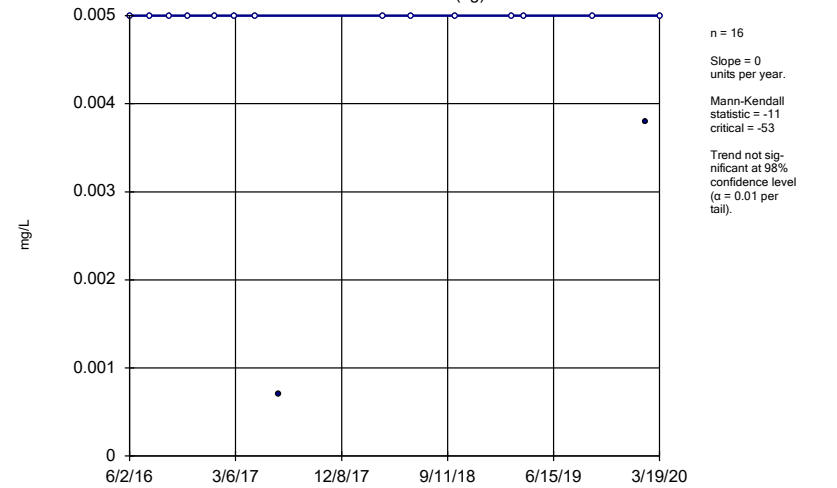
YGWA-30I (bg)



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

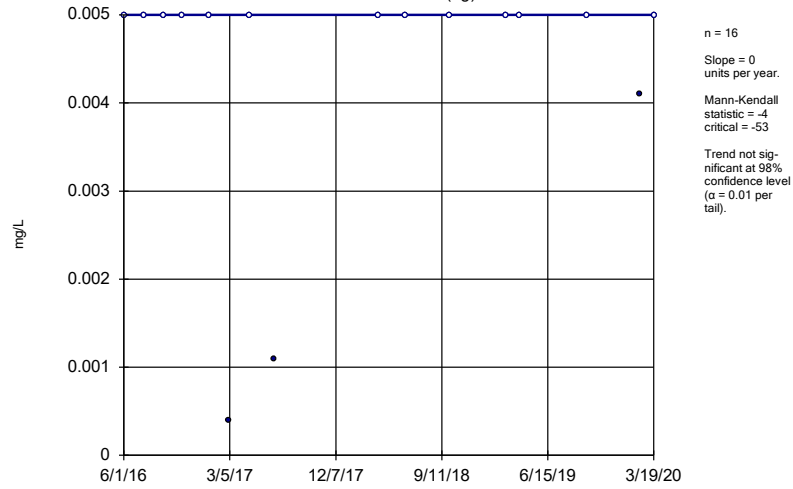
YGWA-3D (bg)



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

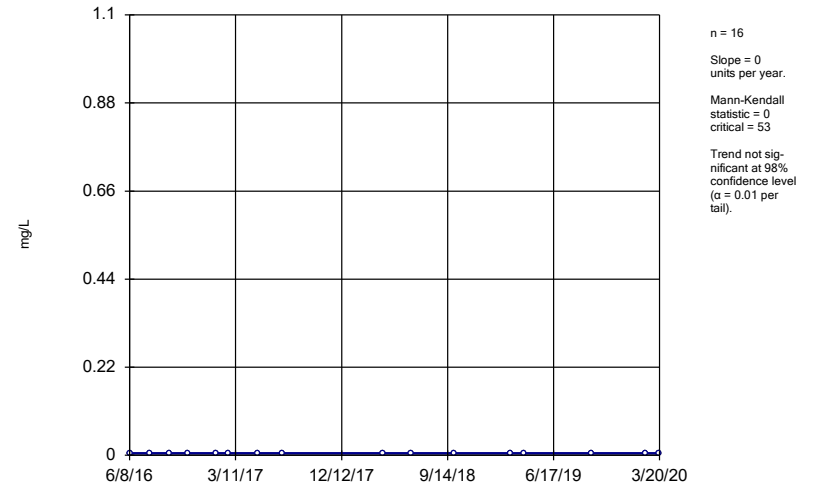
YGWA-3I (bg)



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

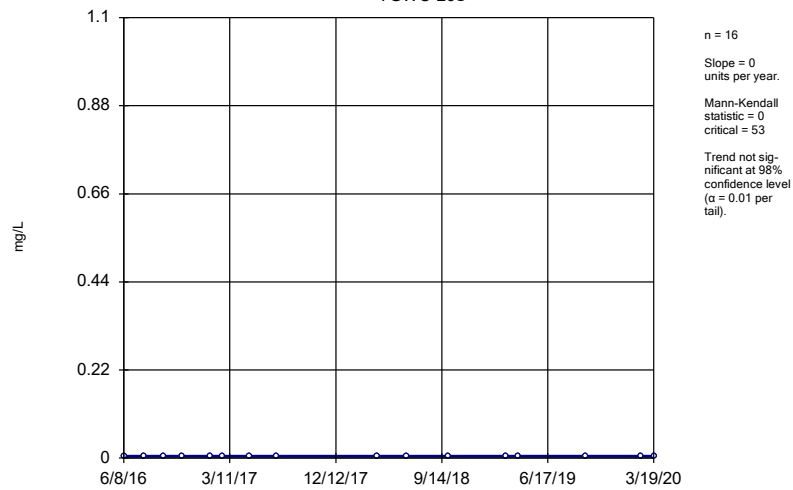
YGWC-26I



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

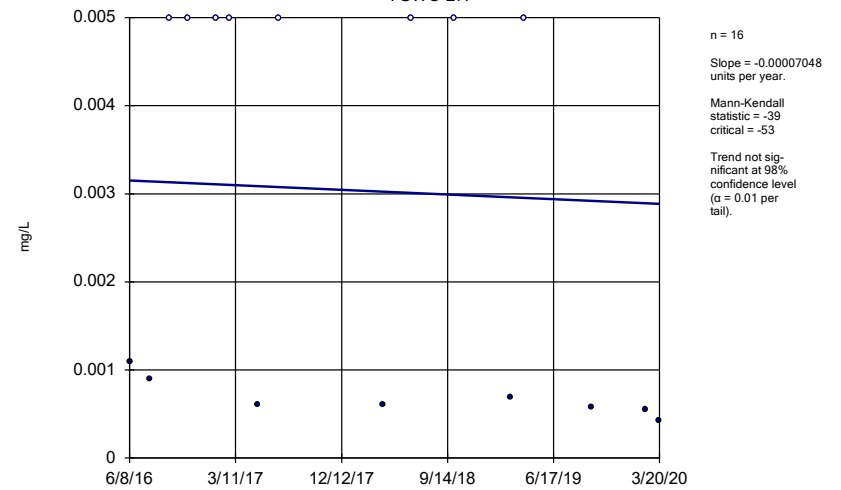
YGWC-26S



Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

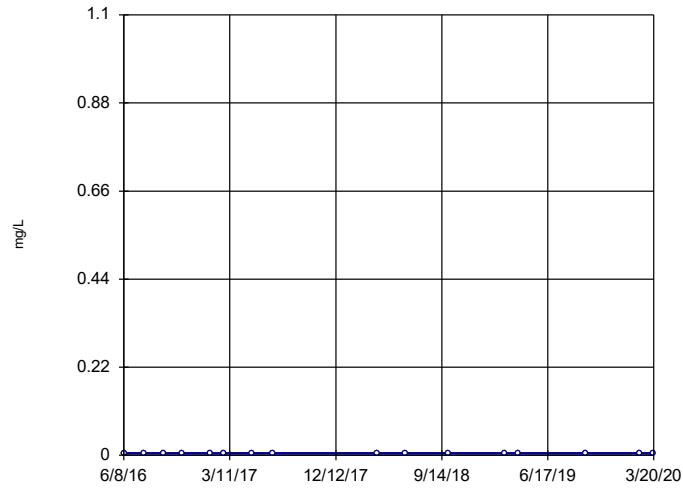
Sen's Slope Estimator

YGWC-27I



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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

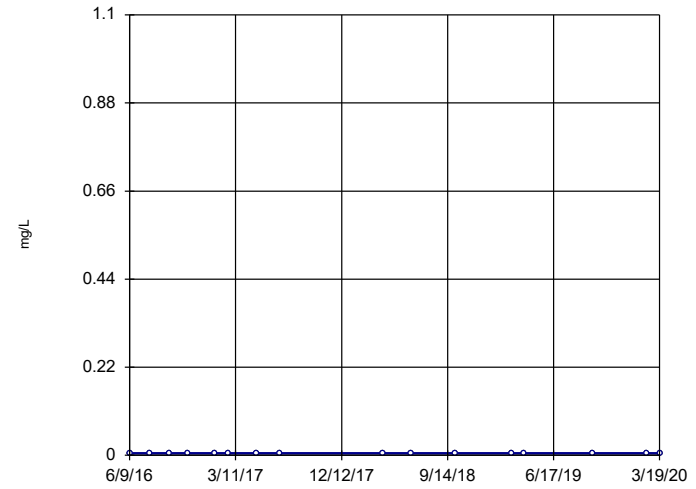
Sen's Slope Estimator YGWC-27S



n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

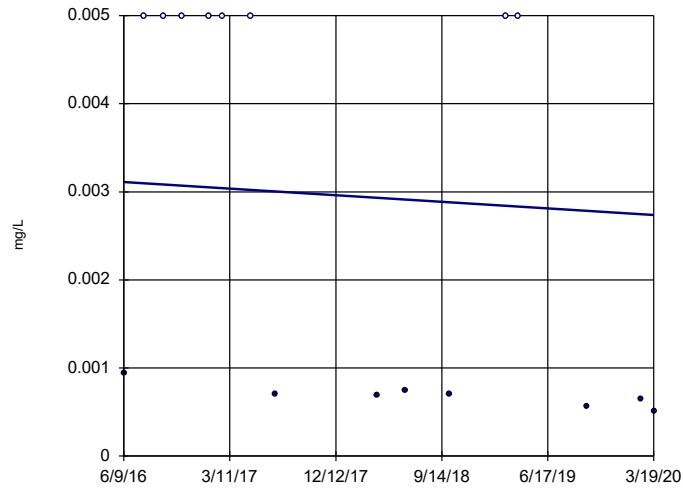
Sen's Slope Estimator YGWC-28I



n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

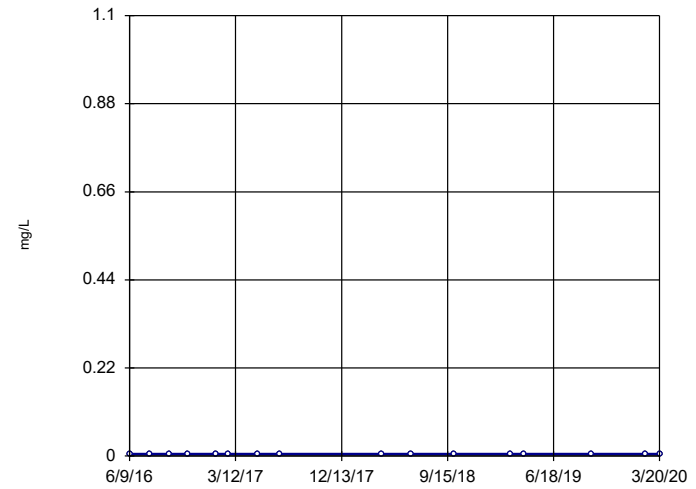
Sen's Slope Estimator YGWC-28S



n = 16
Slope = -0.00009908
units per year.
Mann-Kendall
statistic = -51
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I

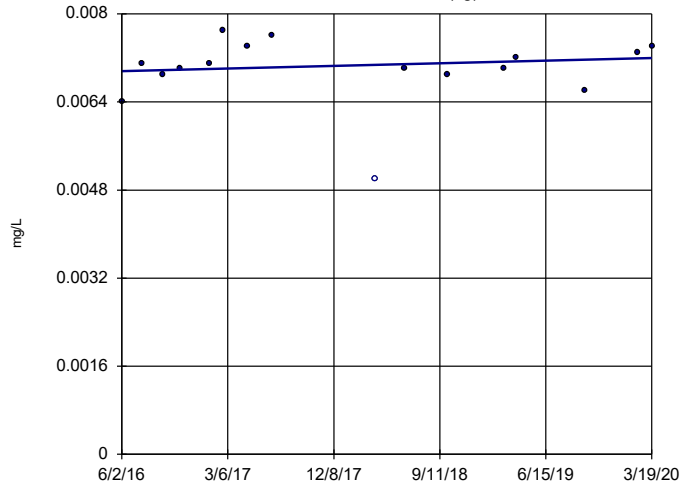


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Arsenic Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

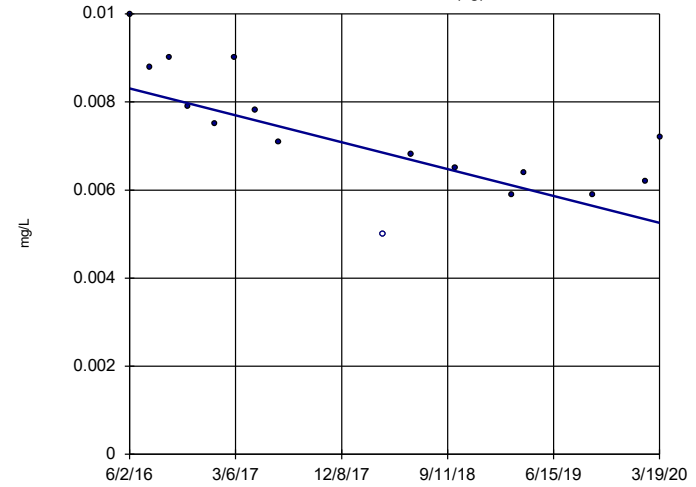


n = 16
Slope = 0.0000627 units per year.
Mann-Kendall statistic = 18
critical = 53
Trend not significant at 98% confidence level (α = 0.01 per tail).

Constituent: Barium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

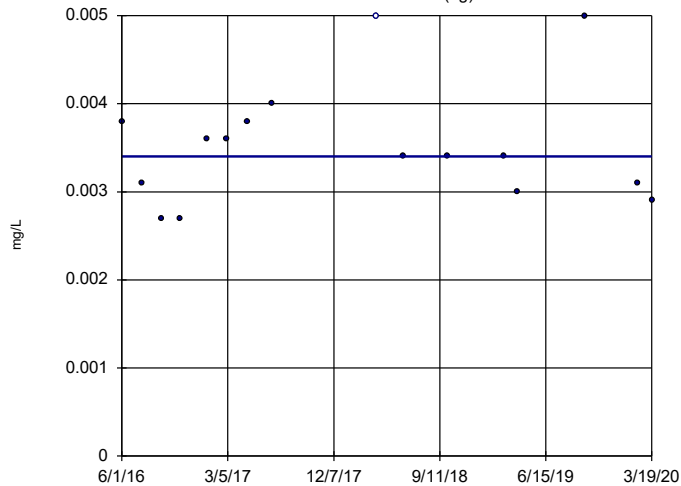


n = 16
Slope = -0.0008036 units per year.
Mann-Kendall statistic = -74
critical = -53
Decreasing trend significant at 98% confidence level (α = 0.01 per tail).

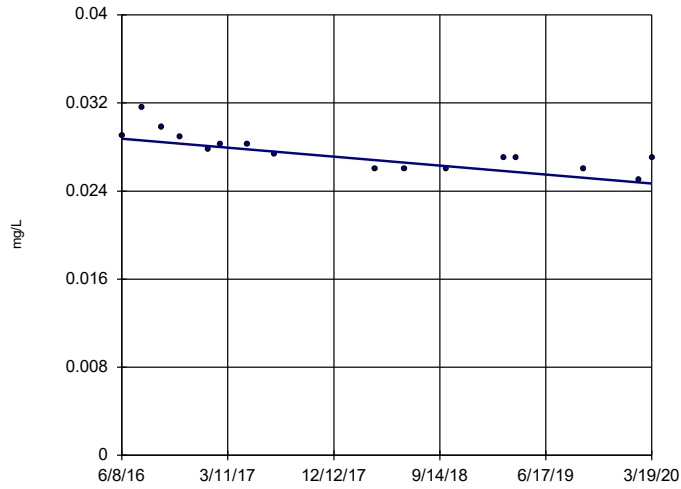
Constituent: Barium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

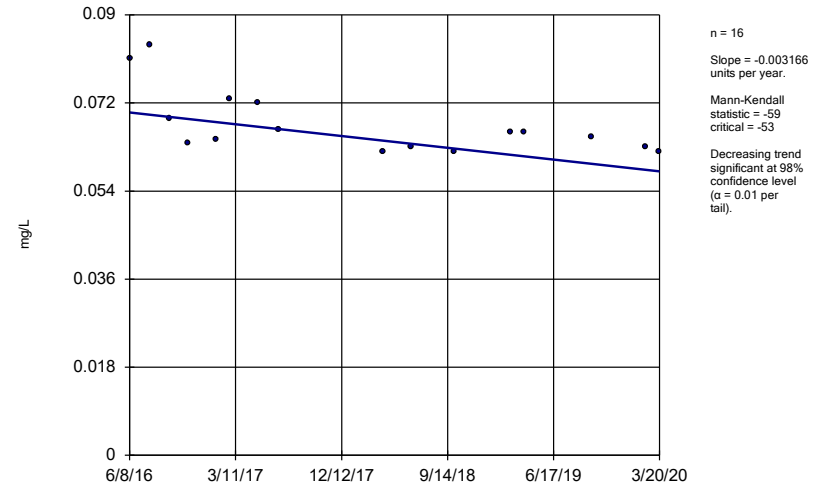


Sen's Slope Estimator YGWC-26S



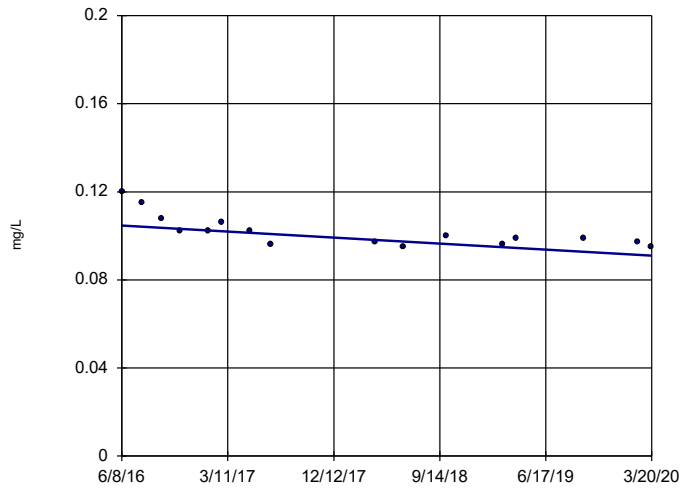
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



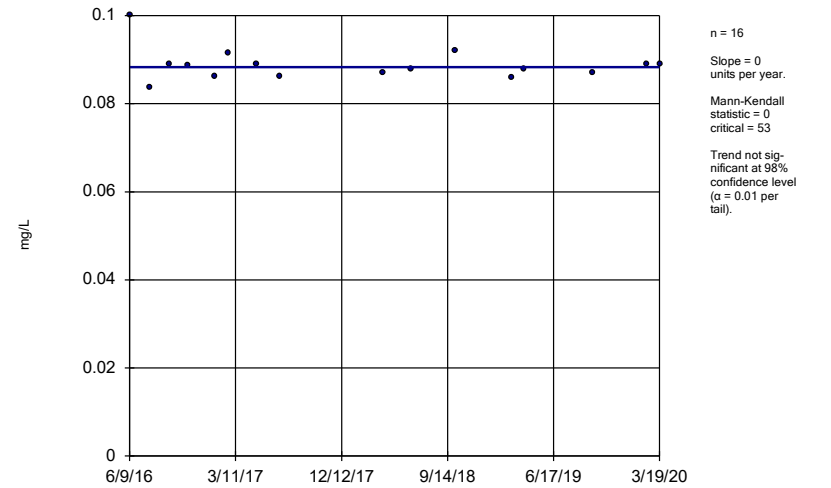
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



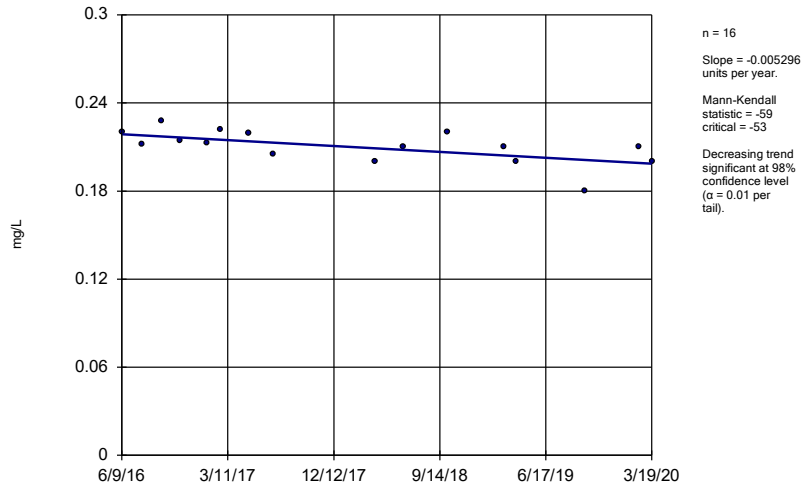
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



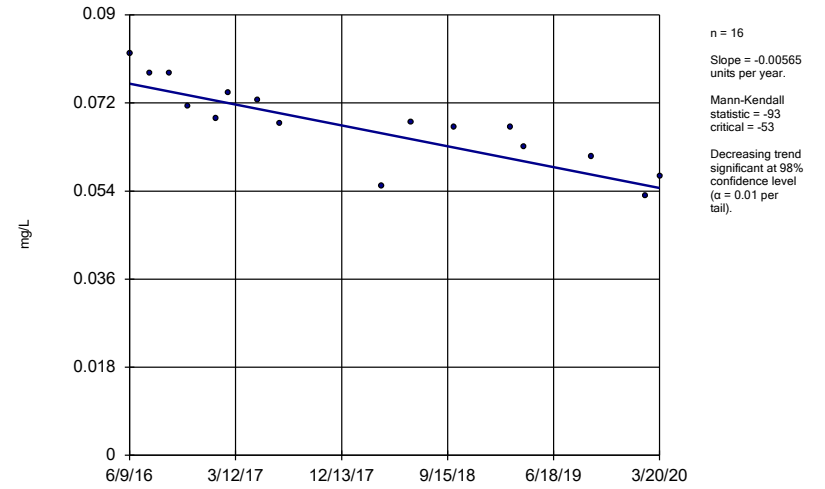
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



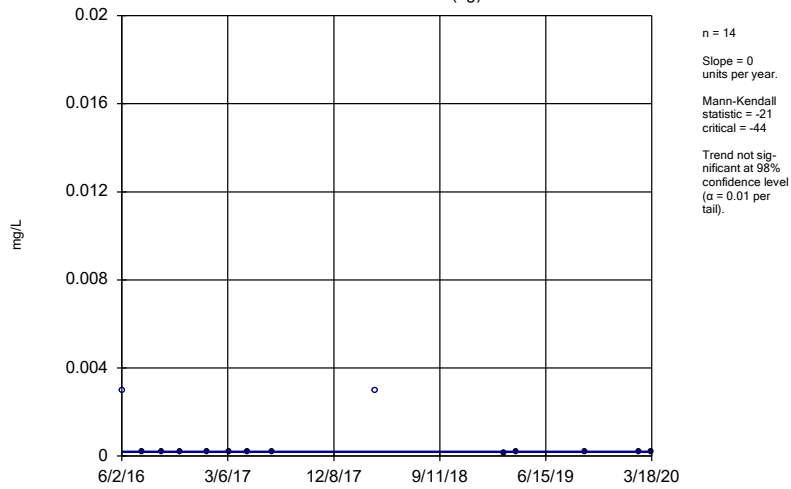
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



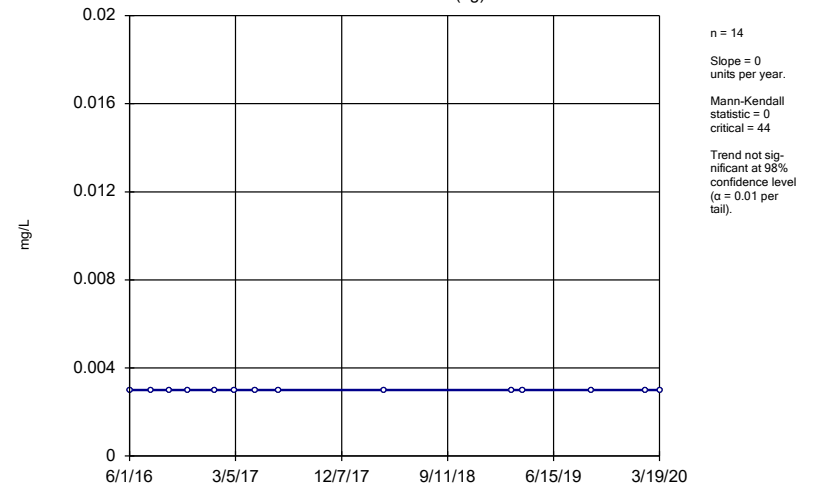
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



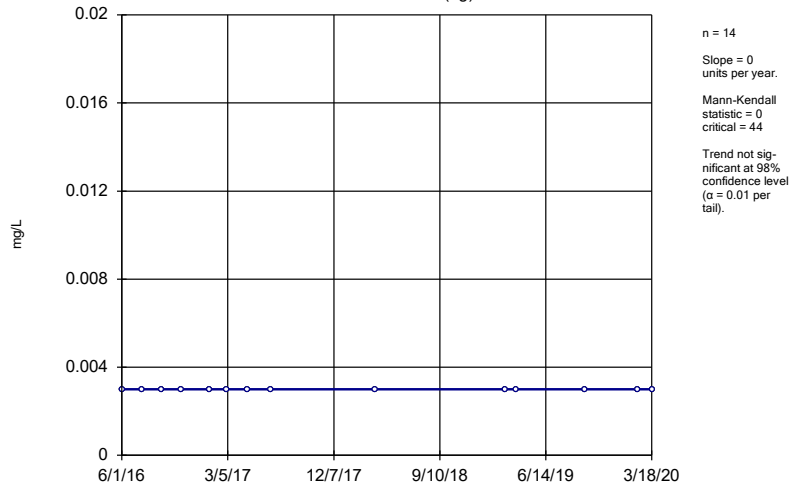
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



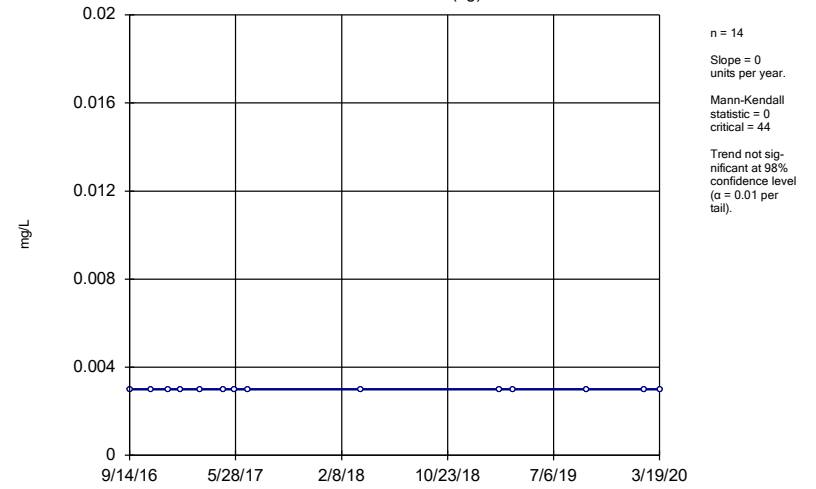
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



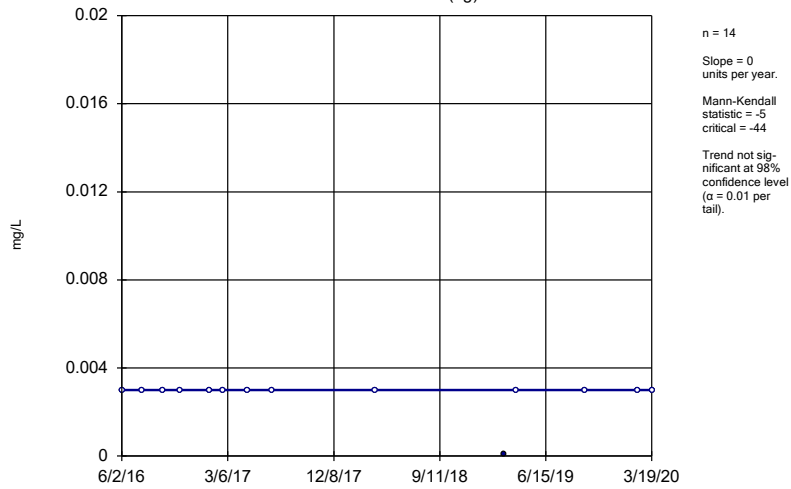
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-21 (bg)



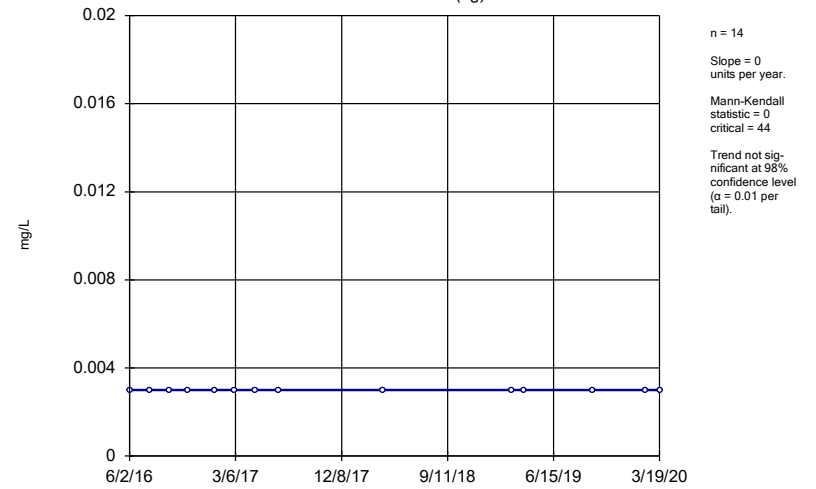
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



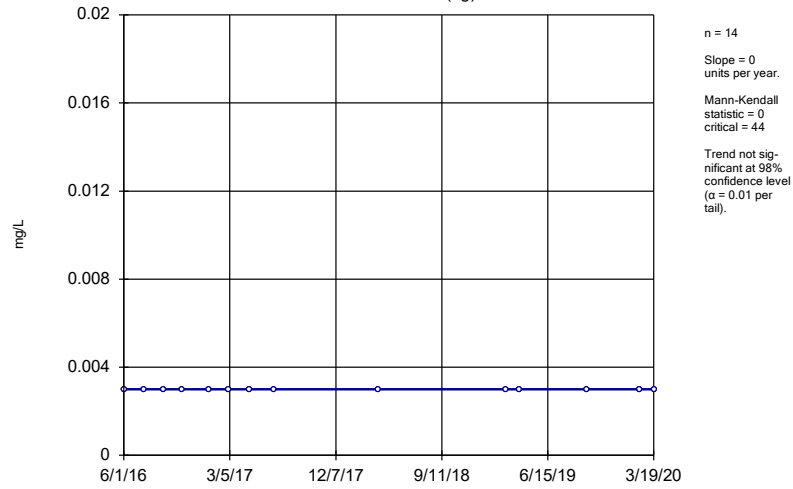
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



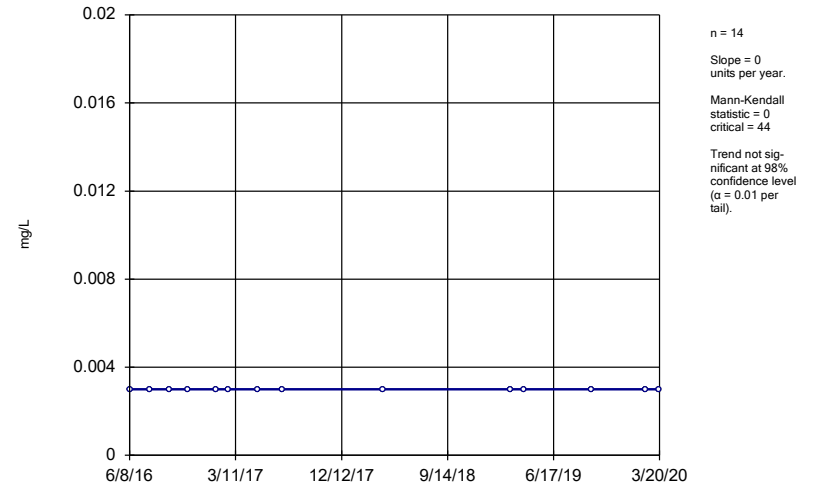
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



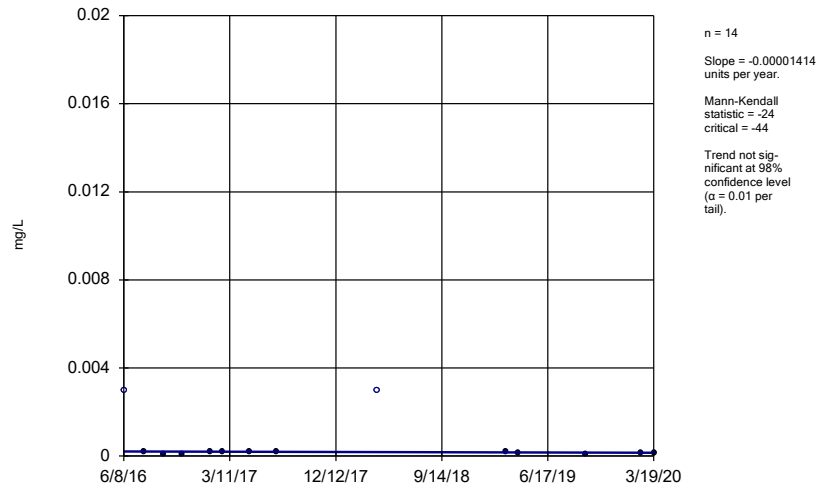
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



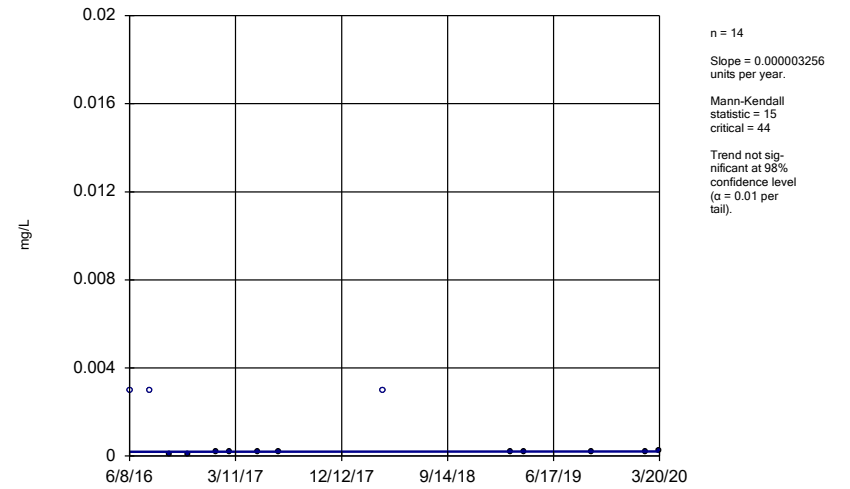
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



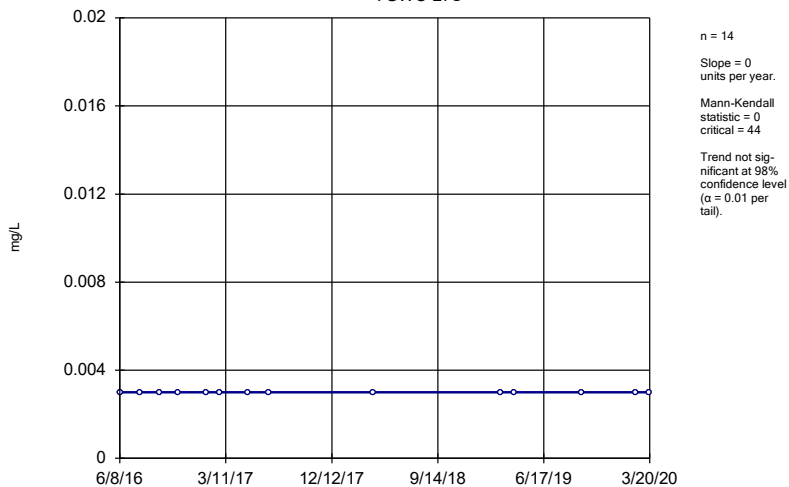
Constituent: Beryllium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



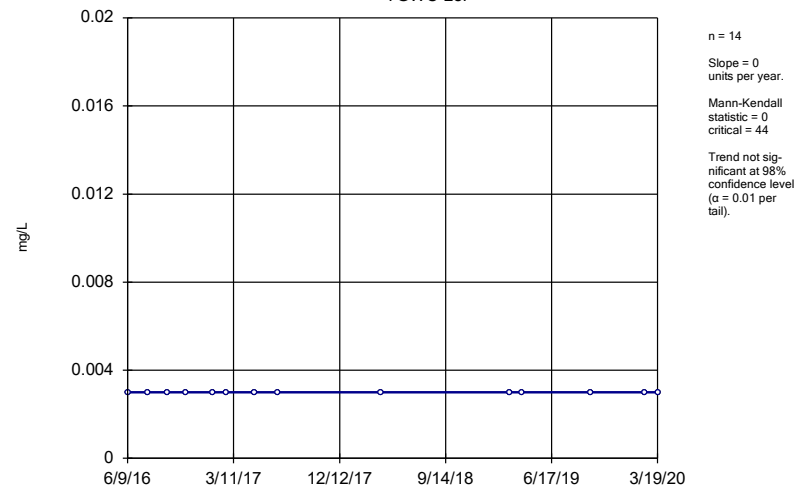
Constituent: Beryllium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



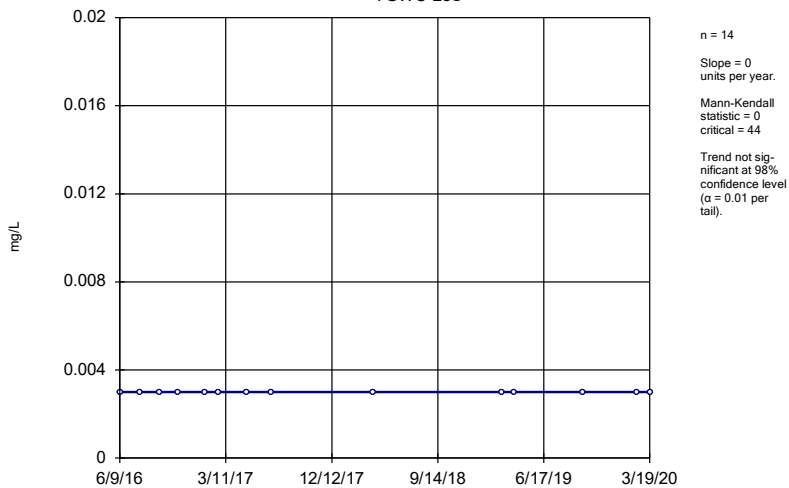
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



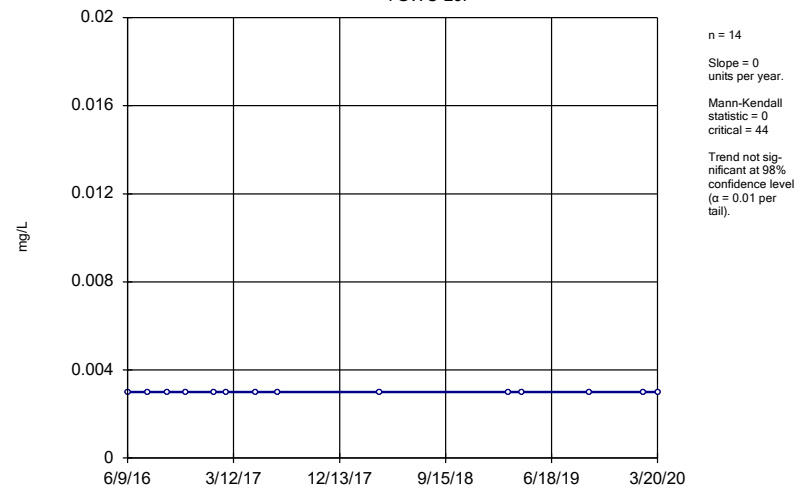
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



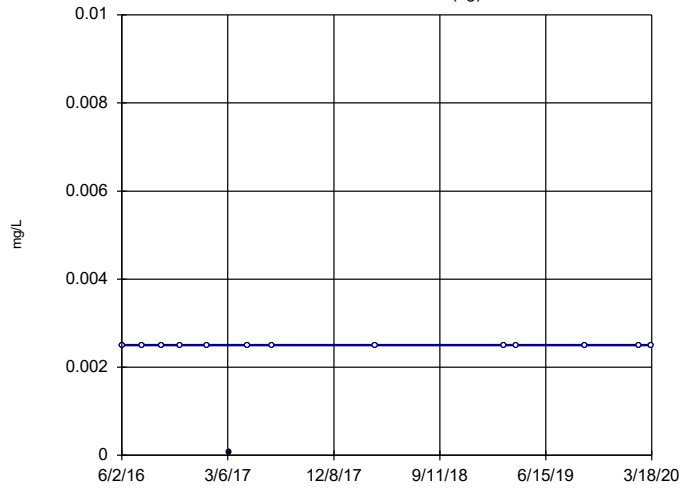
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



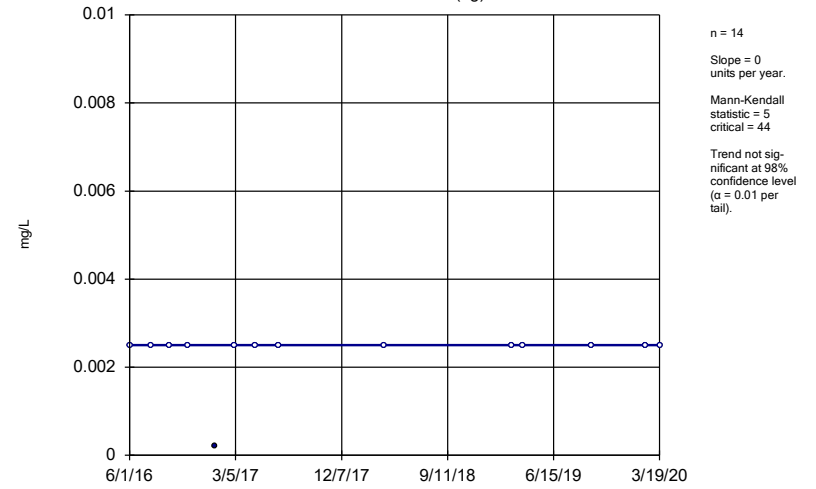
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



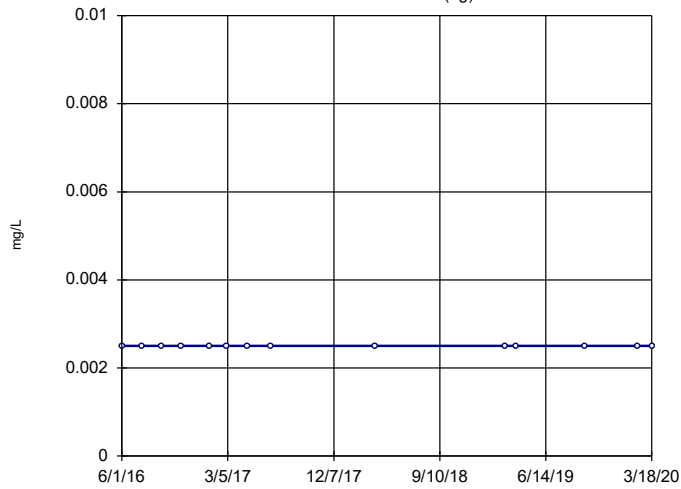
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



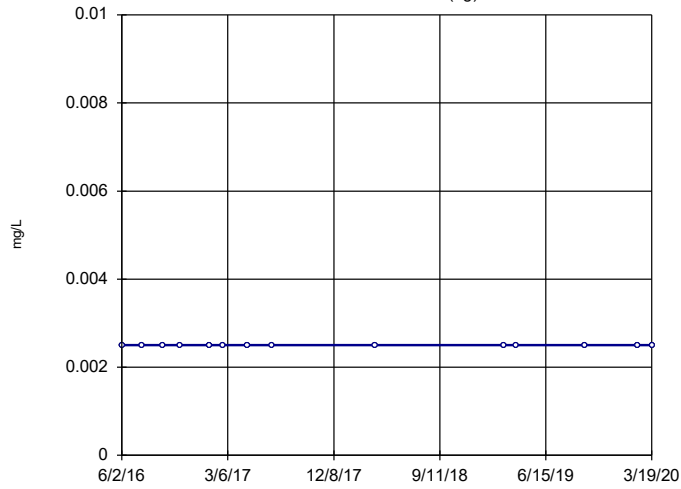
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-2I (bg)



Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

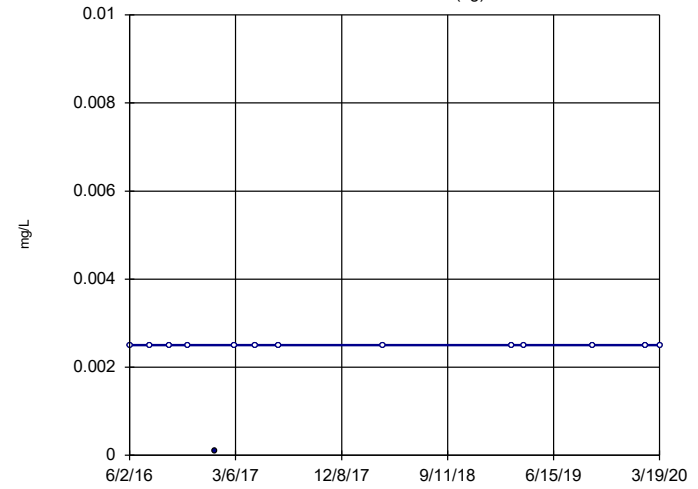
Sen's Slope Estimator YGWA-30I (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

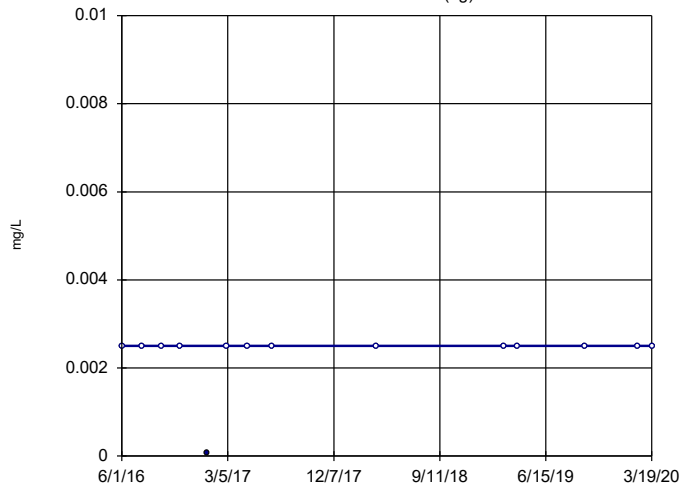
Sen's Slope Estimator YGWA-3D (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 5
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

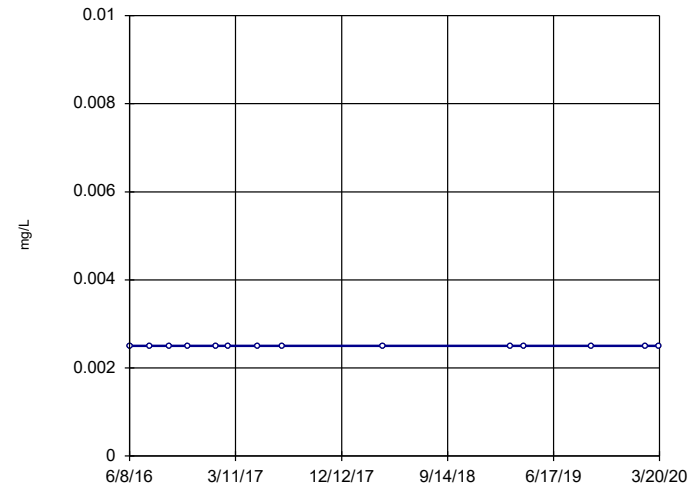
Sen's Slope Estimator YGWA-3I (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 5
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

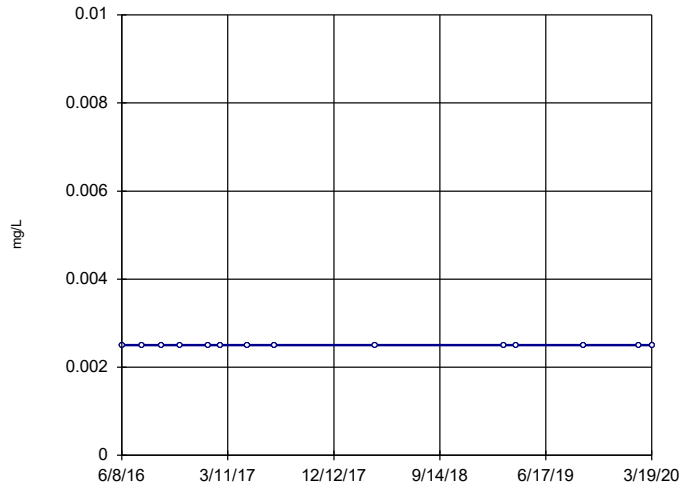
Sen's Slope Estimator YGWC-26I



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

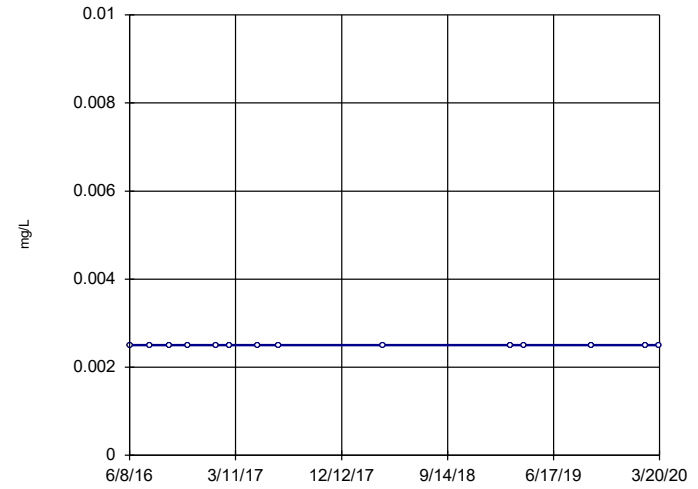
Sen's Slope Estimator YGWC-26S



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:46 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

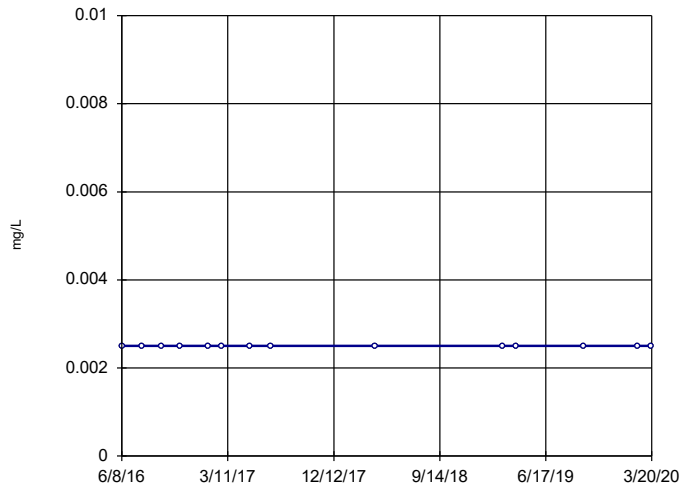
Sen's Slope Estimator YGWC-27I



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

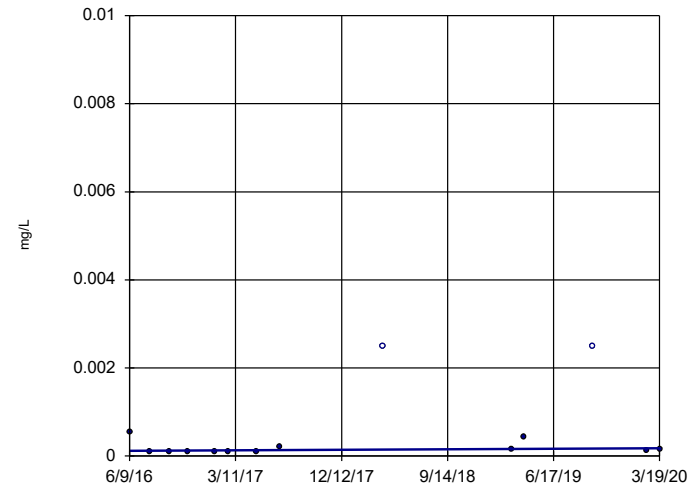
Sen's Slope Estimator YGWC-27S



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

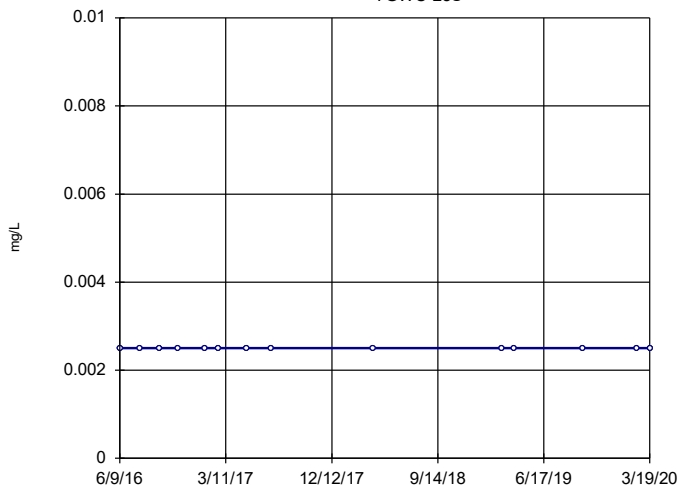
Sen's Slope Estimator YGWC-28I



n = 14
Slope = 0.00001653
units per year.
Mann-Kendall
statistic = 24
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

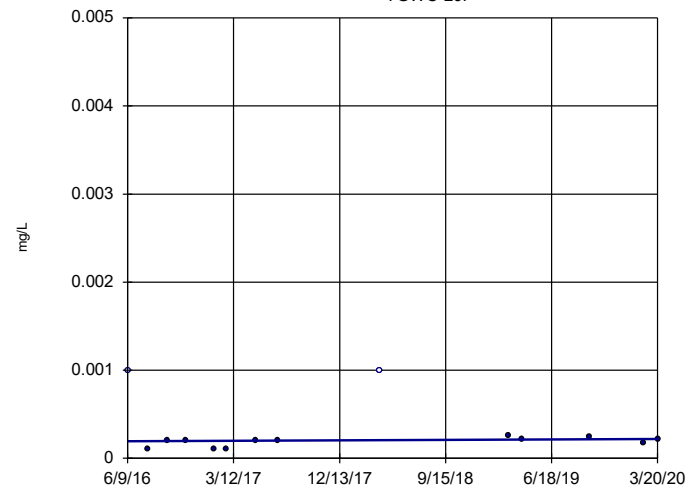
Sen's Slope Estimator
YGWC-28S



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

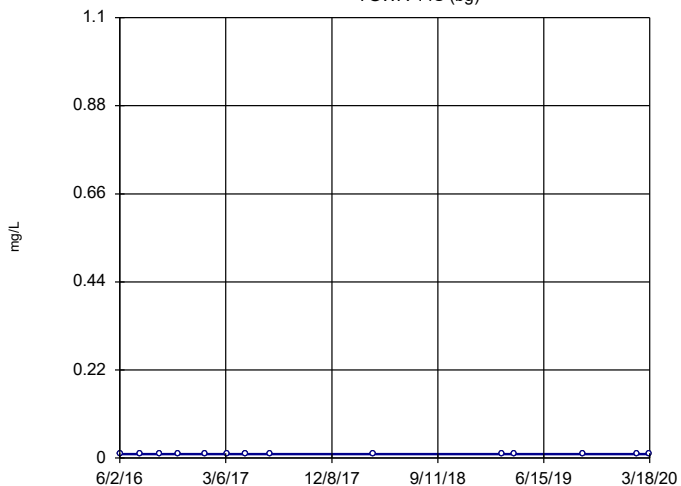
Sen's Slope Estimator
YGWC-29I



n = 14
Slope = 0.000006972
units per year.
Mann-Kendall
statistic = 16
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cadmium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

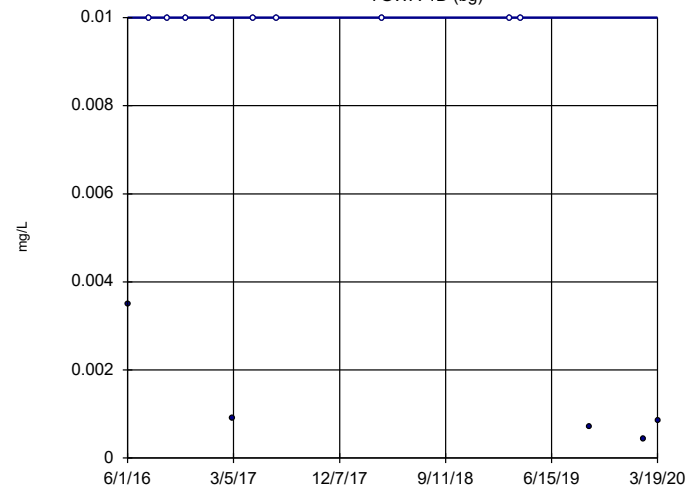
Sen's Slope Estimator
YGWA-14S (bg)



n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1D (bg)

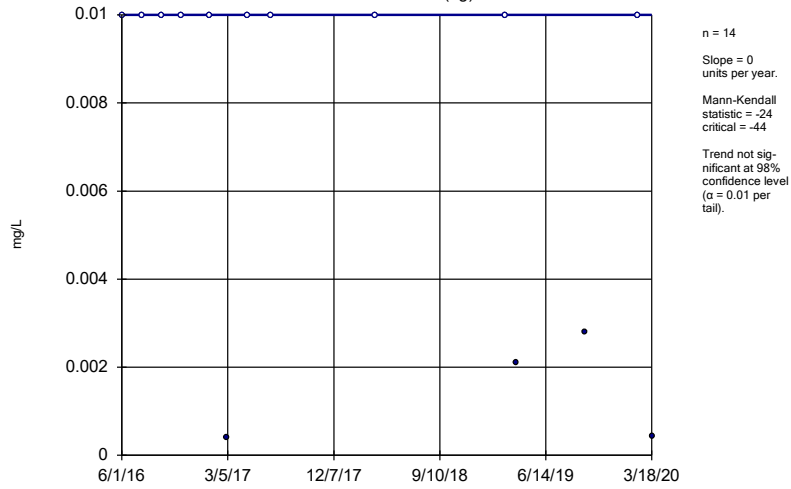


n = 14
Slope = 0
units per year.
Mann-Kendall
statistic = -23
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

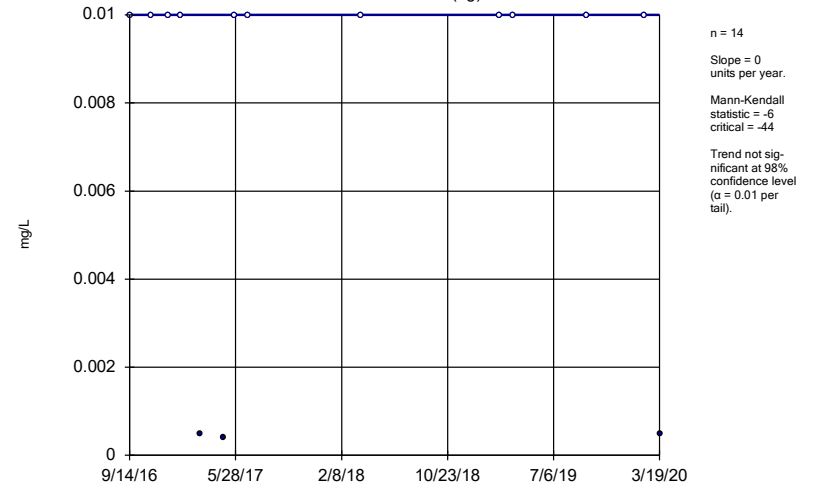
YGWA-11 (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

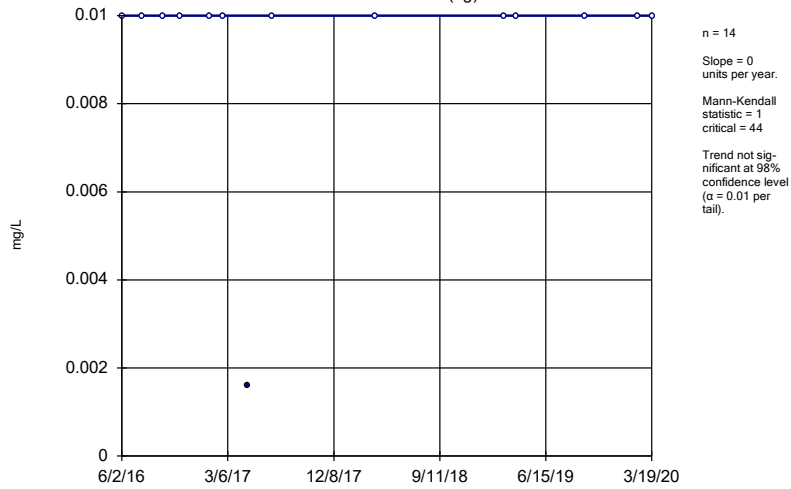
YGWA-21 (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

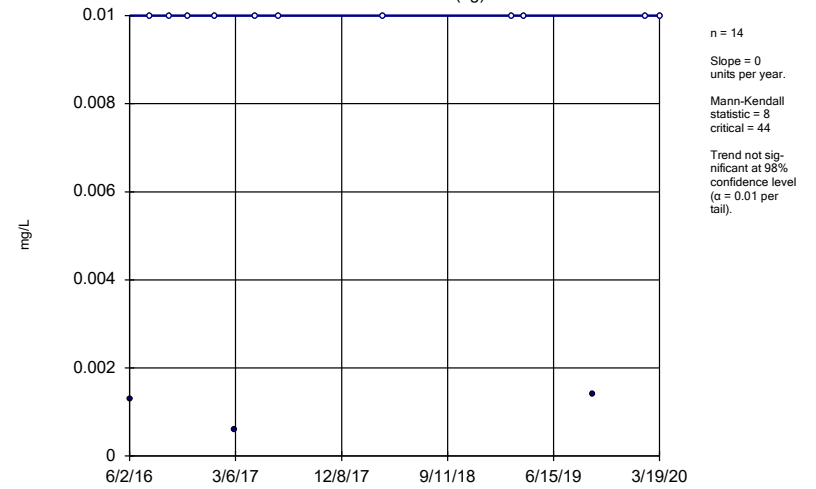
YGWA-30I (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

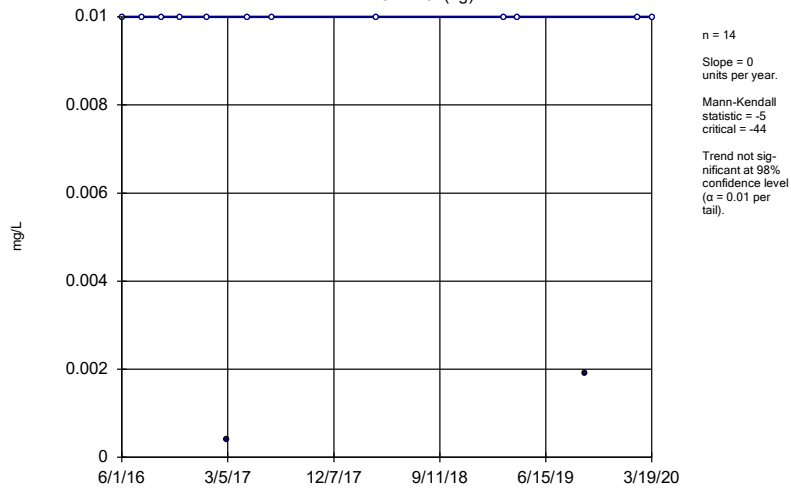
YGWA-3D (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

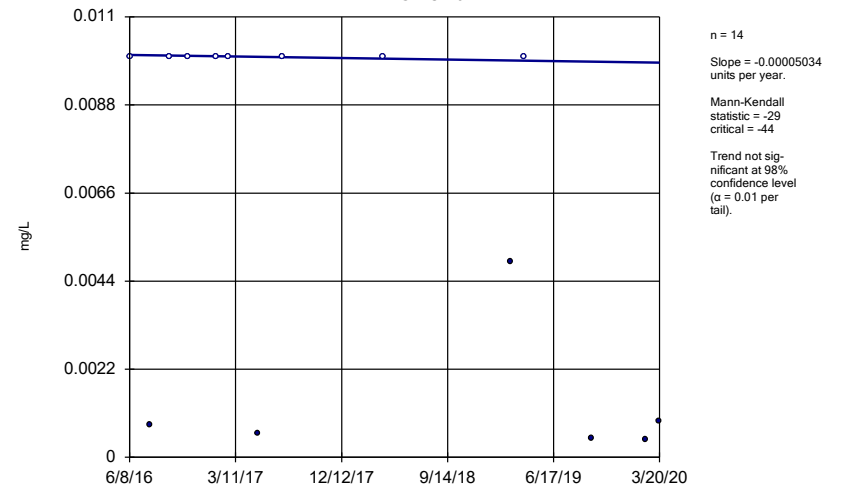
YGWA-3I (bg)



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

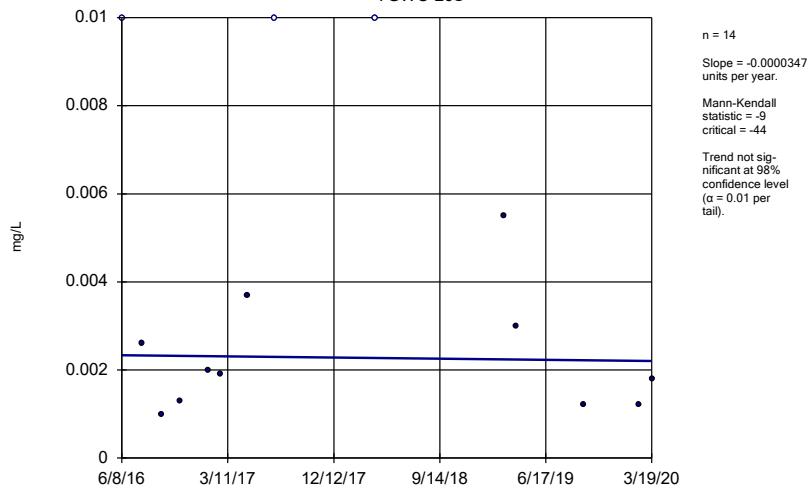
YGWC-26I



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

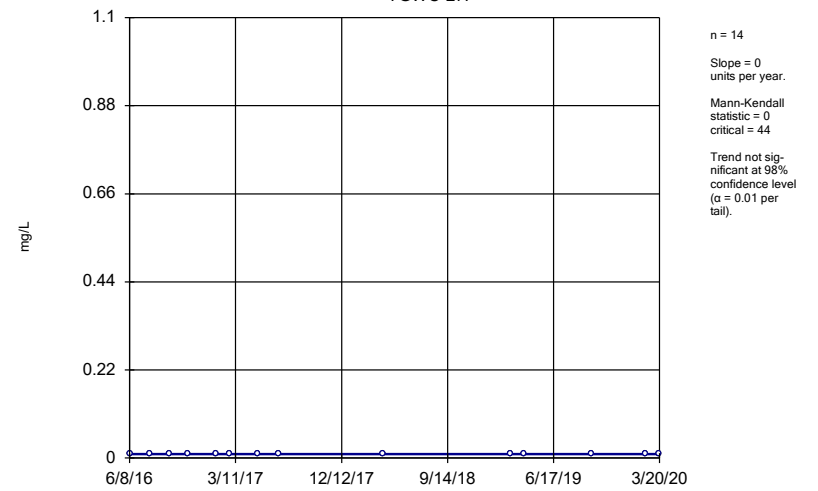
YGWC-26S



Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

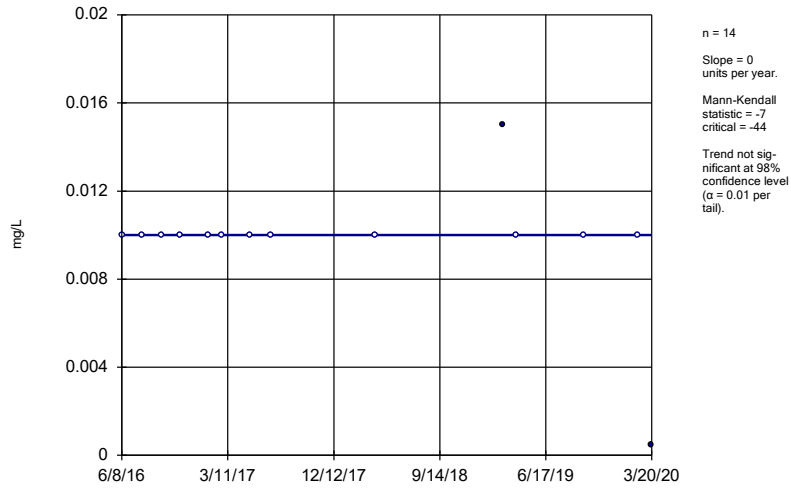
Sen's Slope Estimator

YGWC-27I



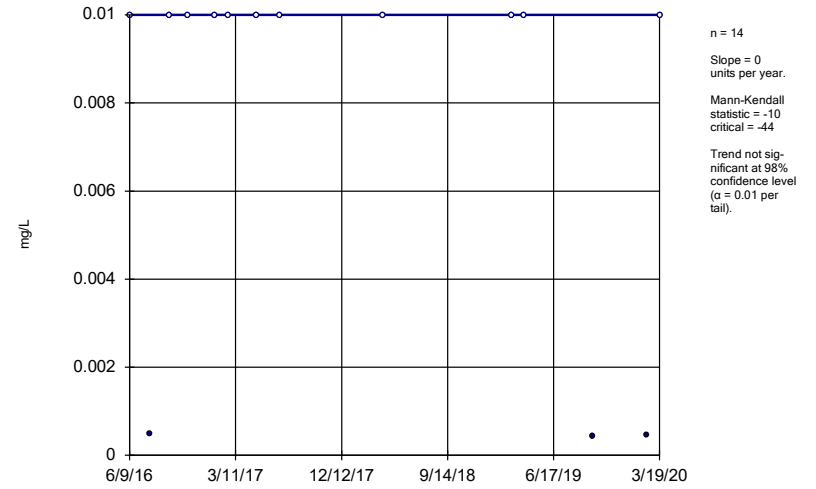
Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



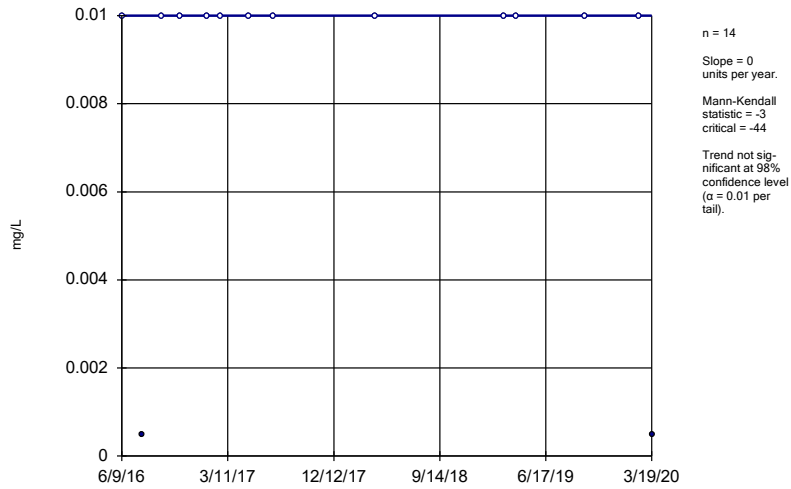
Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



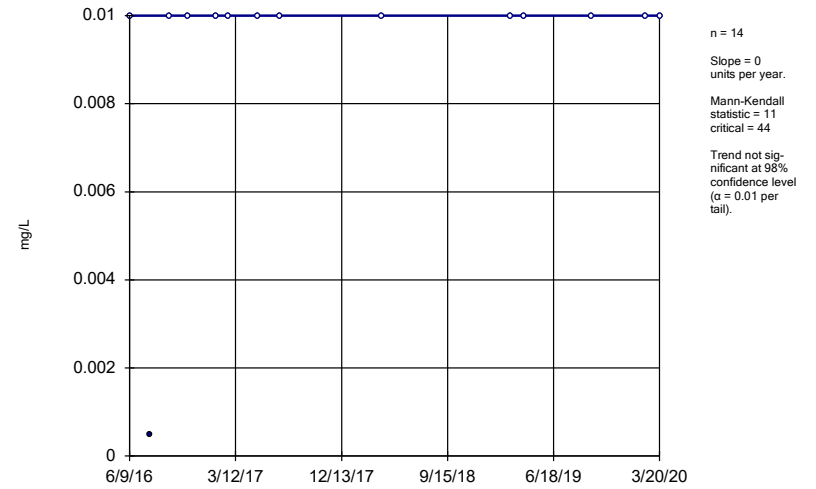
Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



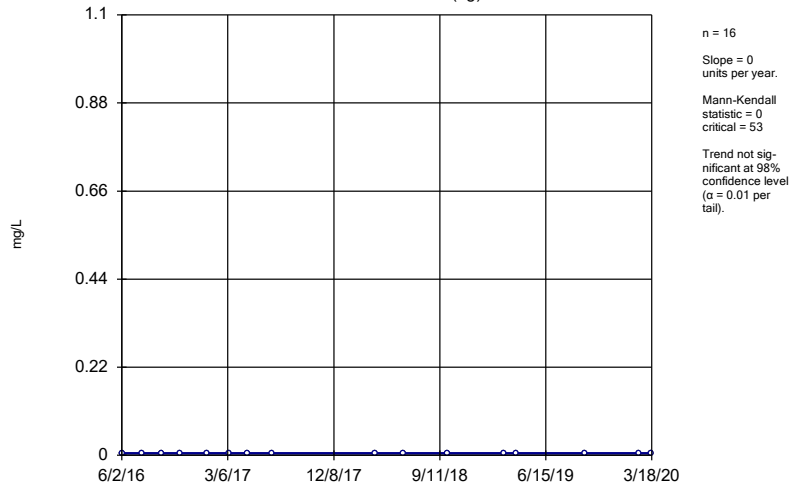
Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



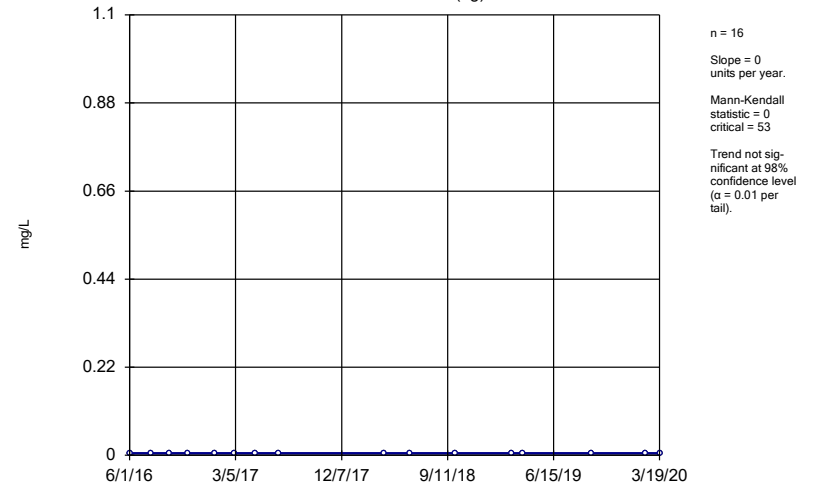
Constituent: Chromium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-14S (bg)



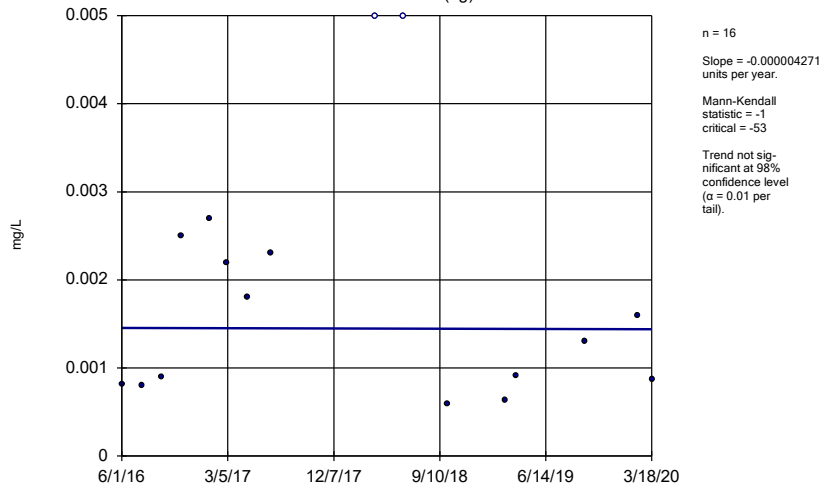
Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1D (bg)



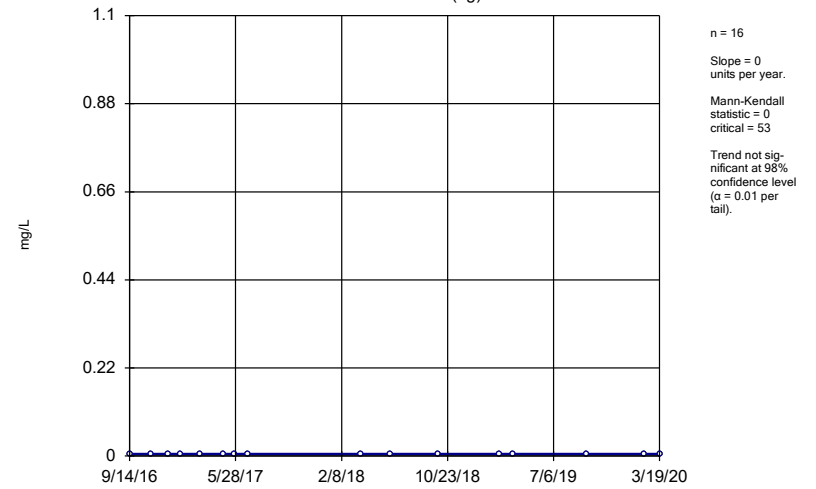
Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-11 (bg)



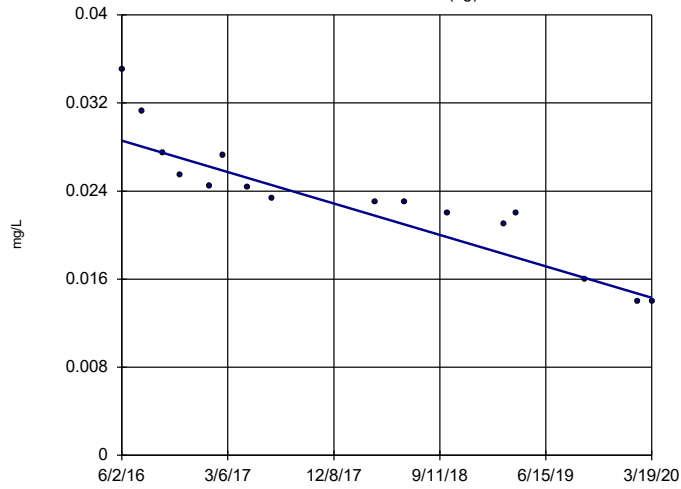
Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-2I (bg)



Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)

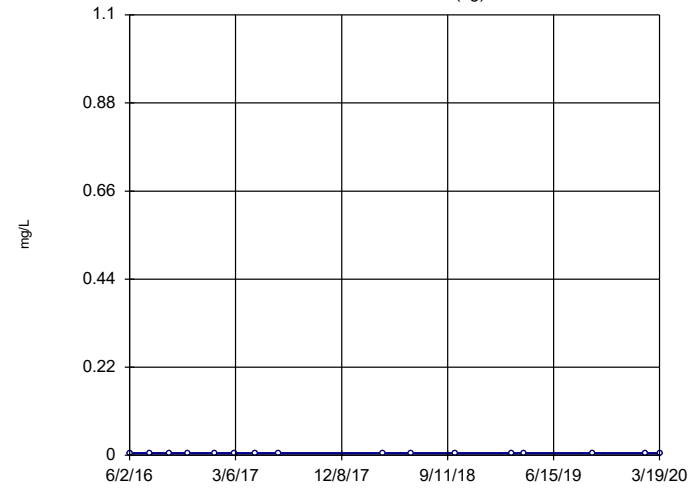


n = 16
 Slope = -0.003763
 units per year.
 Mann-Kendall
 statistic = -111
 critical = -53
 Decreasing trend
 significant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

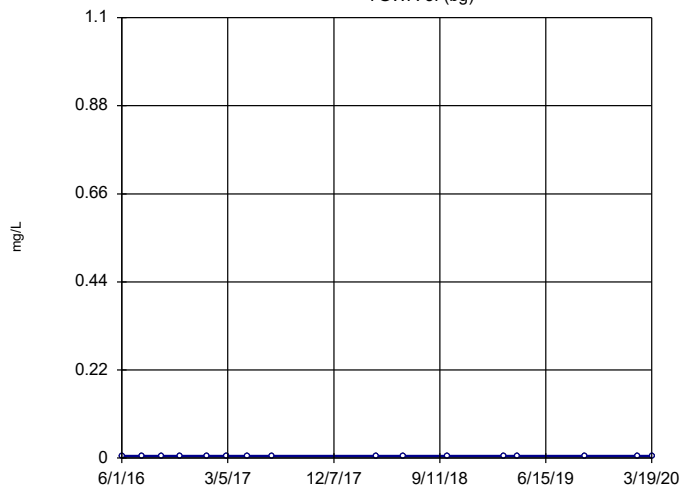
Sen's Slope Estimator YGWA-3D (bg)



n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

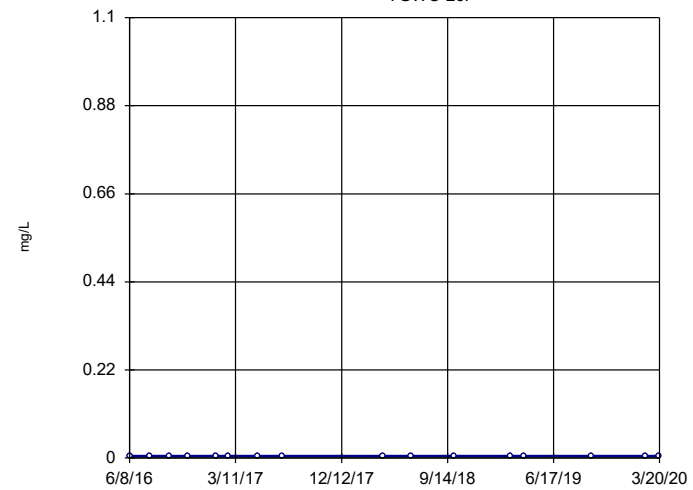
Sen's Slope Estimator YGWA-3I (bg)



n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I

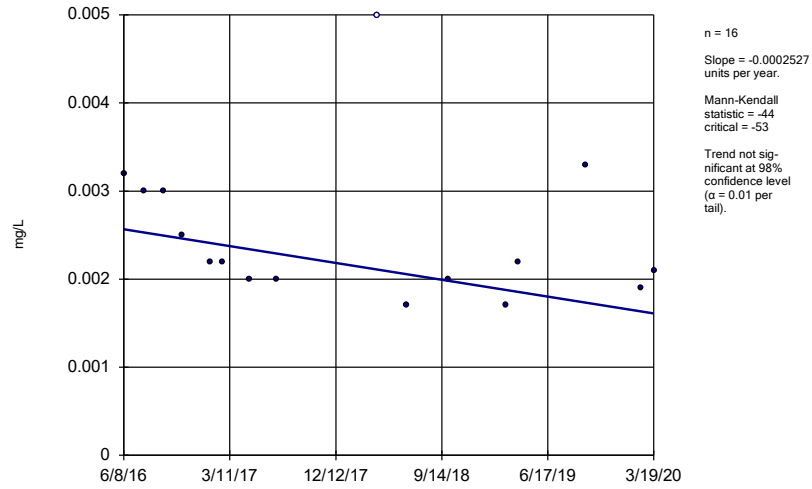


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 (α = 0.01 per
 tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

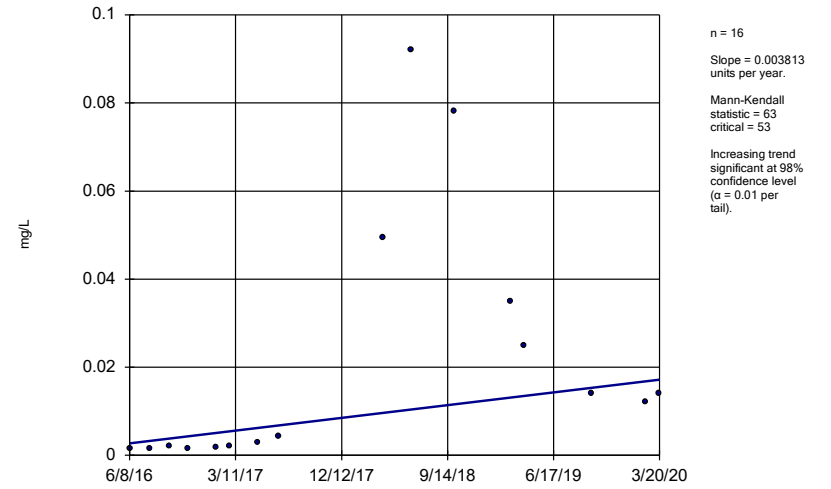
YGWC-26S



Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

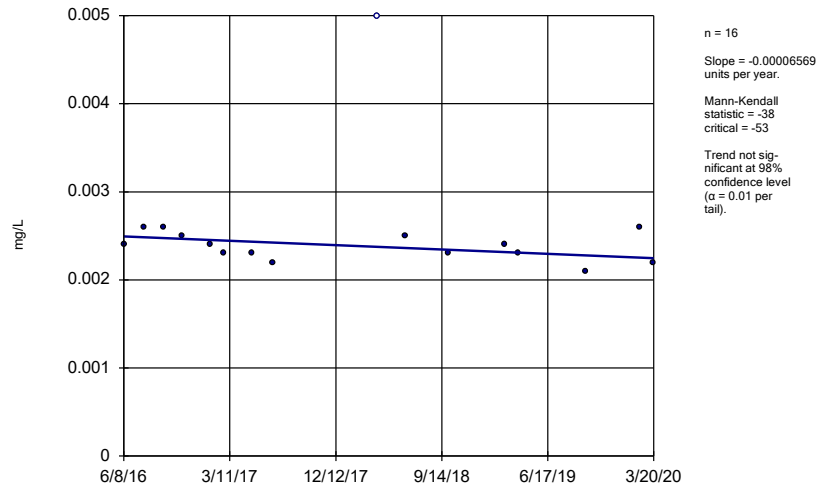
YGWC-27I



Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

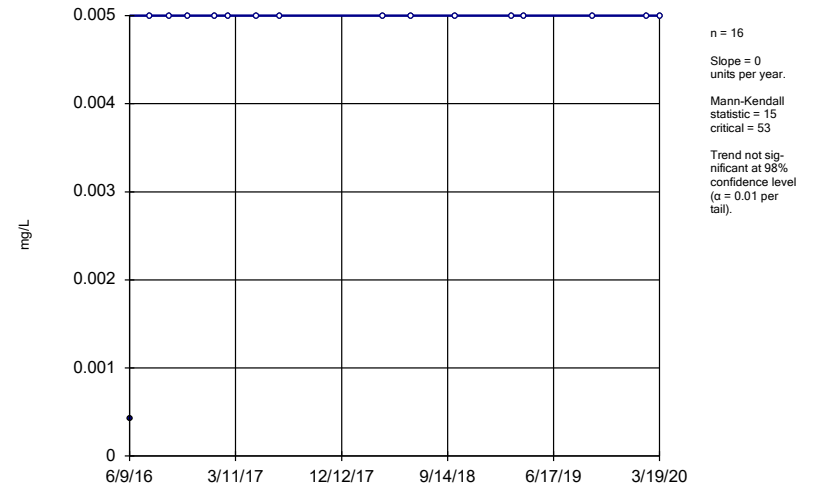
YGWC-27S



Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

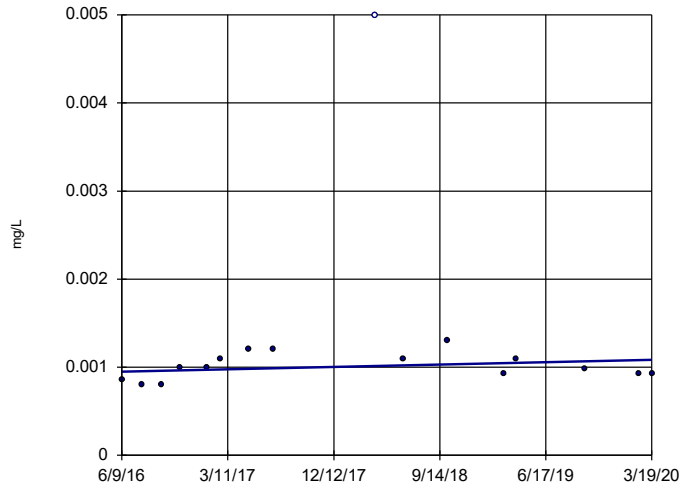
YGWC-28I



Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28S

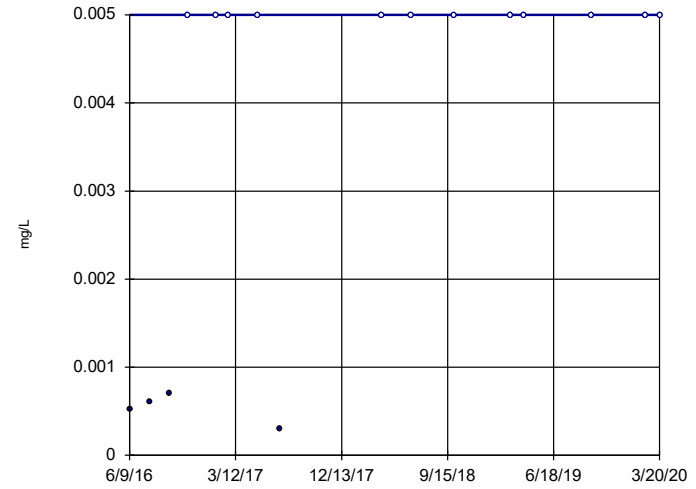


n = 16
Slope = 0.00003557
units per year.
Mann-Kendall
statistic = 17
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-29I

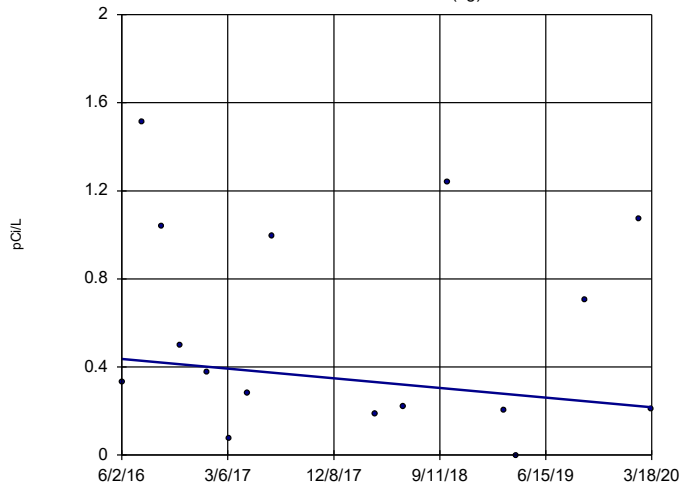


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 40
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Cobalt Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-14S (bg)

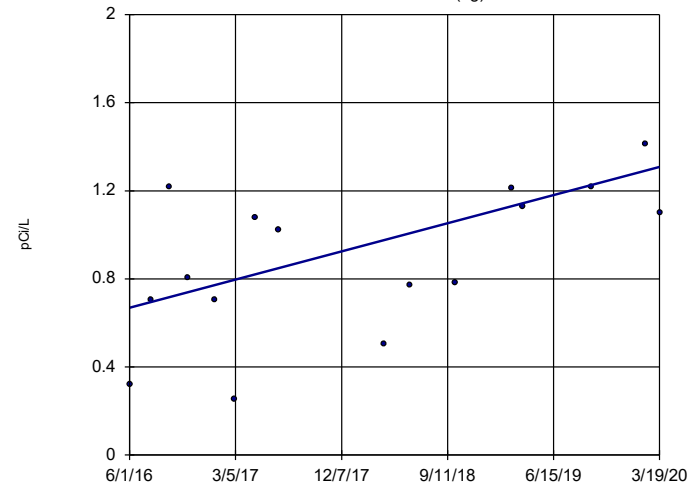


n = 16
Slope = -0.05778
units per year.
Mann-Kendall
statistic = -22
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

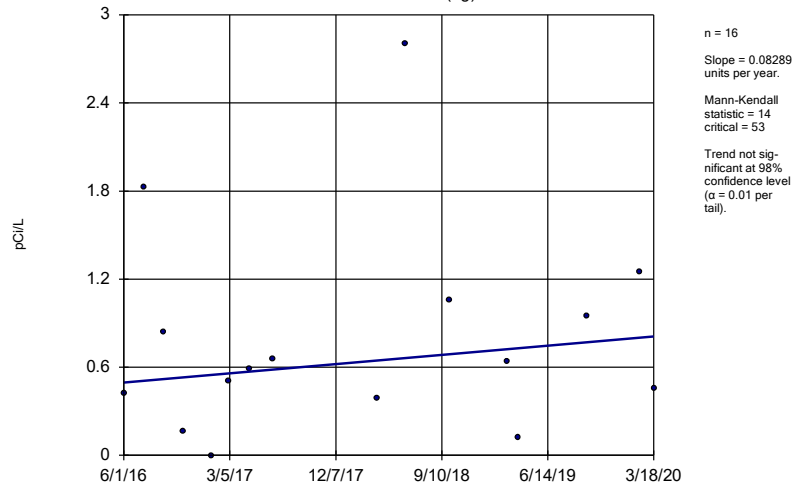
YGWA-1D (bg)



n = 16
Slope = 0.1682
units per year.
Mann-Kendall
statistic = 51
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

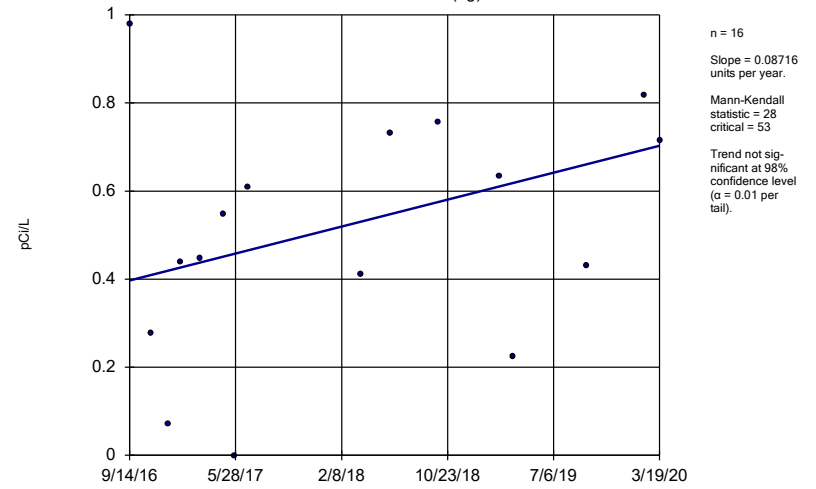
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-11 (bg)



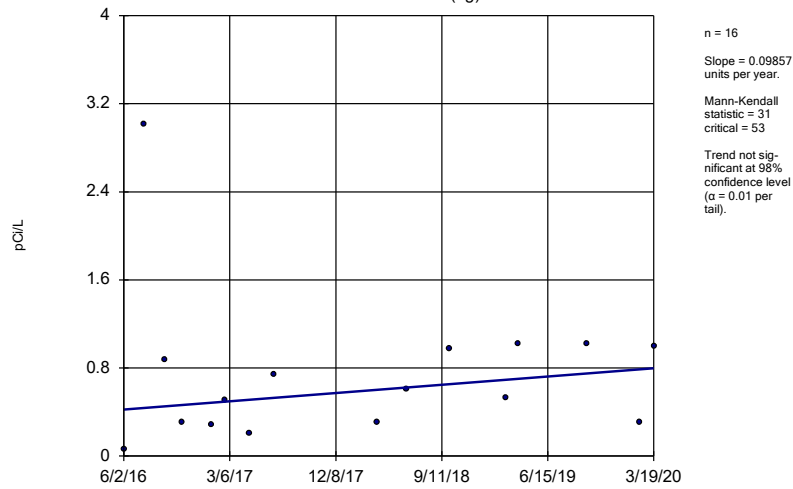
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-21 (bg)



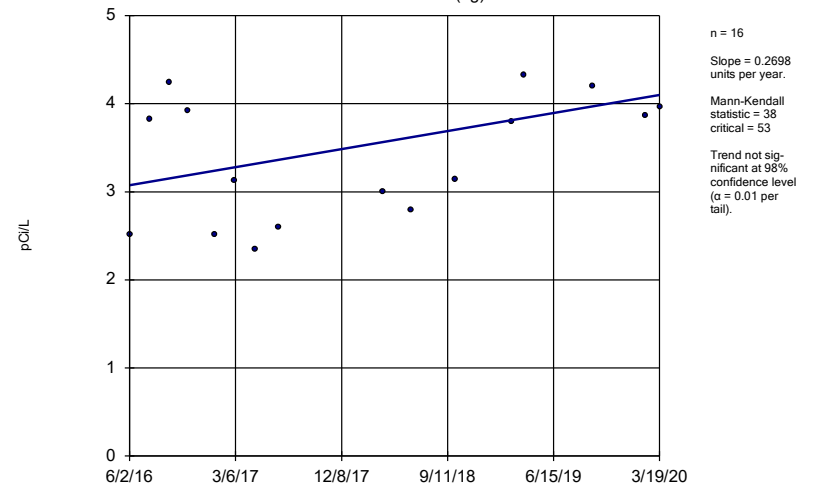
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-30I (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

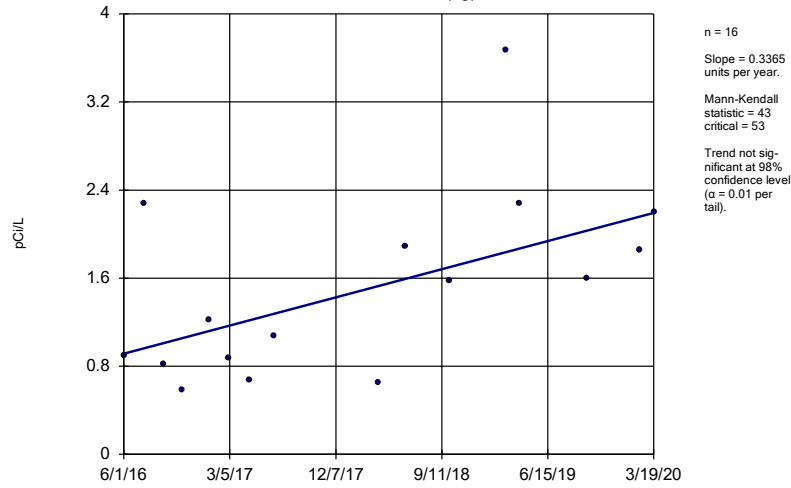
Sen's Slope Estimator
YGWA-3D (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

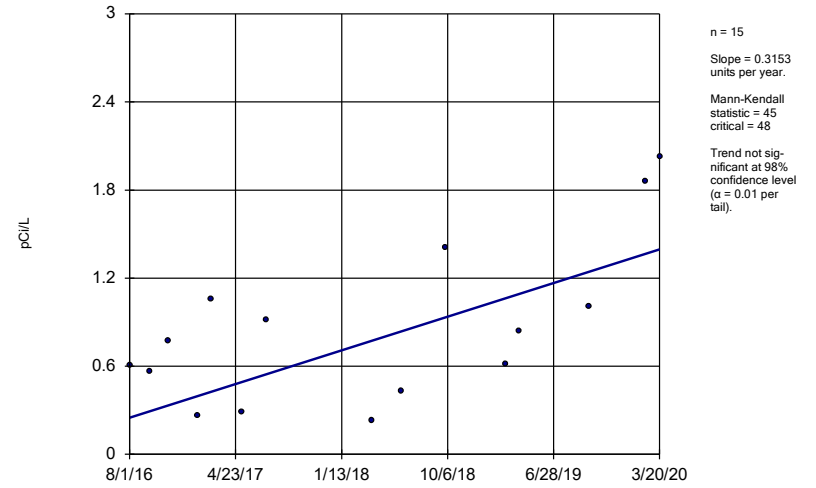
YGWA-3I (bg)



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

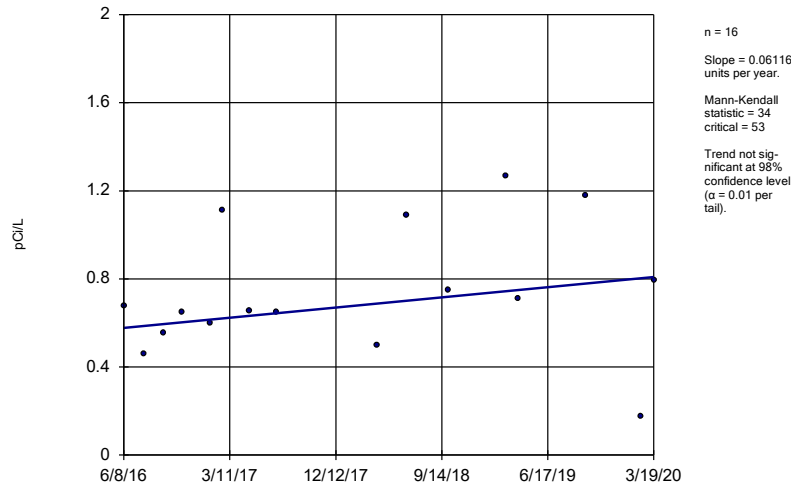
YGWC-26I



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

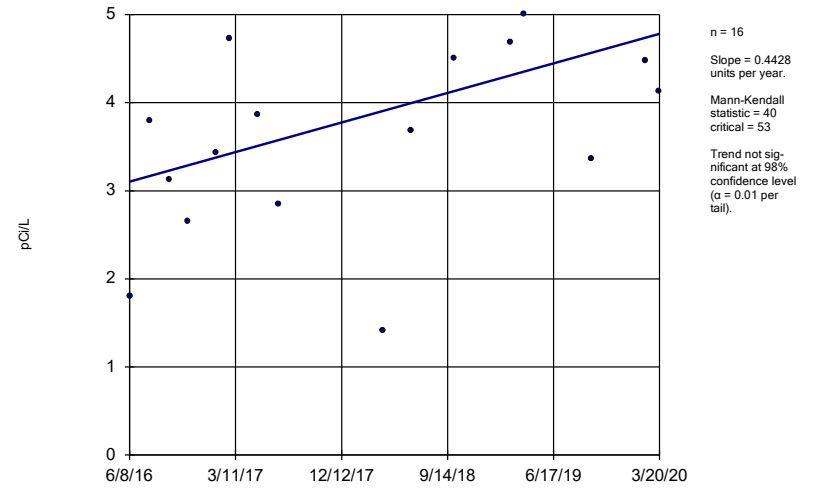
YGWC-26S



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

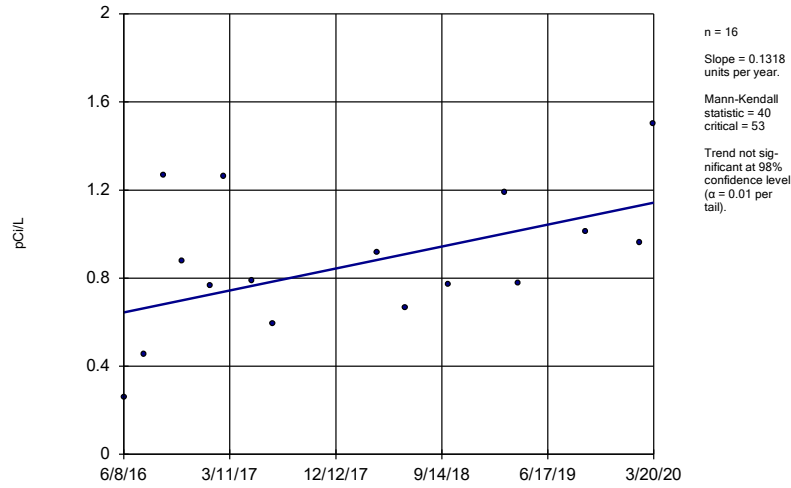
Sen's Slope Estimator

YGWC-27I



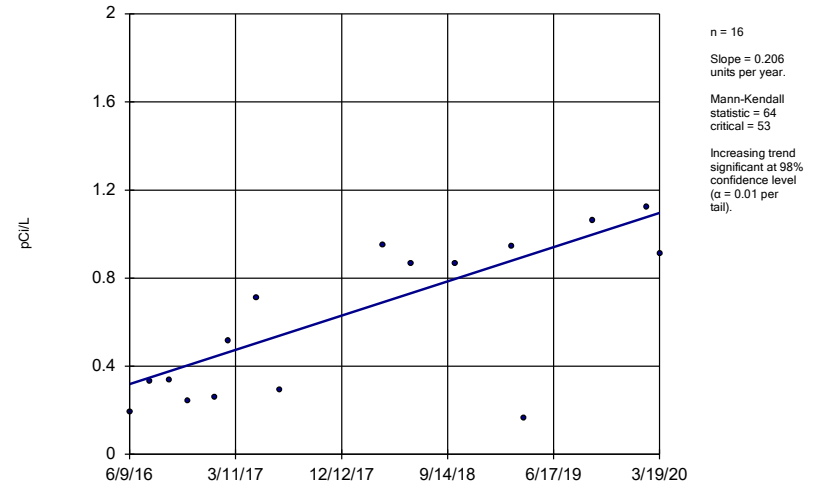
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



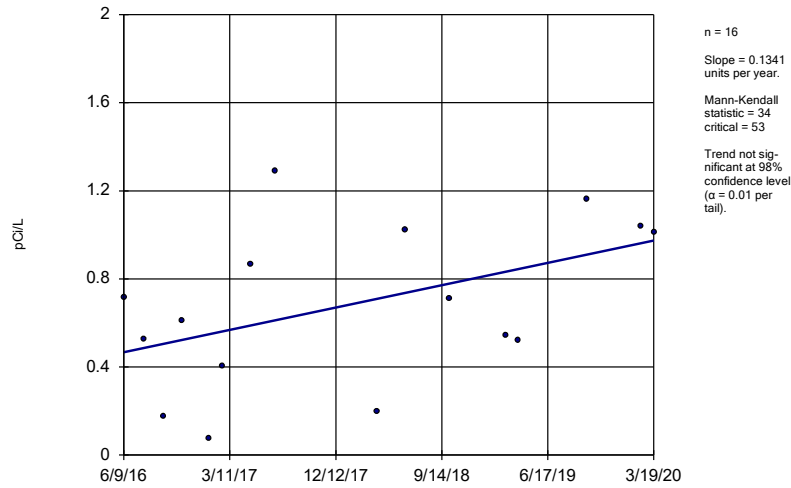
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



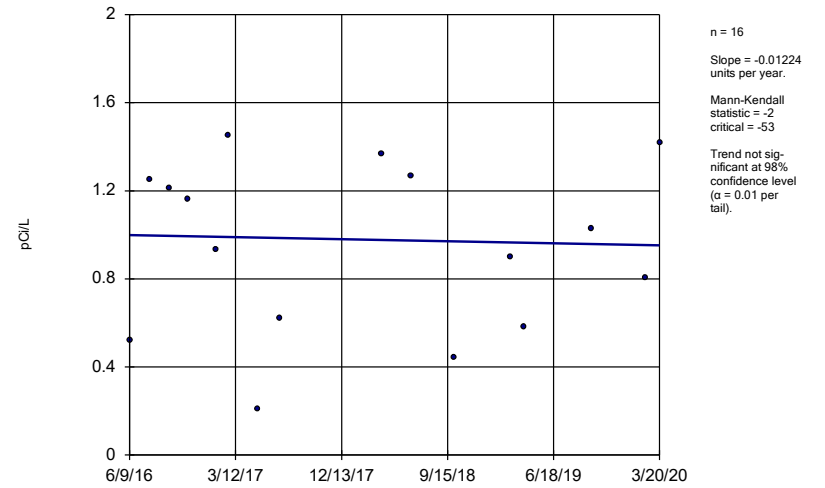
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



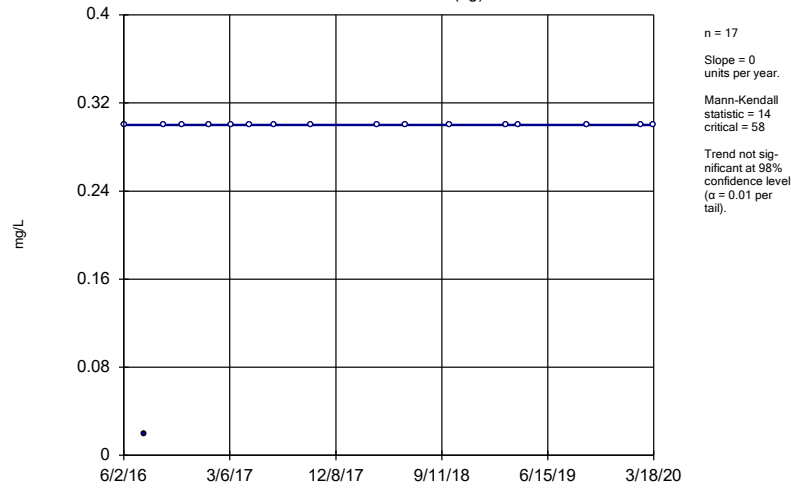
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



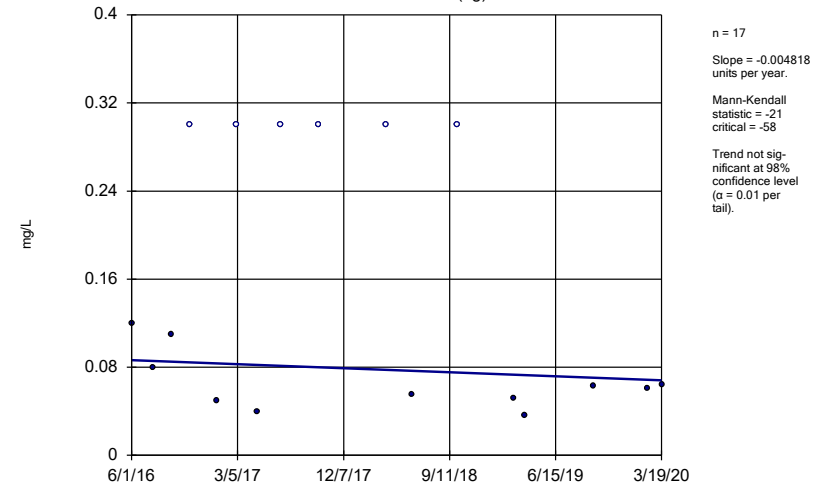
Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-14S (bg)



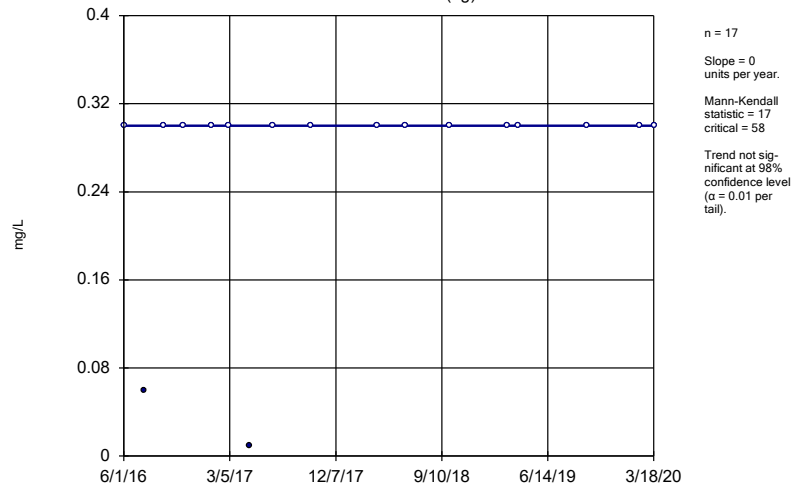
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1D (bg)



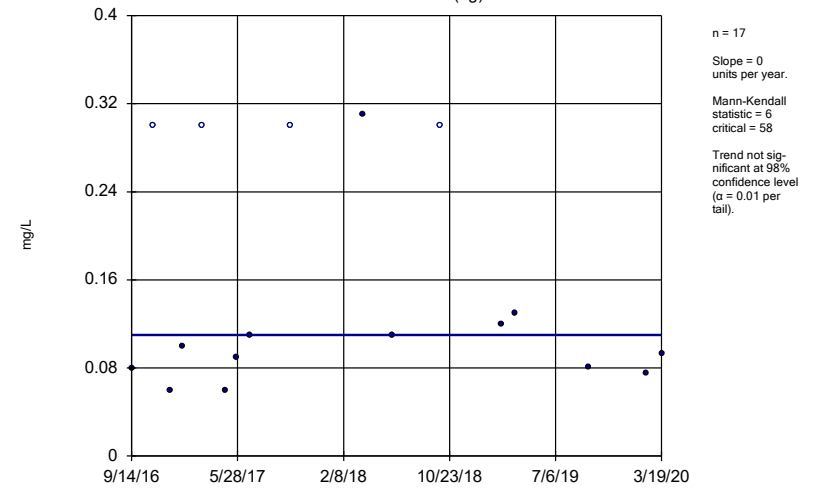
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-11 (bg)



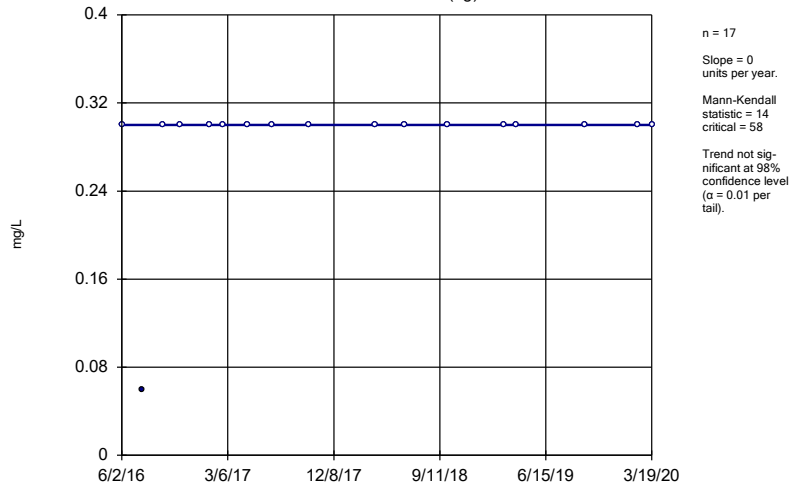
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-2I (bg)



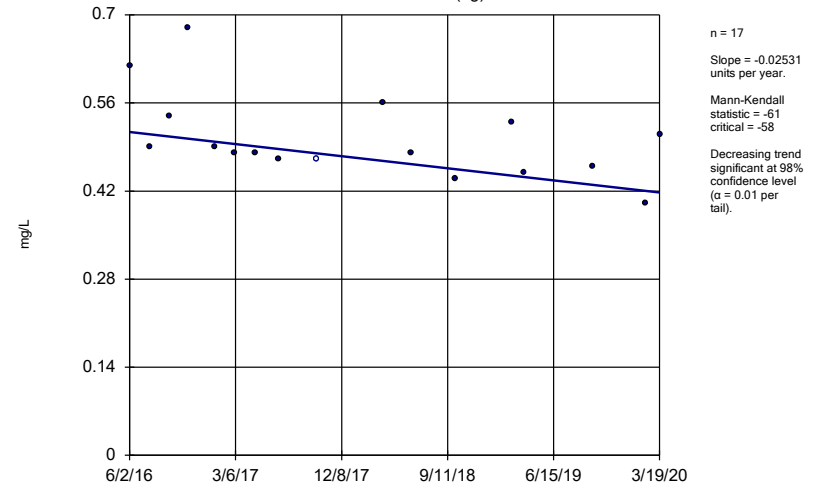
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-30I (bg)



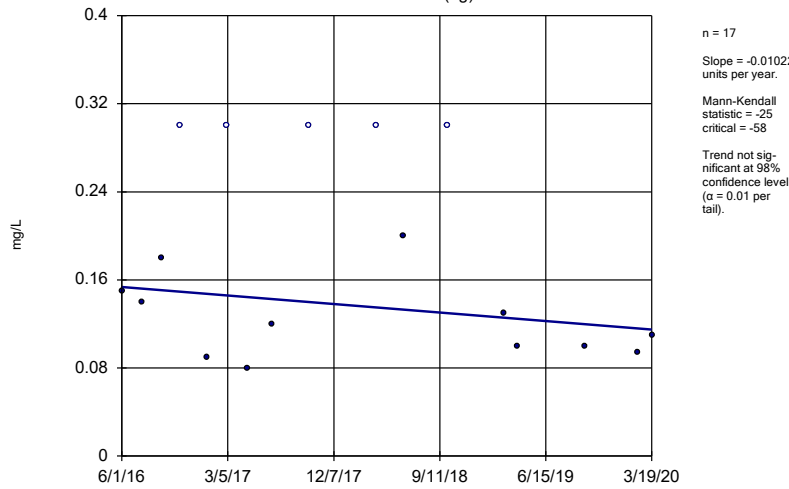
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-3D (bg)



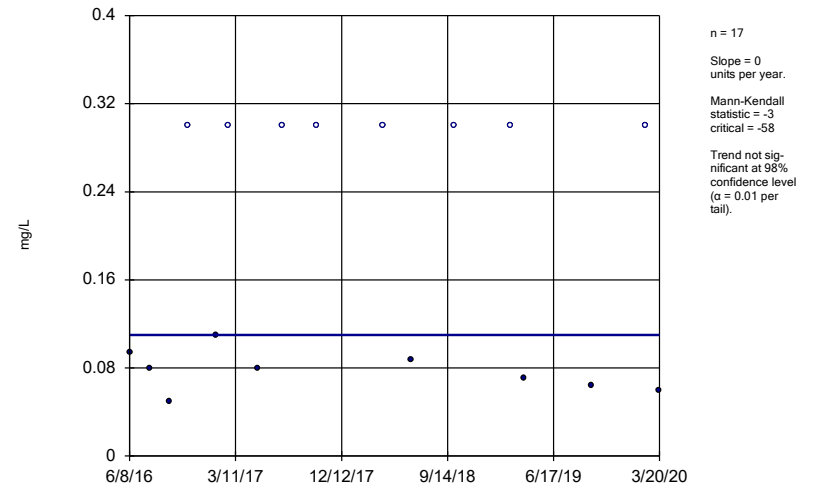
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-3I (bg)



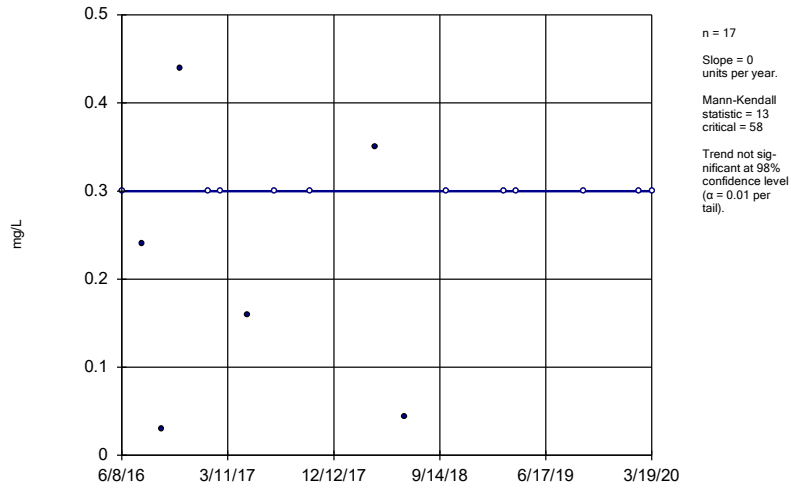
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-26I



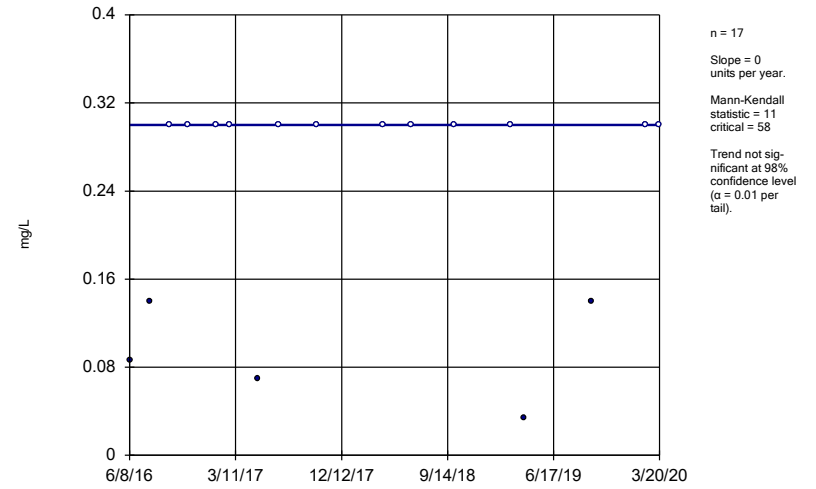
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



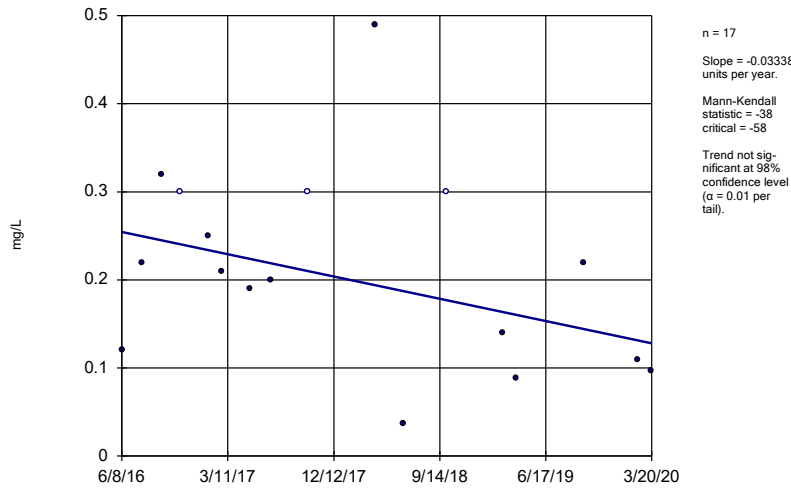
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



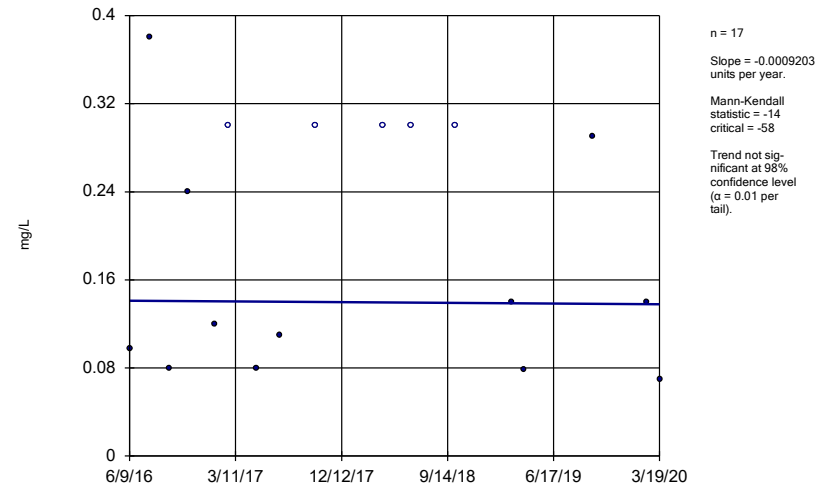
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



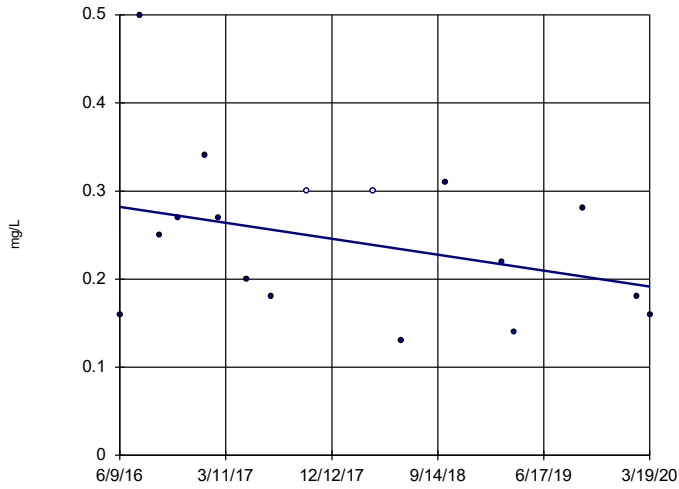
Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

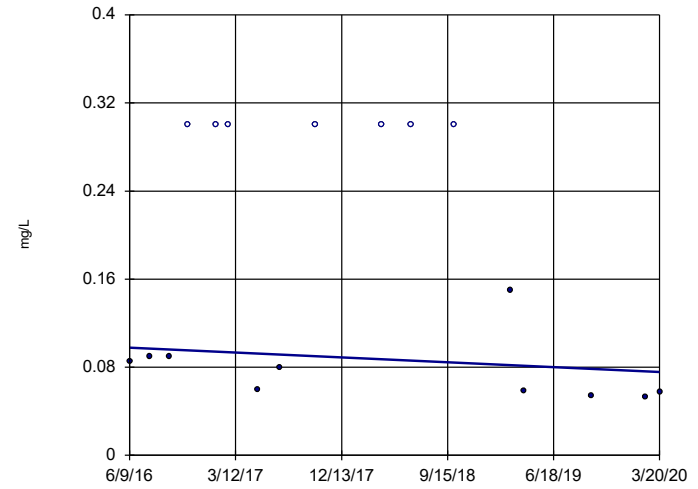
Sen's Slope Estimator YGWC-28S



n = 17
Slope = -0.02391
units per year.
Mann-Kendall
statistic = -30
critical = -58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

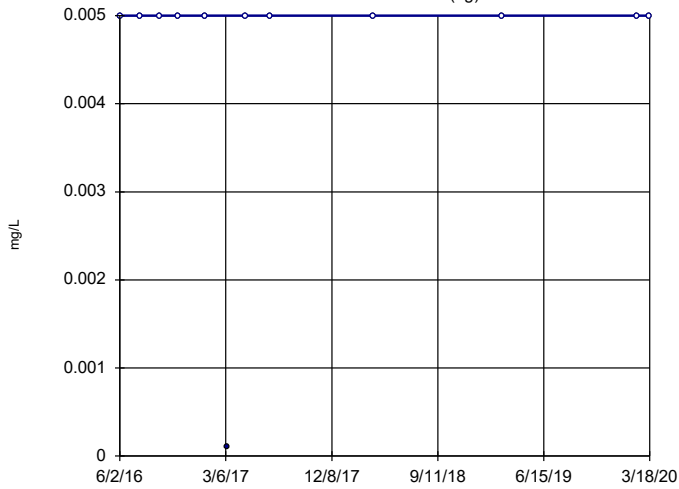
Sen's Slope Estimator YGWC-29I



n = 17
Slope = -0.005777
units per year.
Mann-Kendall
statistic = -36
critical = -58
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Fluoride Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

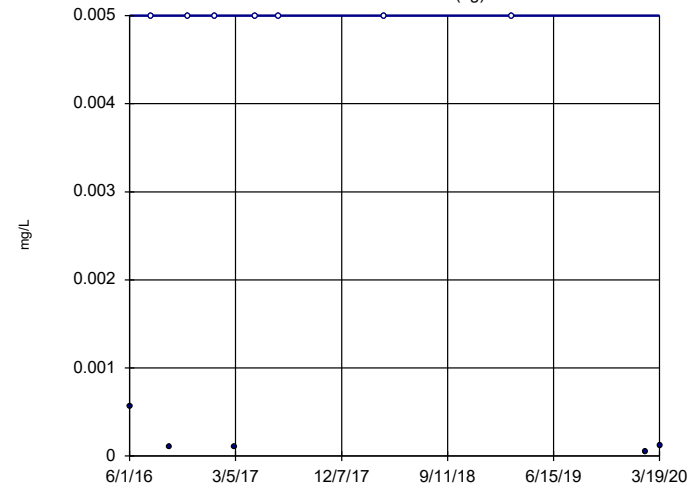
Sen's Slope Estimator YGWA-14S (bg)



n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 1
critical = 35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

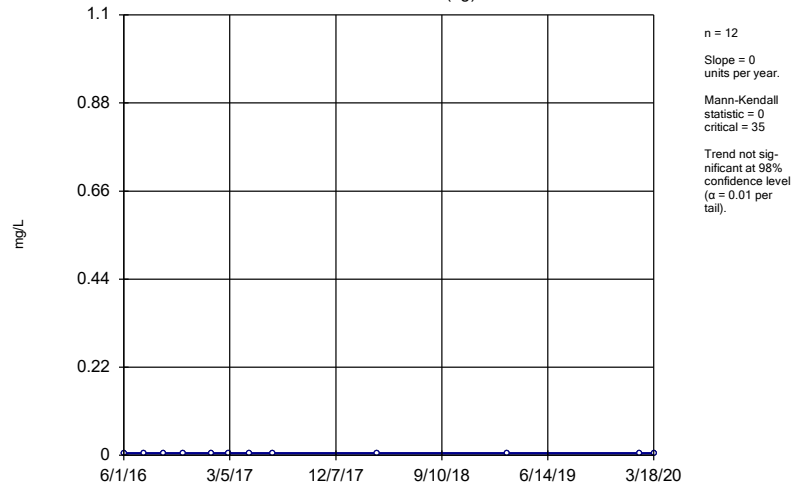
Sen's Slope Estimator YGWA-1D (bg)



n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = -4
critical = -35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

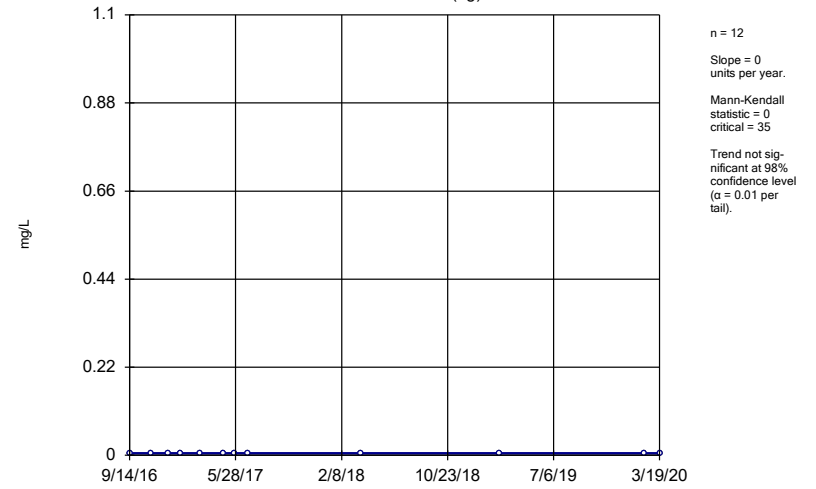
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



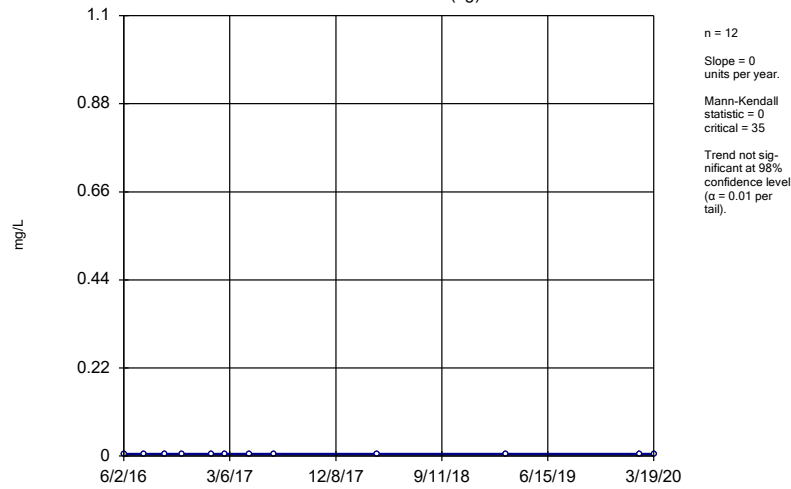
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-21 (bg)



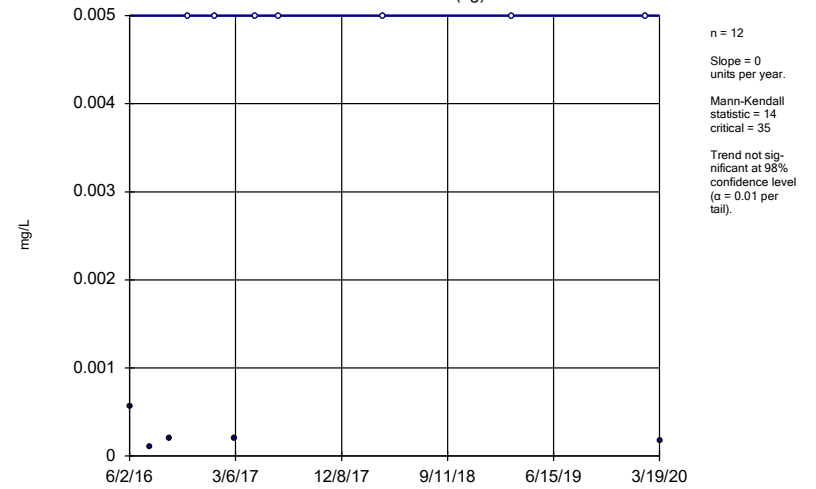
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



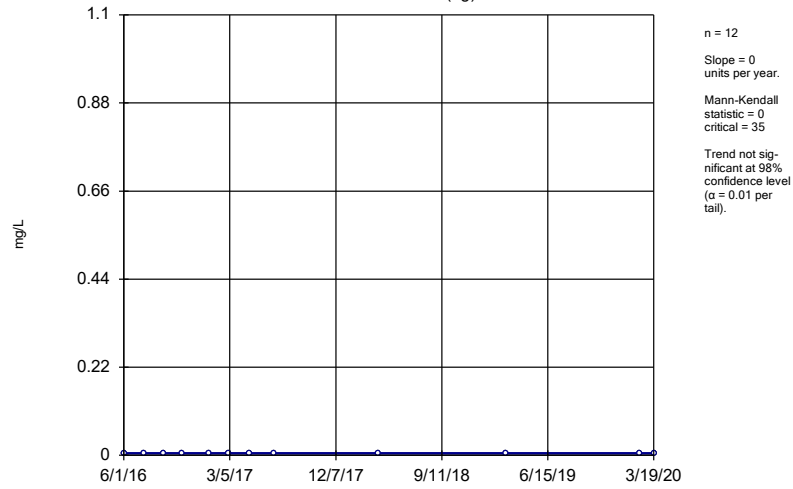
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



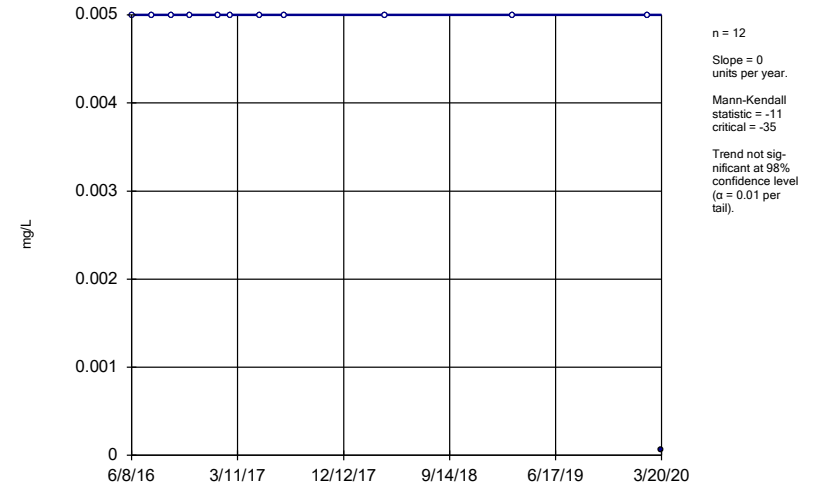
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



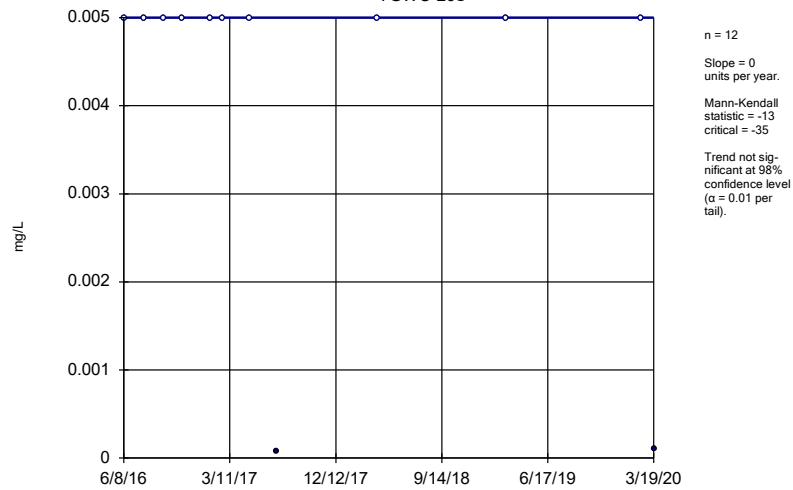
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



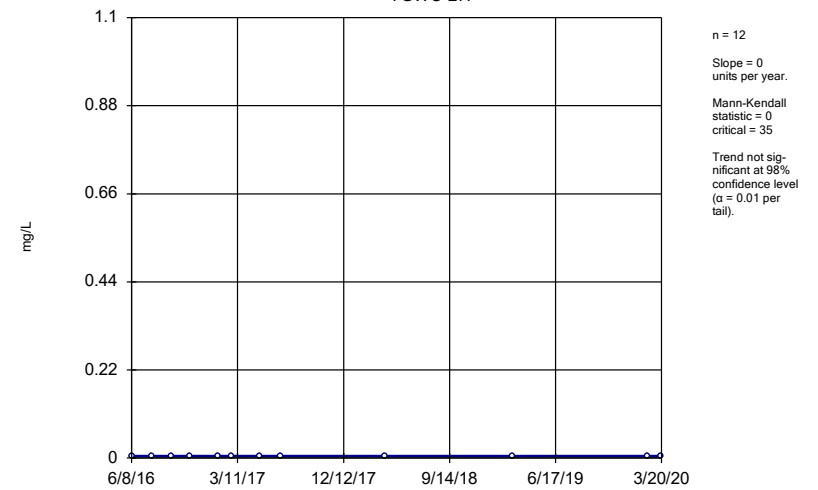
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

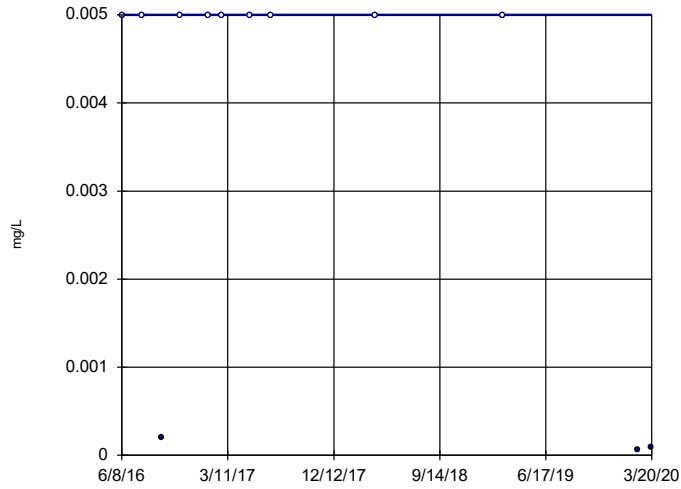
Sen's Slope Estimator YGWC-27I



Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-27S

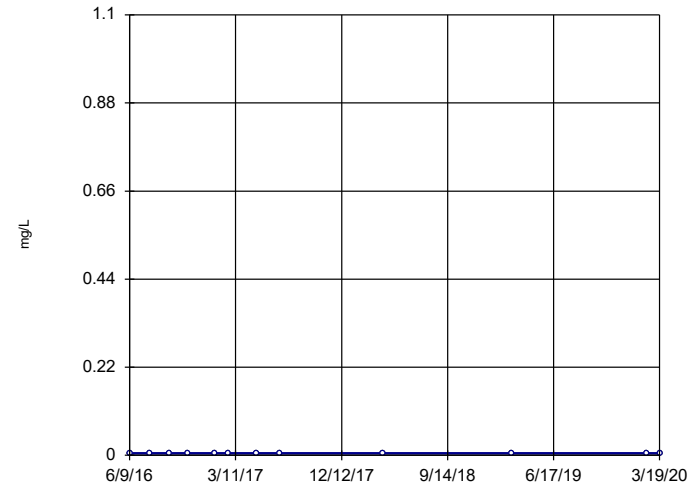


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = -14
critical = -35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28I

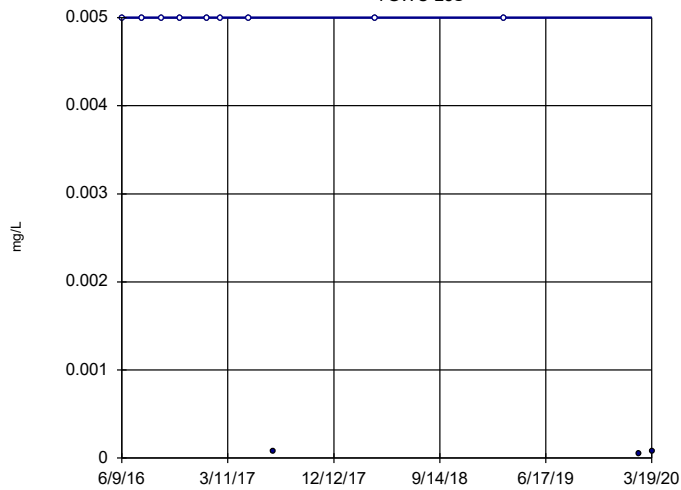


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28S

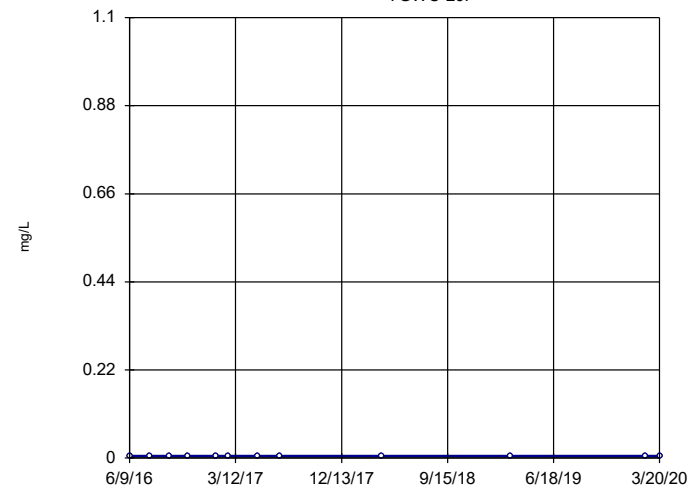


n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = -22
critical = -35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

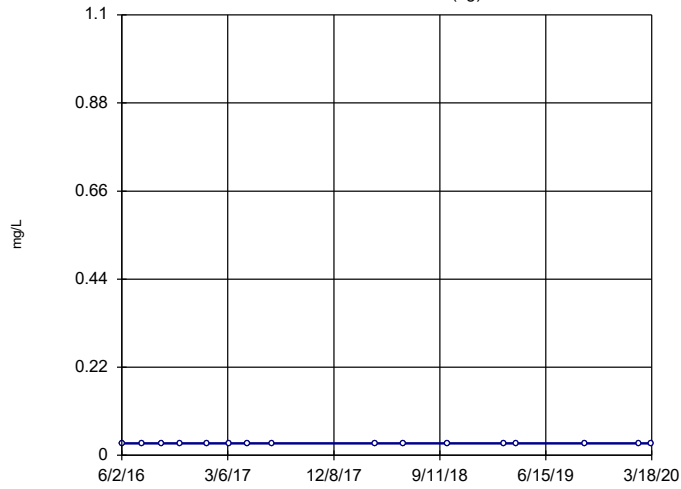
YGWC-29I



n = 12
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 35
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

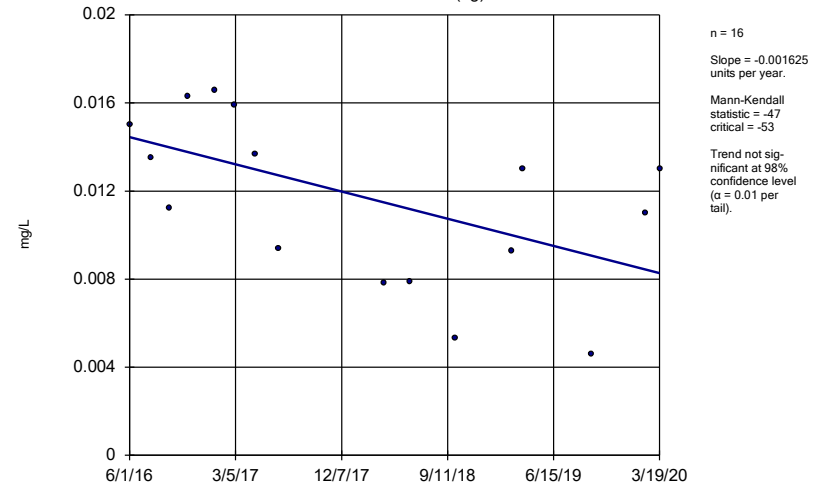
Constituent: Lead Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



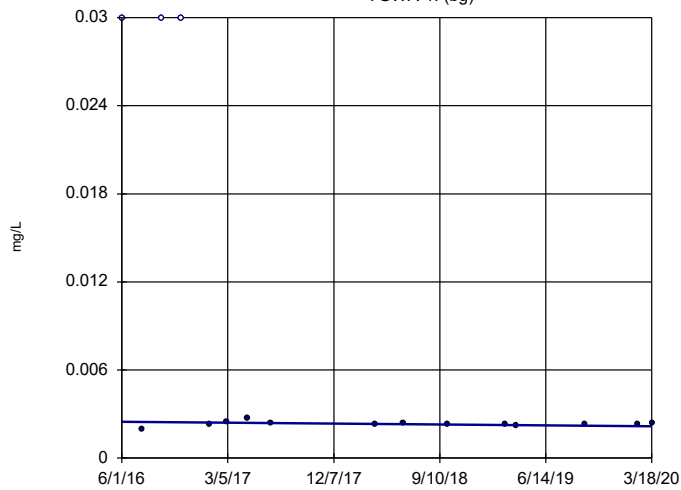
Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



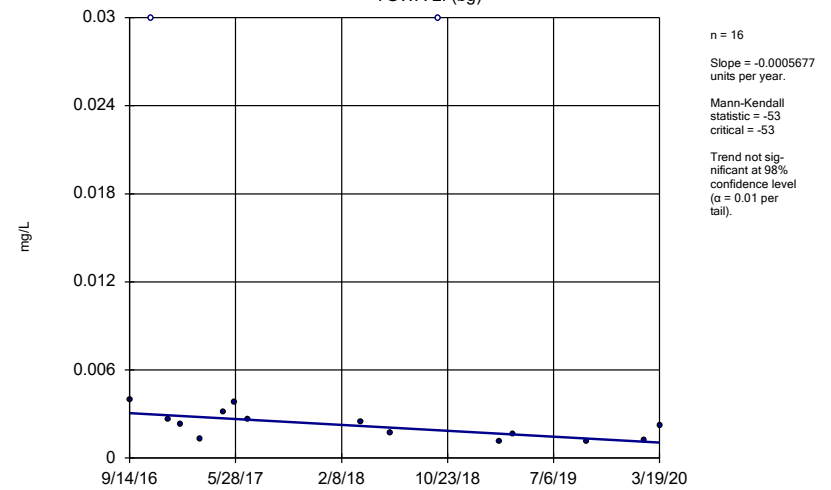
Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



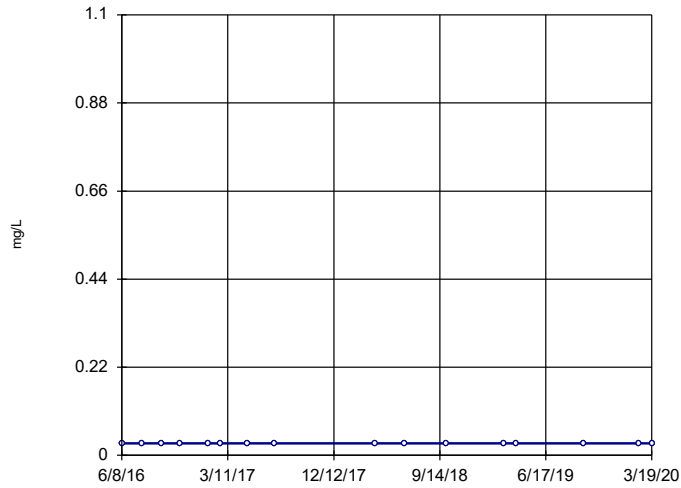
Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-2I (bg)



Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

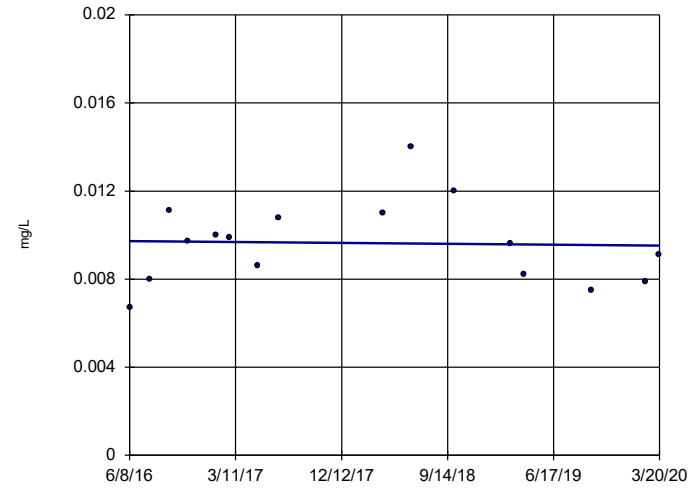
Sen's Slope Estimator YGWC-26S



n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

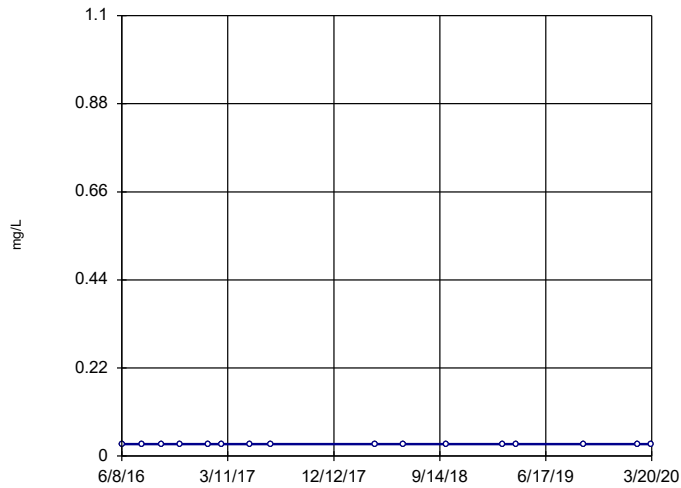
Sen's Slope Estimator YGWC-27I



n = 16
Slope = -0.00005456
units per year.
Mann-Kendall
statistic = -4
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

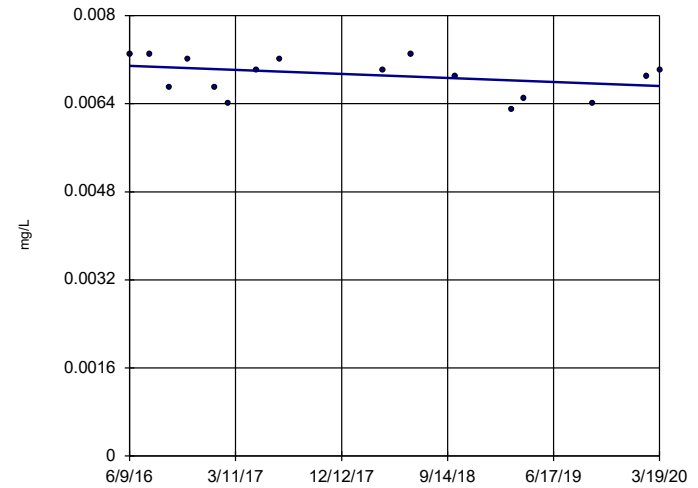
Sen's Slope Estimator YGWC-27S



n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

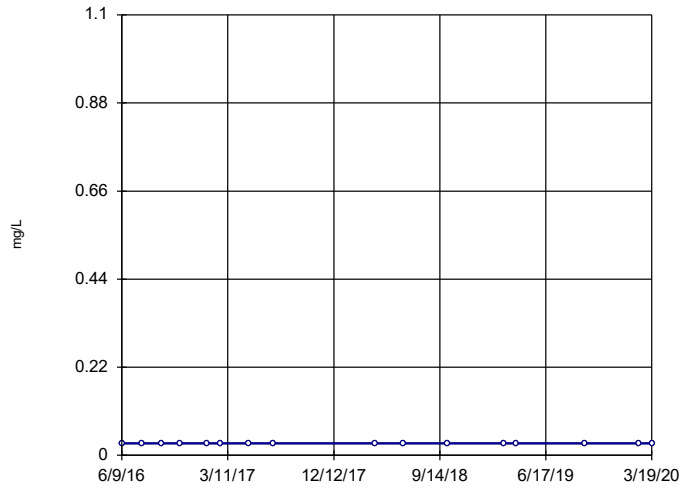
Sen's Slope Estimator YGWC-28I



n = 16
Slope = -0.00009645
units per year.
Mann-Kendall
statistic = -34
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

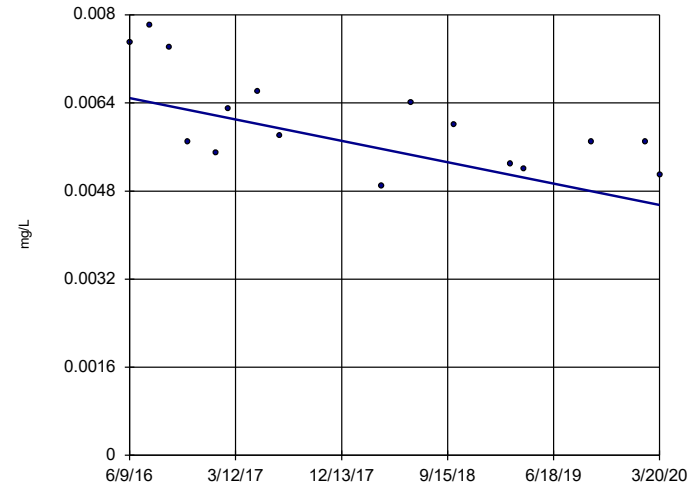
Sen's Slope Estimator
YGWC-28S



n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

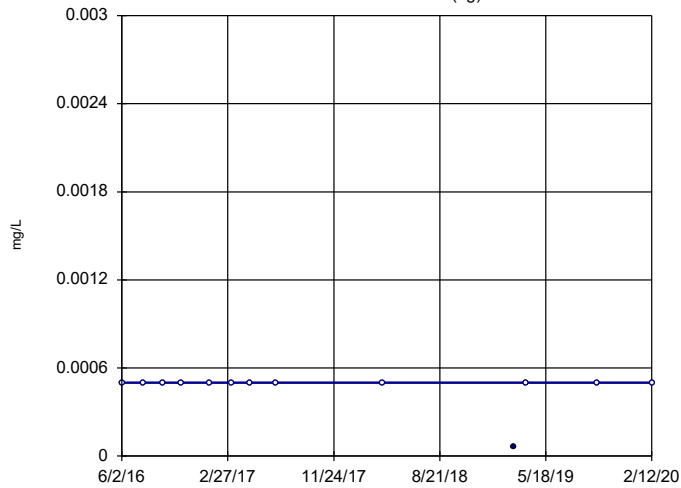
Sen's Slope Estimator
YGWC-29I



n = 16
Slope = -0.0005137
units per year.
Mann-Kendall
statistic = -61
critical = -53
Decreasing trend
significant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Lithium Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

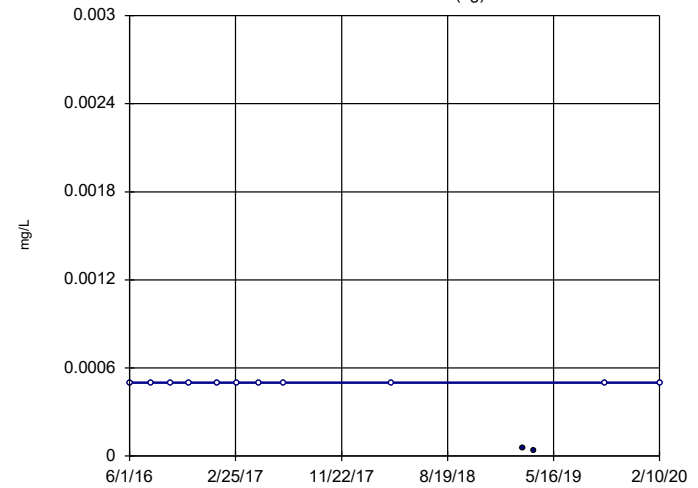
Sen's Slope Estimator
YGWA-14S (bg)



n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -6
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

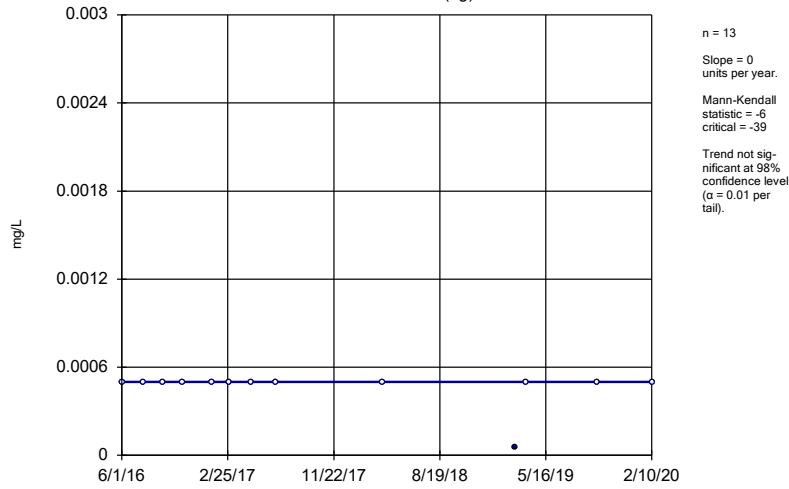
Sen's Slope Estimator
YGWA-1D (bg)



n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -15
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

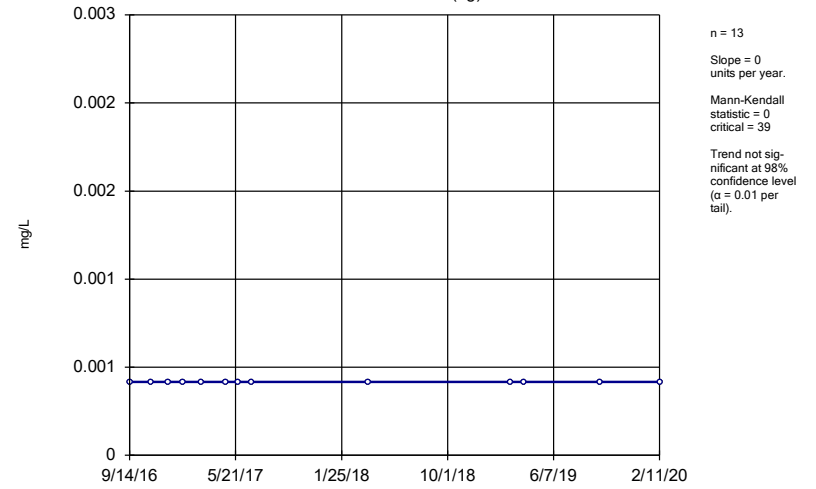
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



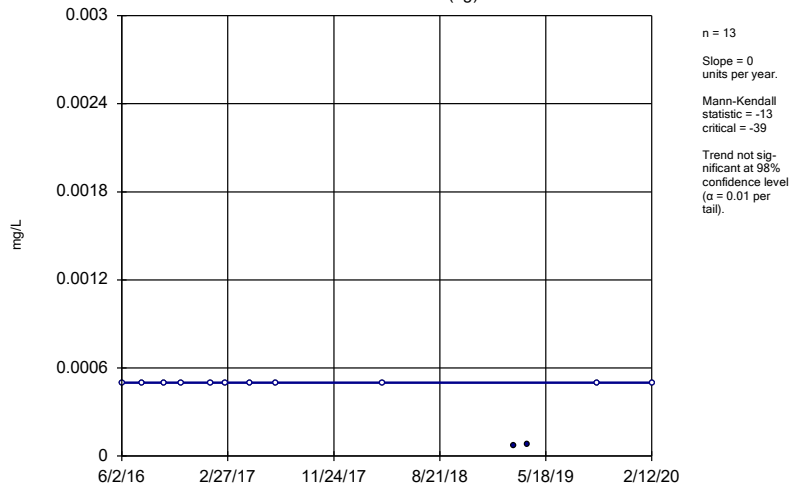
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-21 (bg)



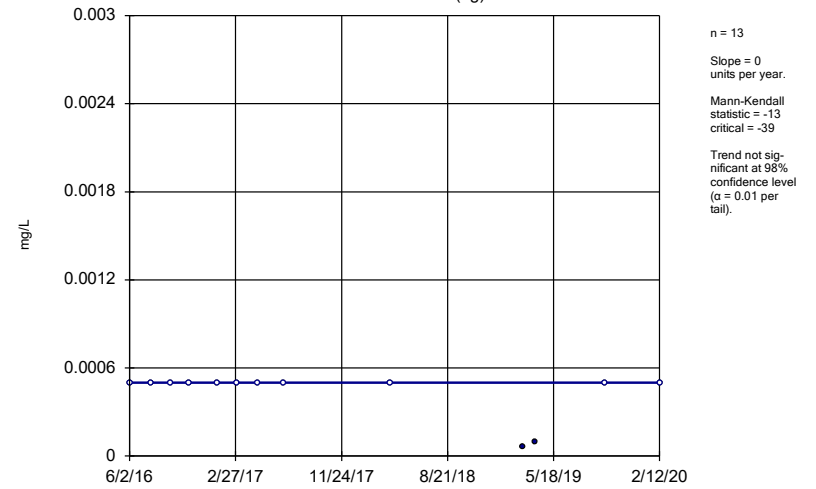
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



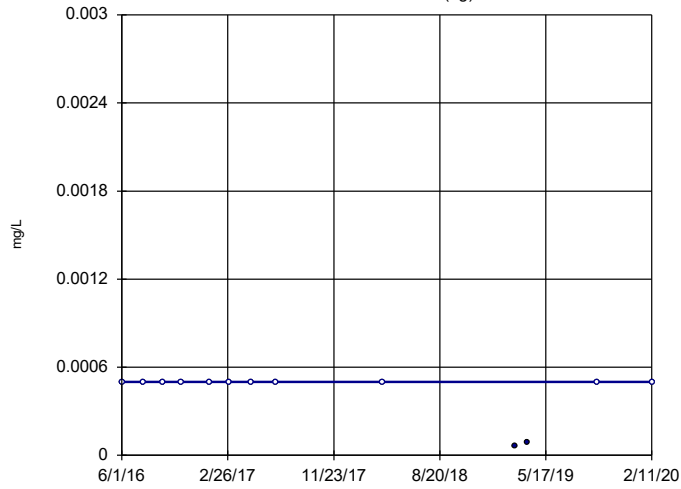
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



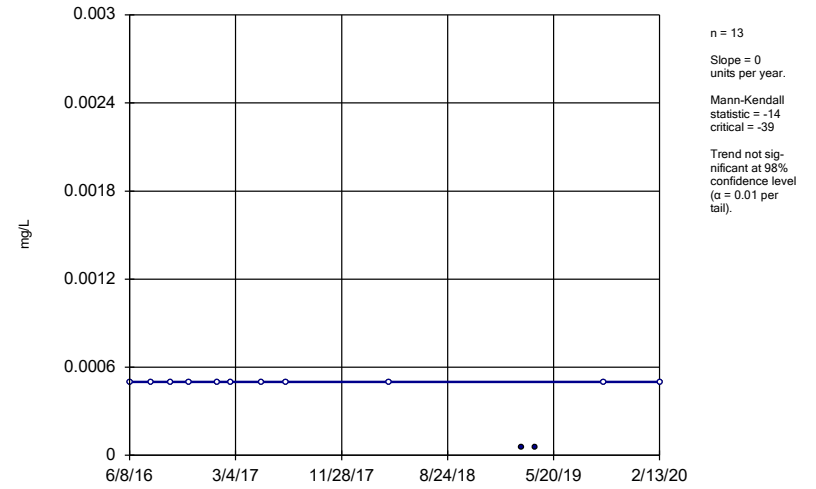
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



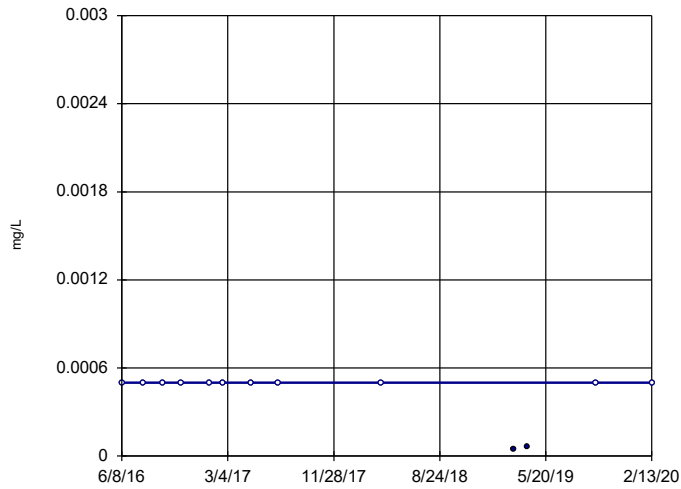
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



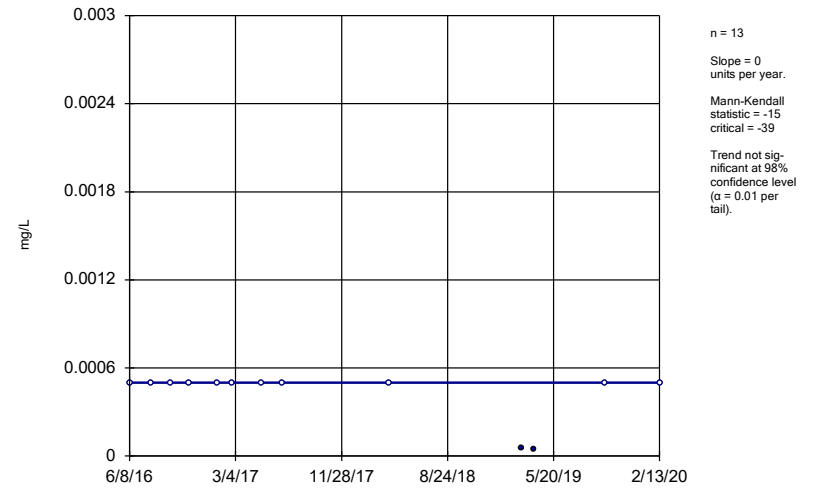
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



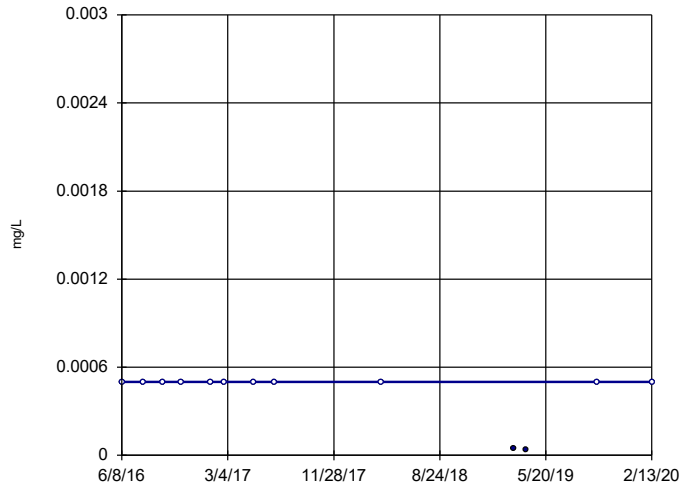
Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

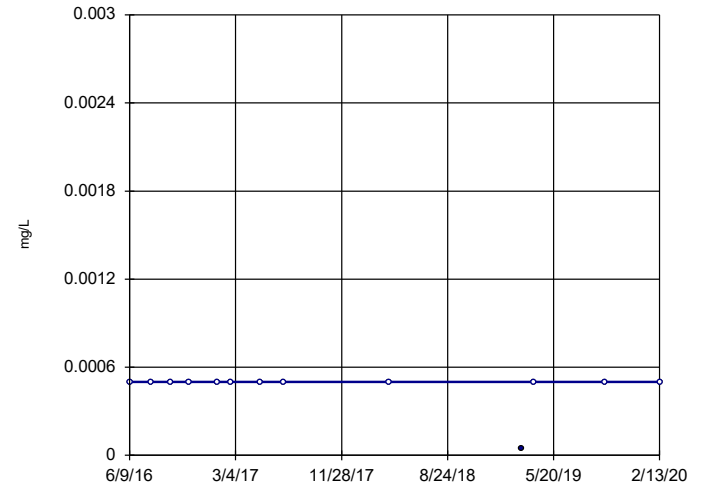
Sen's Slope Estimator YGWC-27S



n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -15
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Mercury Analysis Run 5/12/2020 3:47 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

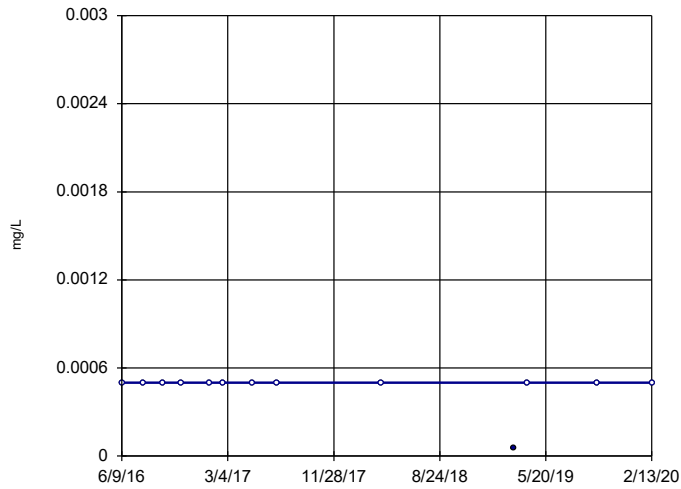
Sen's Slope Estimator YGWC-28I



n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -6
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Mercury Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

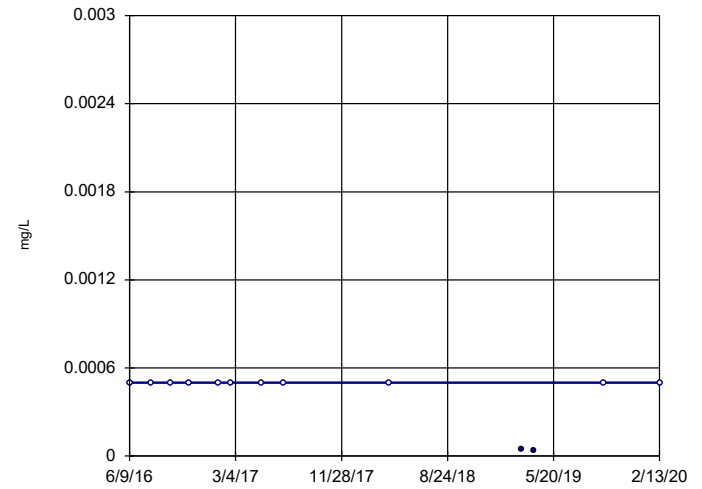
Sen's Slope Estimator YGWC-28S



n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -6
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Mercury Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

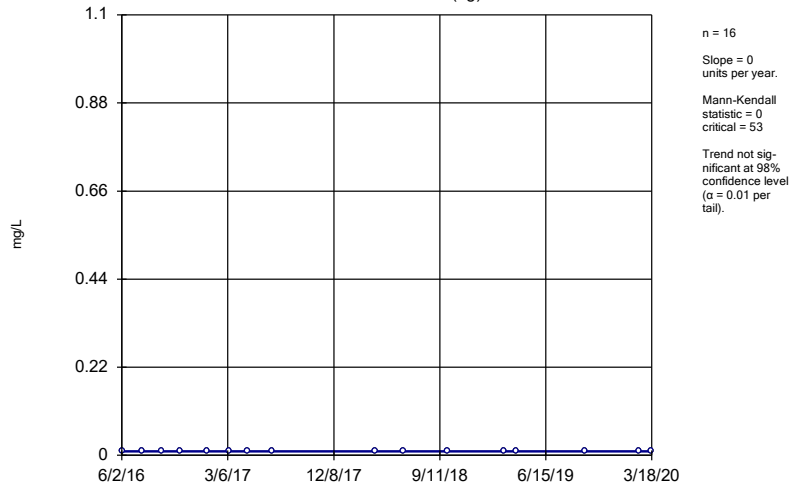
Sen's Slope Estimator YGWC-29I



n = 13
Slope = 0
units per year.
Mann-Kendall
statistic = -15
critical = -39
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

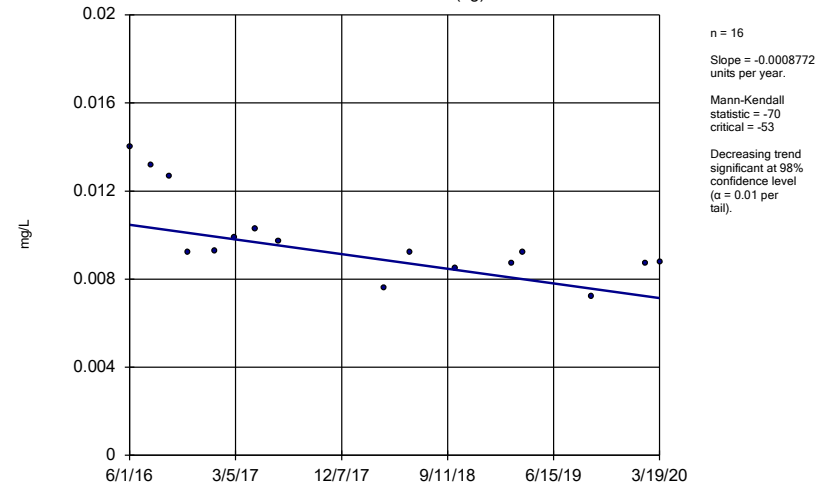
Constituent: Mercury Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWA-14S (bg)



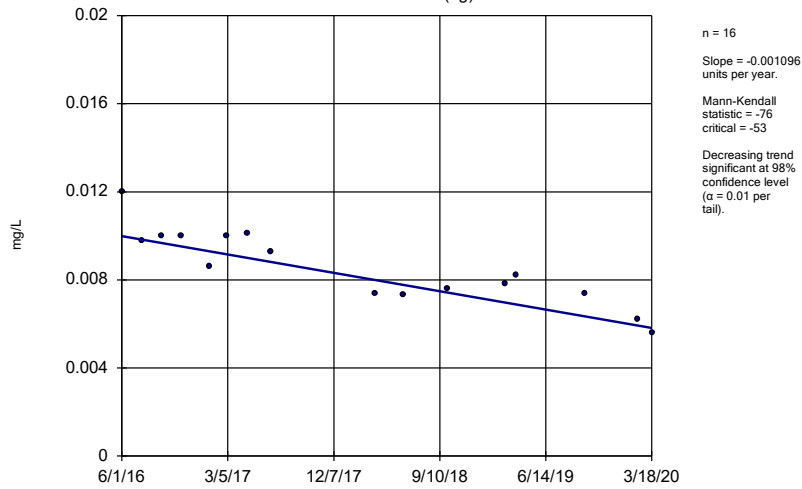
Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWA-1D (bg)



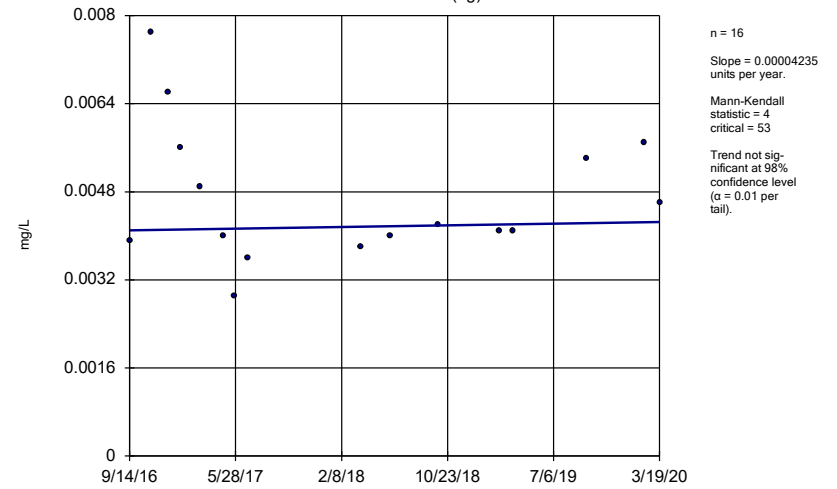
Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWA-11 (bg)



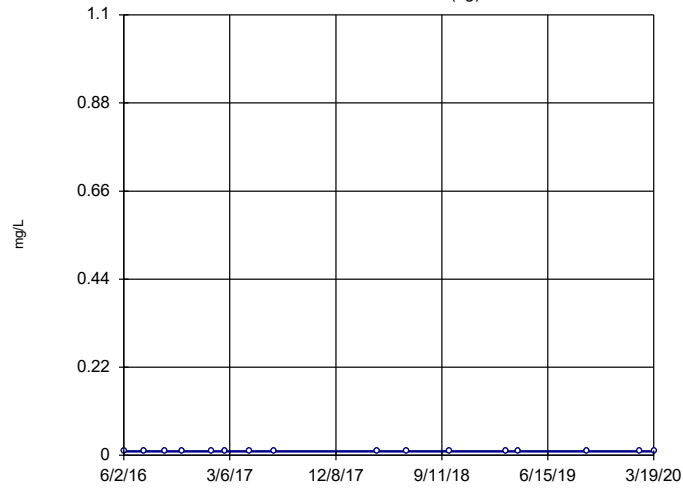
Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWA-2I (bg)



Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

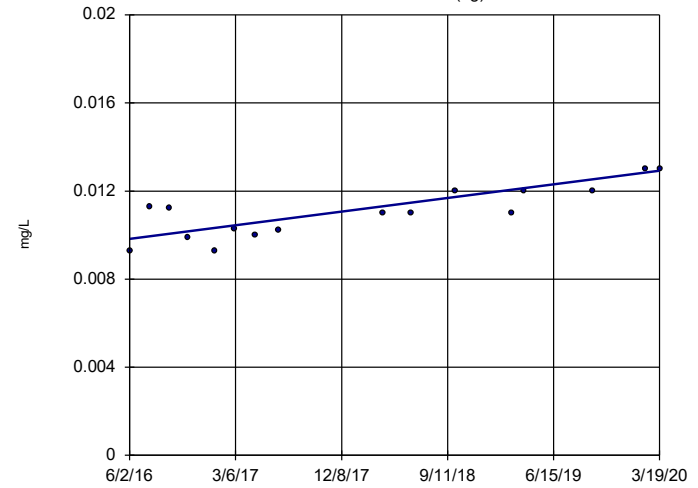
Sen's Slope Estimator
 YGWA-30I (bg)



n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

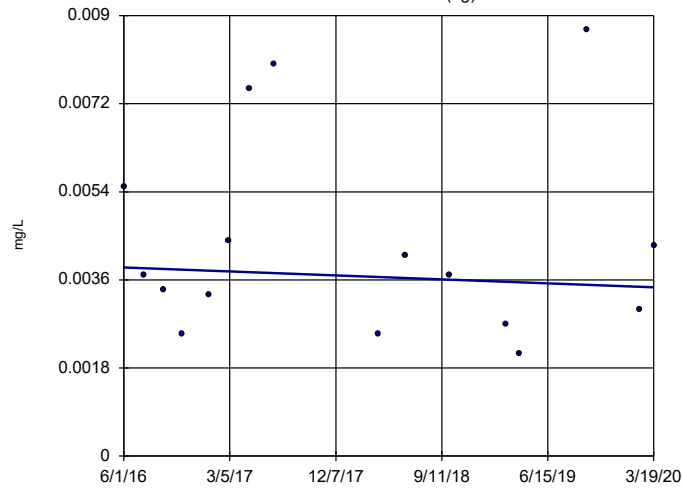
Sen's Slope Estimator
 YGWA-3D (bg)



n = 16
 Slope = 0.0008155
 units per year.
 Mann-Kendall
 statistic = 70
 critical = 53
 Increasing trend
 significant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

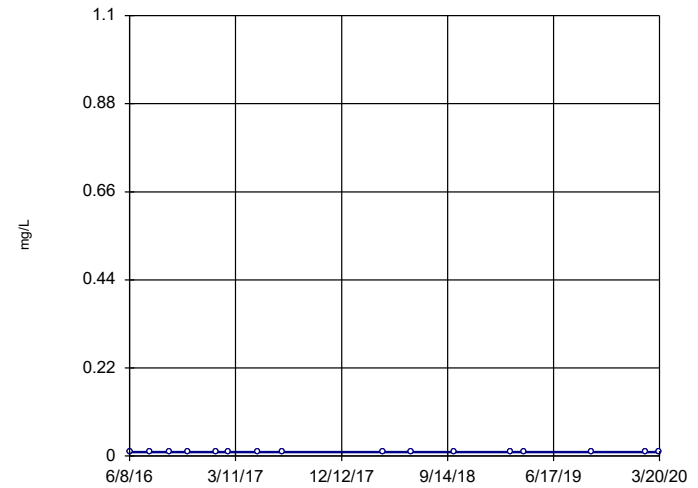
Sen's Slope Estimator
 YGWA-3I (bg)



n = 16
 Slope = -0.0001073
 units per year.
 Mann-Kendall
 statistic = -6
 critical = -53
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
 YGWC-26I

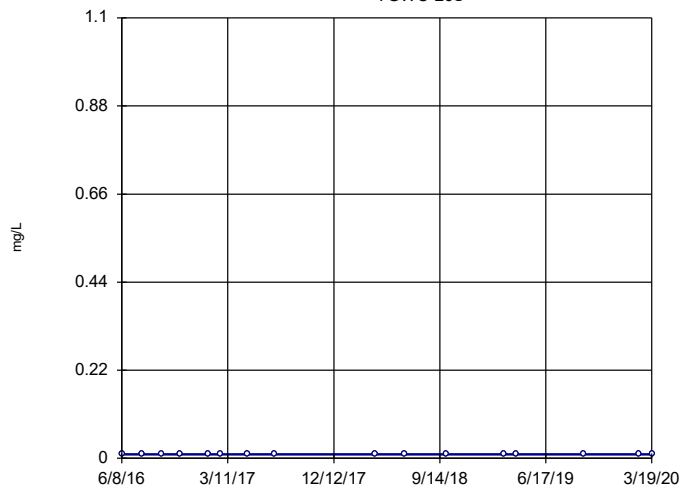


n = 16
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 0
 critical = 53
 Trend not sig-
 nificant at 98%
 confidence level
 ($\alpha = 0.01$ per
 tail).

Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S

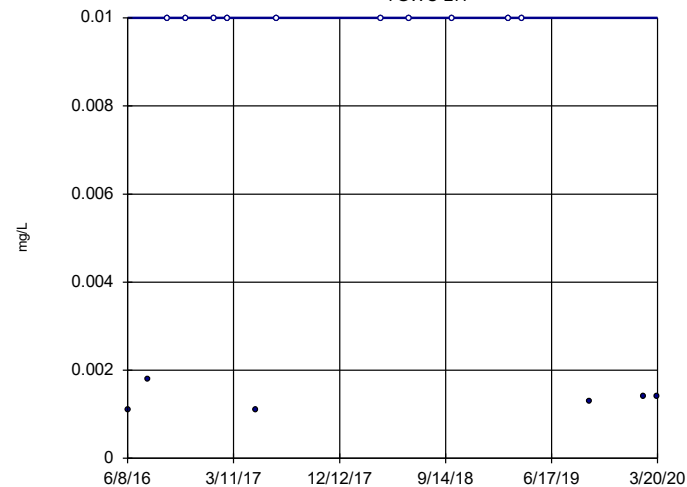


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-27I

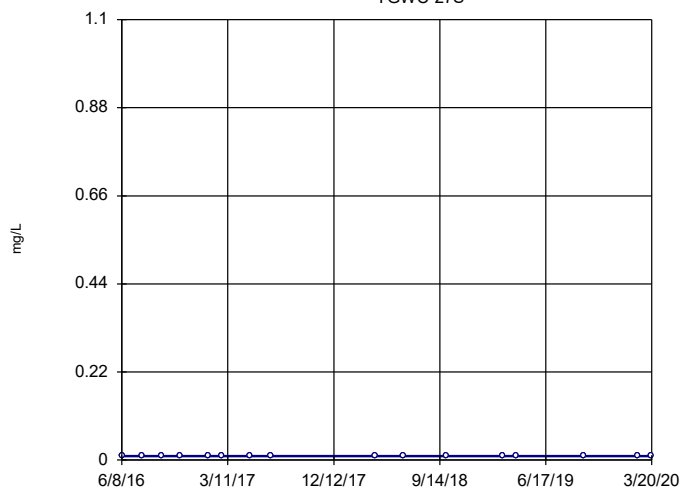


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = -3
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-27S

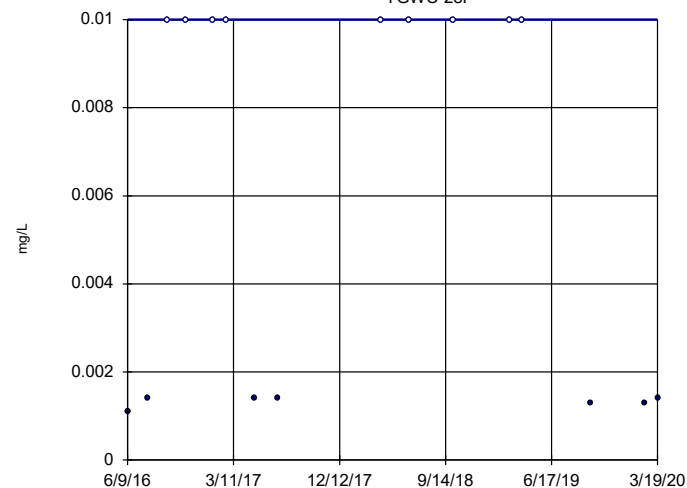


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = 0
critical = 53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-28I

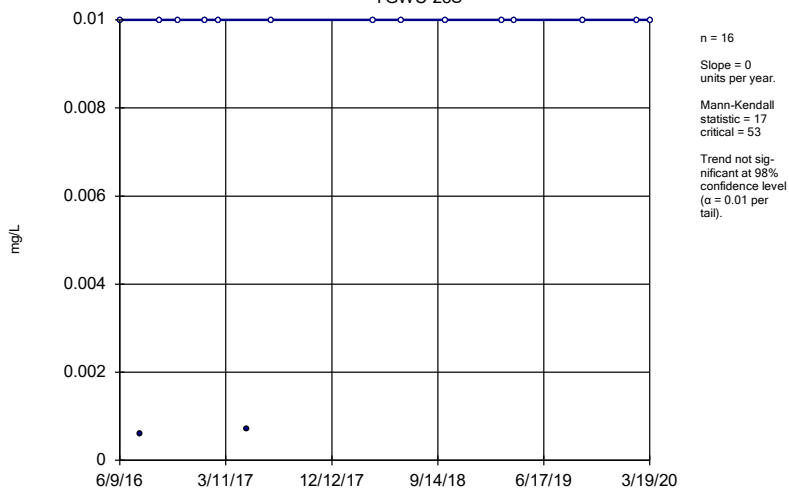


n = 16
Slope = 0
units per year.
Mann-Kendall
statistic = -5
critical = -53
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

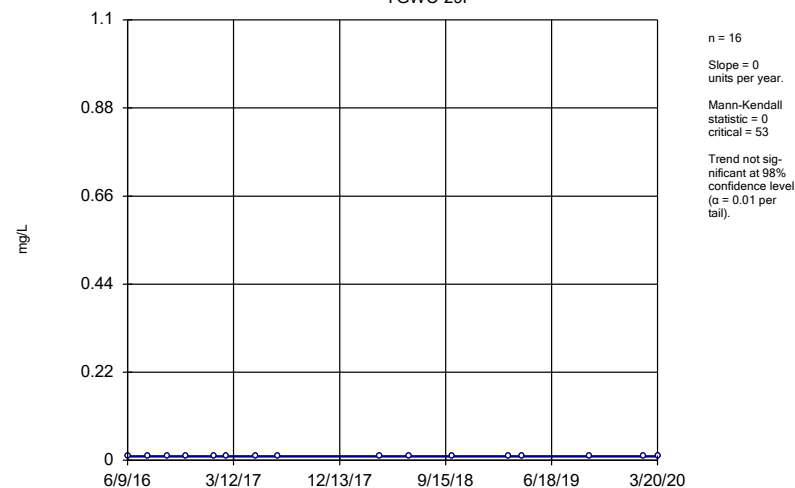
YGWC-28S



Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

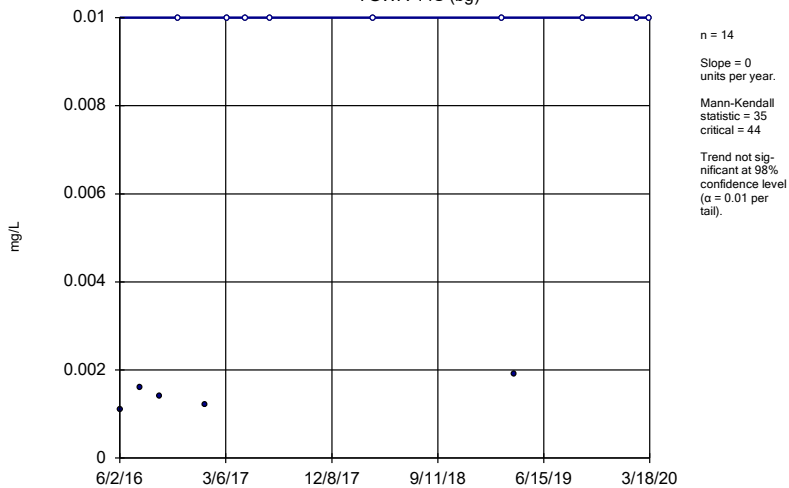
YGWC-29I



Constituent: Molybdenum Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

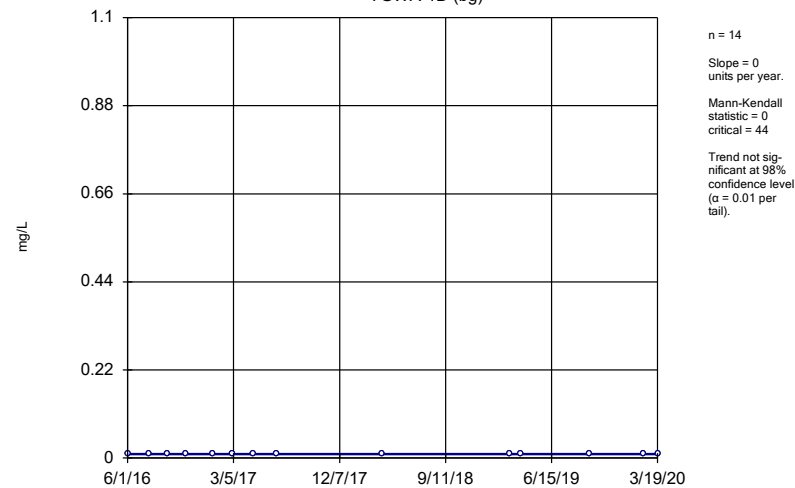
YGWA-14S (bg)



Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

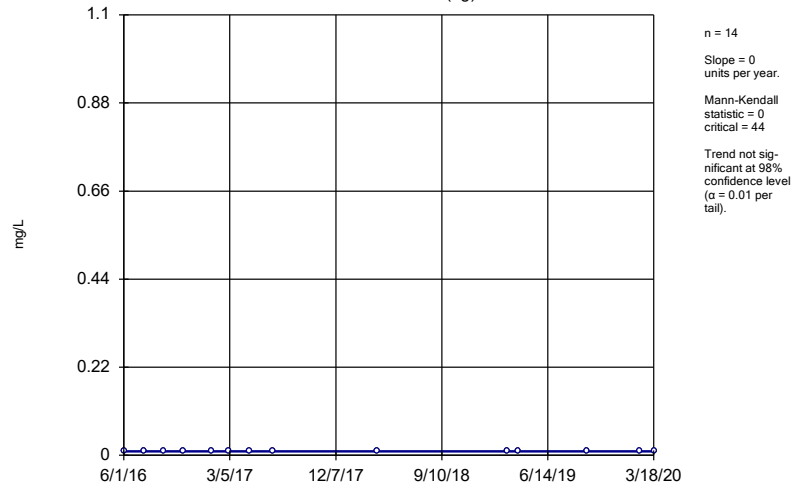
Sen's Slope Estimator

YGWA-1D (bg)



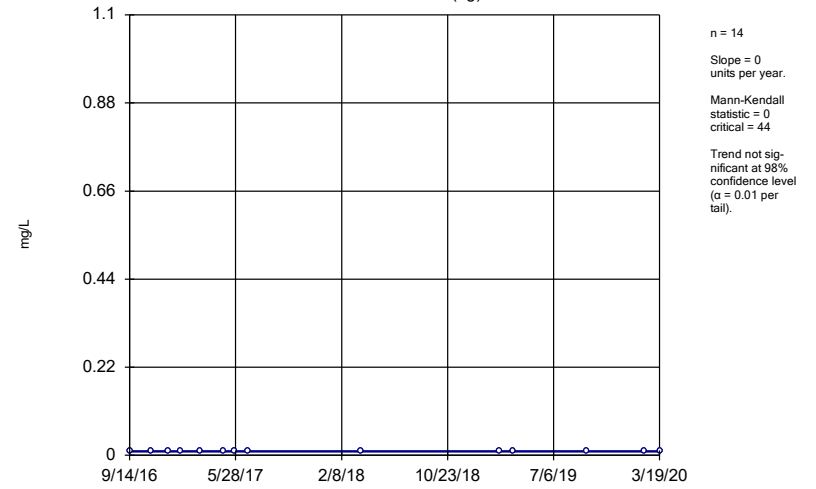
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



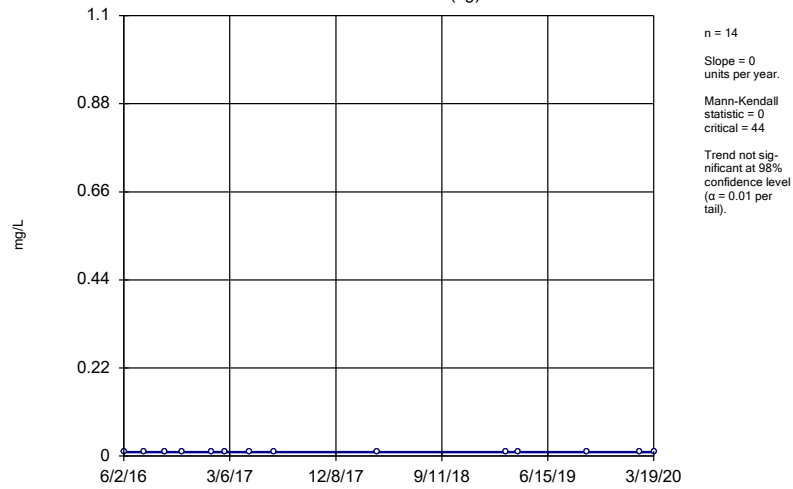
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-21 (bg)



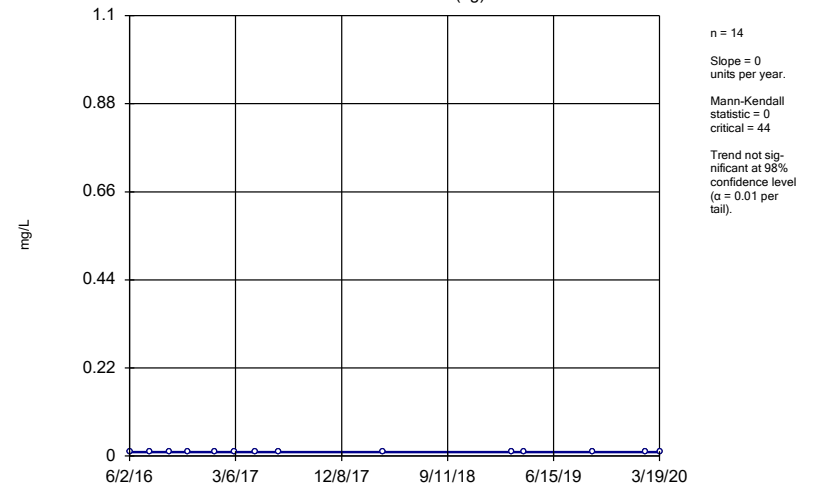
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



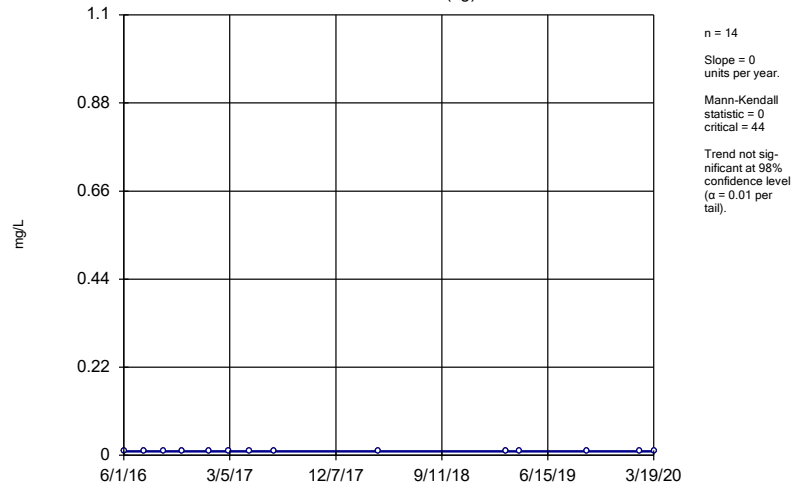
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



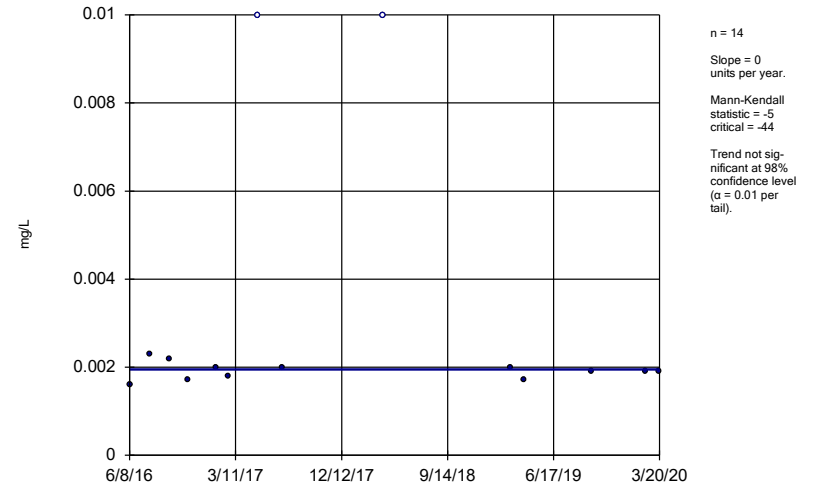
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



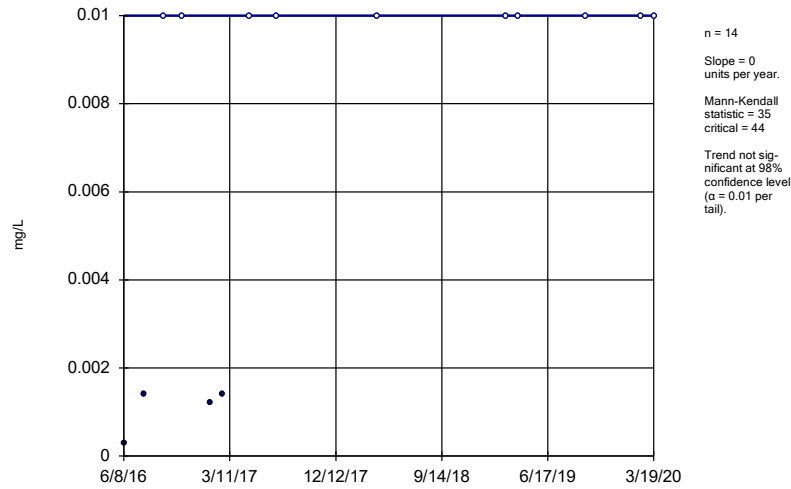
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



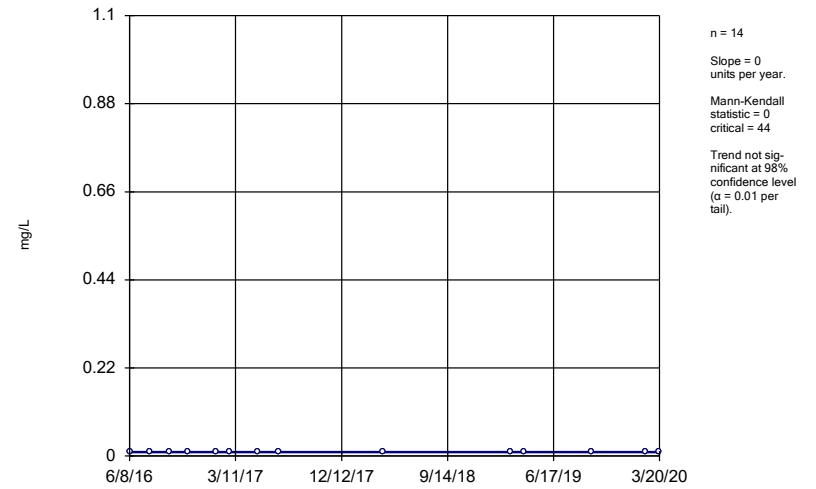
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



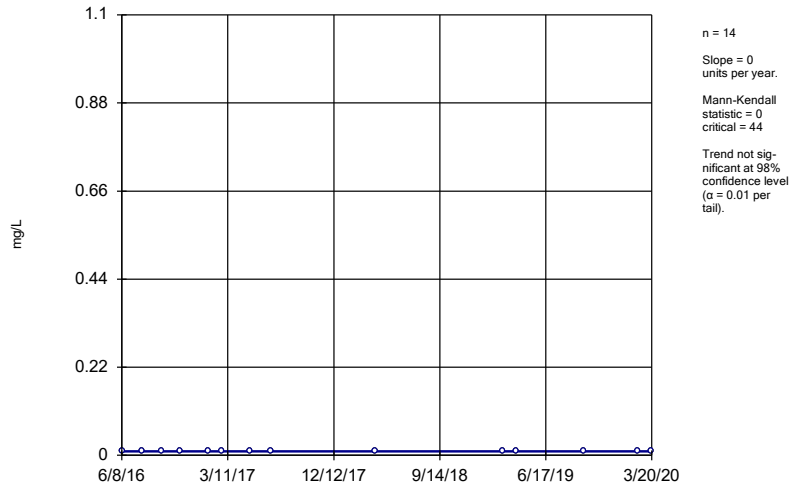
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



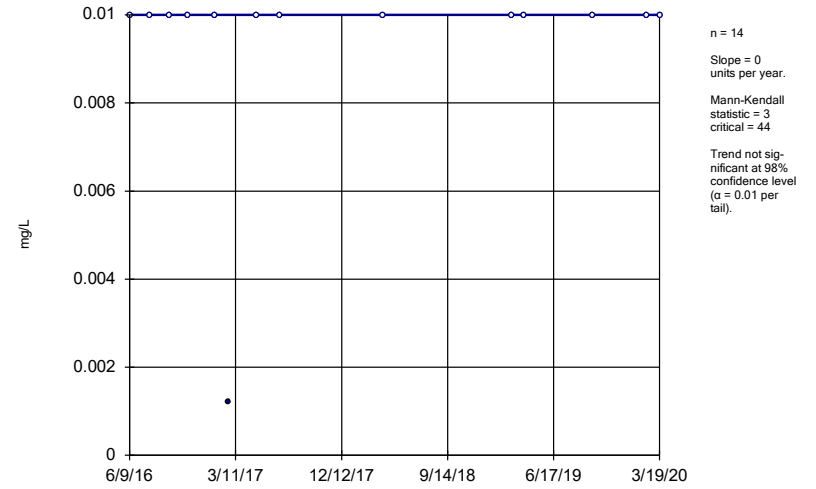
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



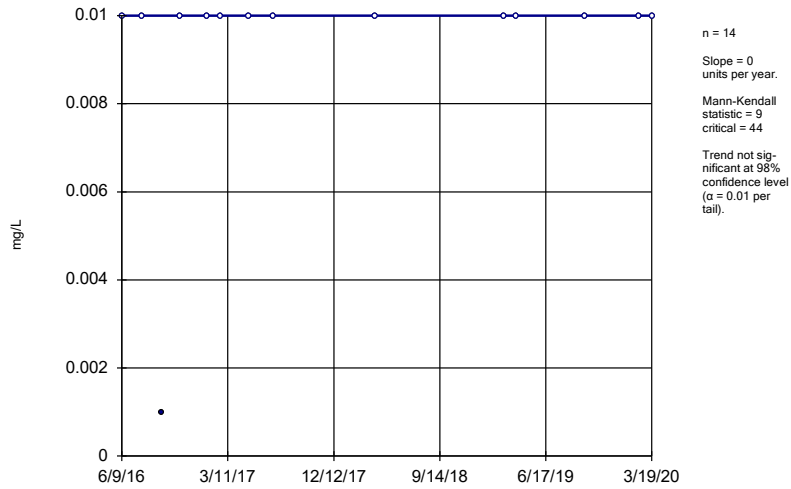
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



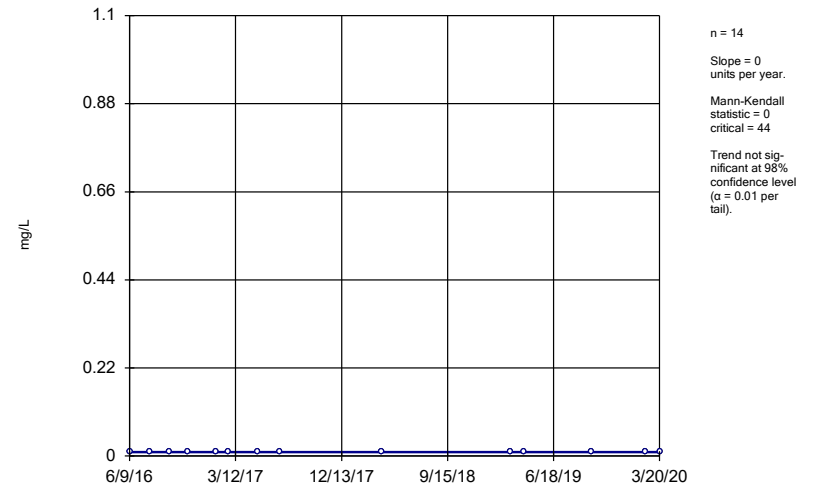
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



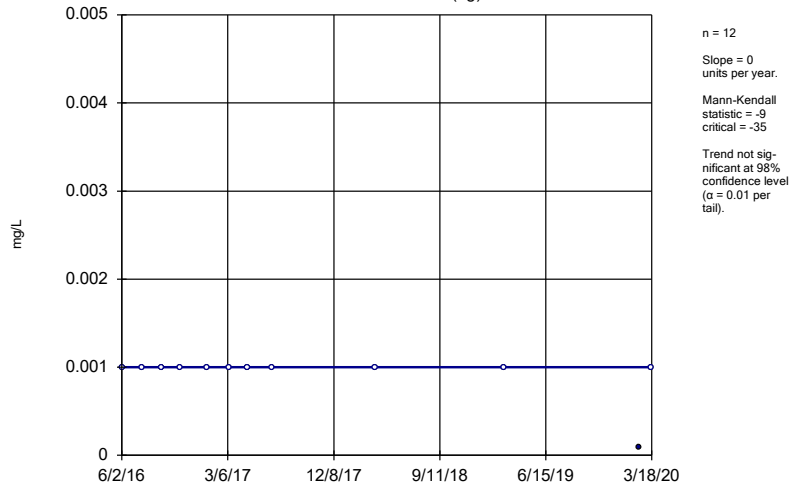
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



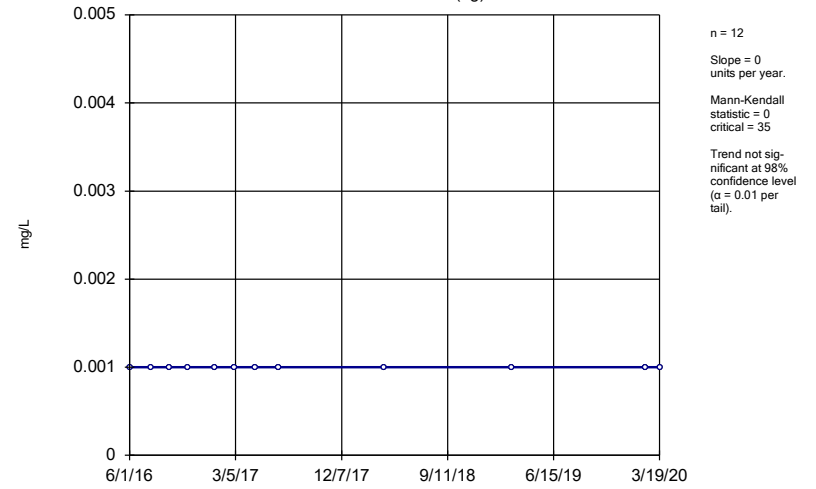
Constituent: Selenium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



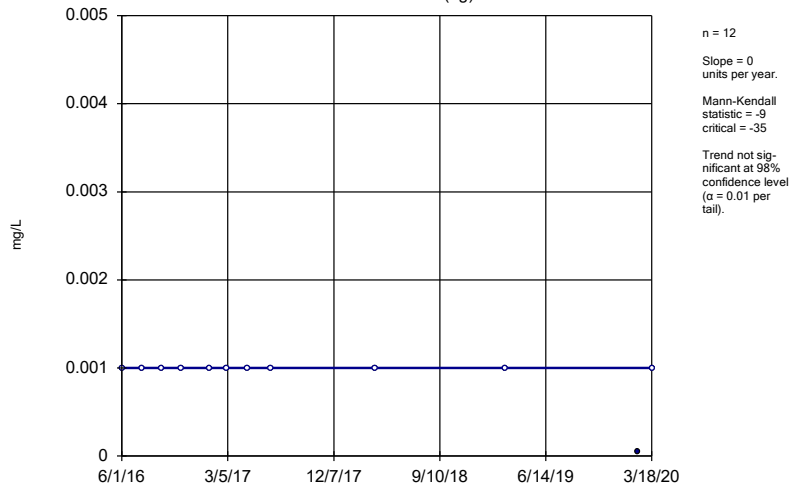
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



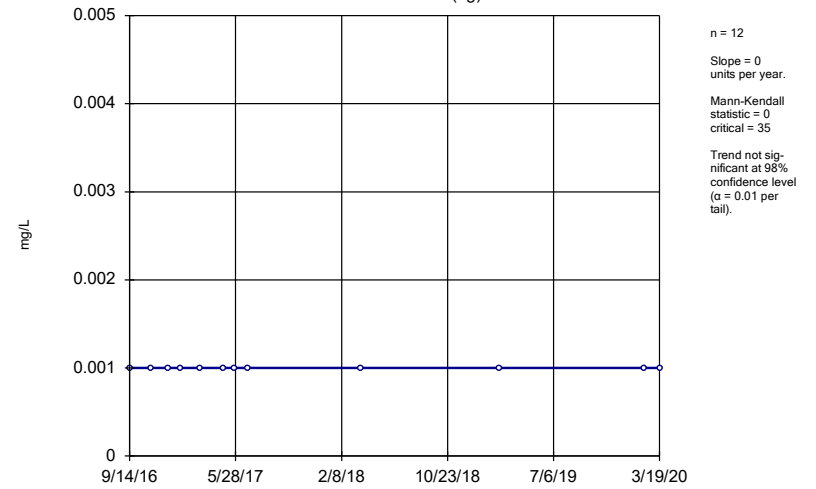
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



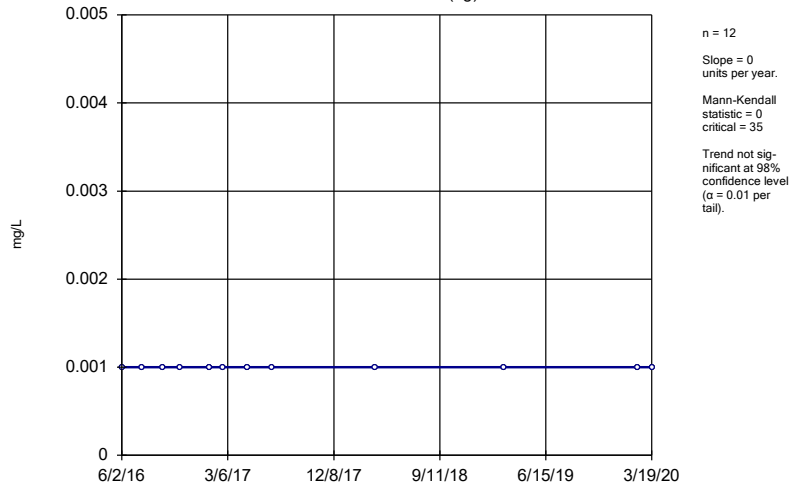
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-2I (bg)



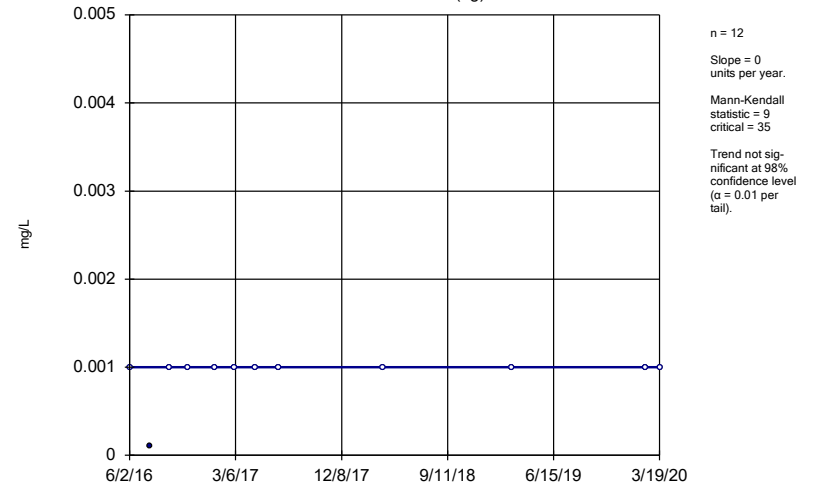
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-30I (bg)



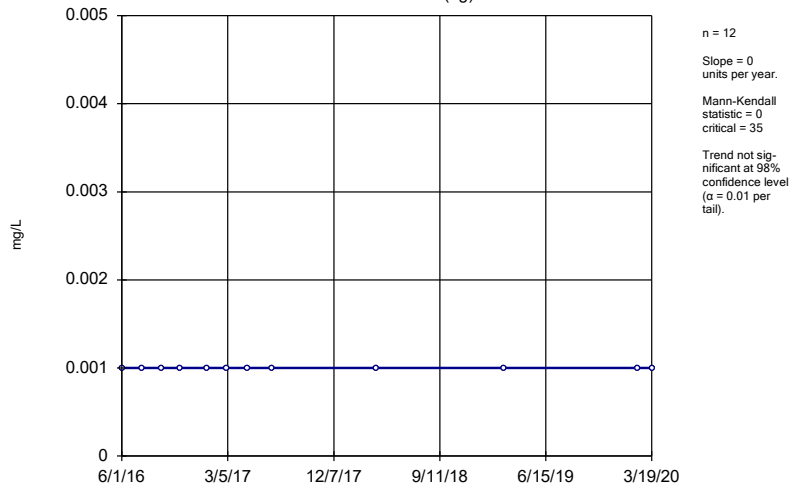
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3D (bg)



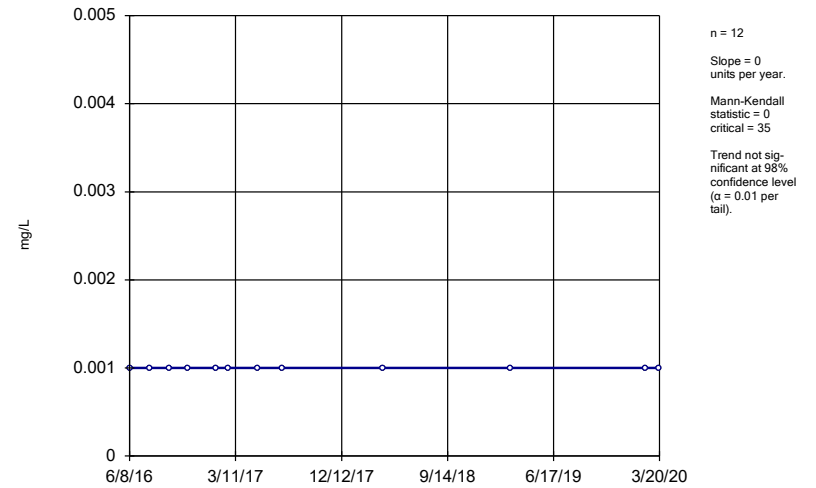
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



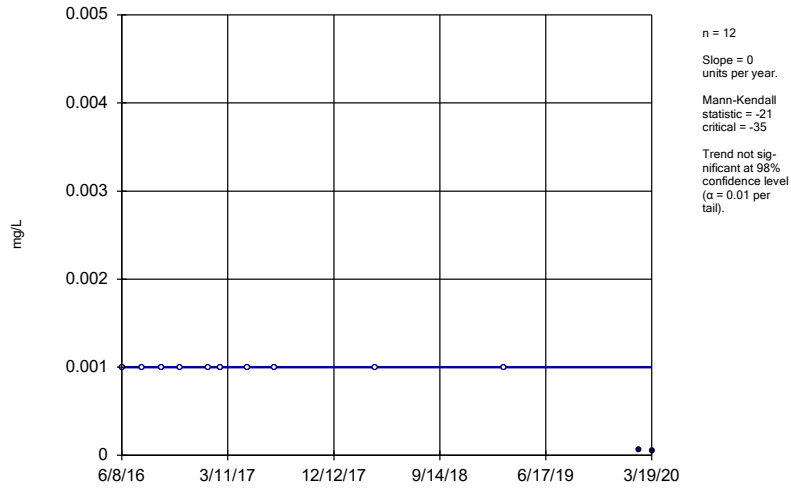
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



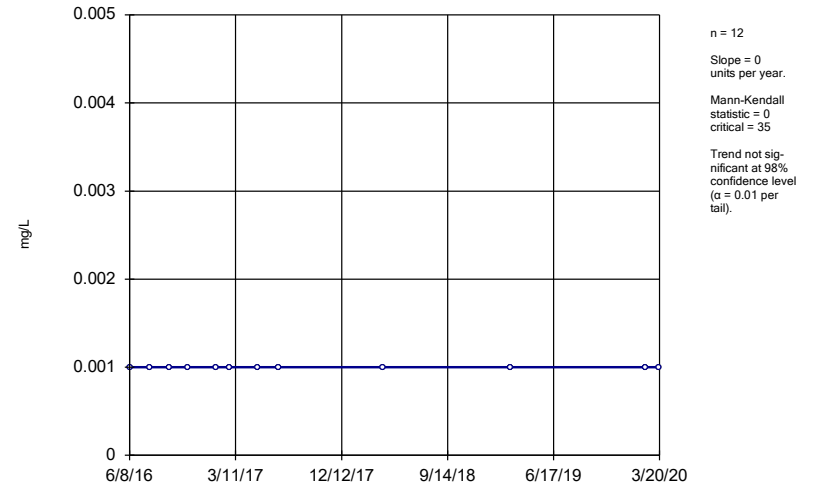
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



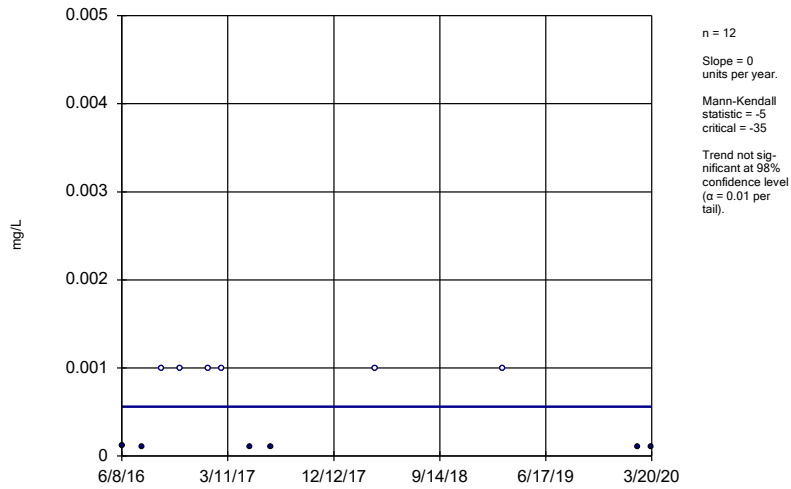
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



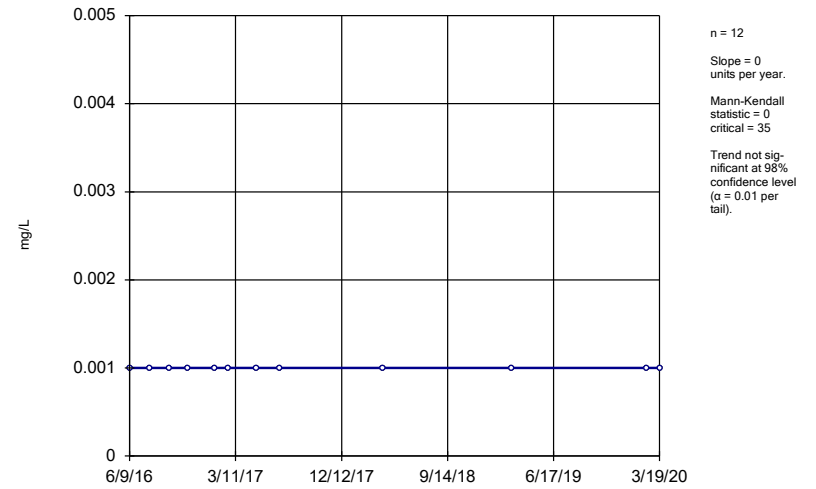
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



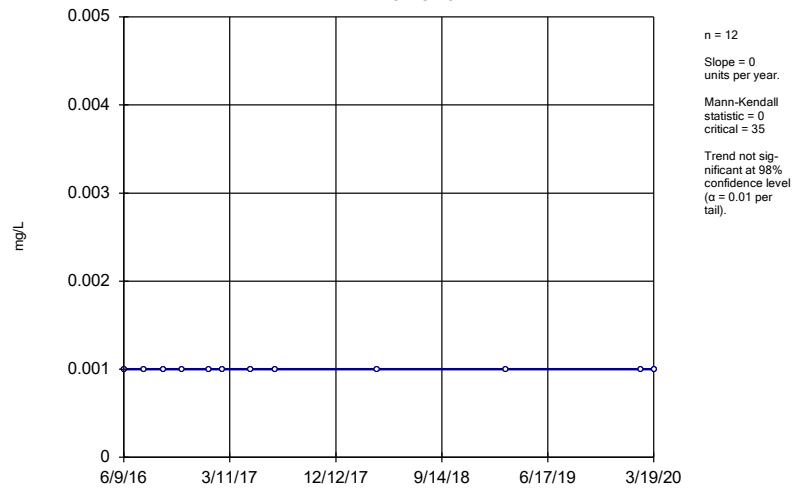
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



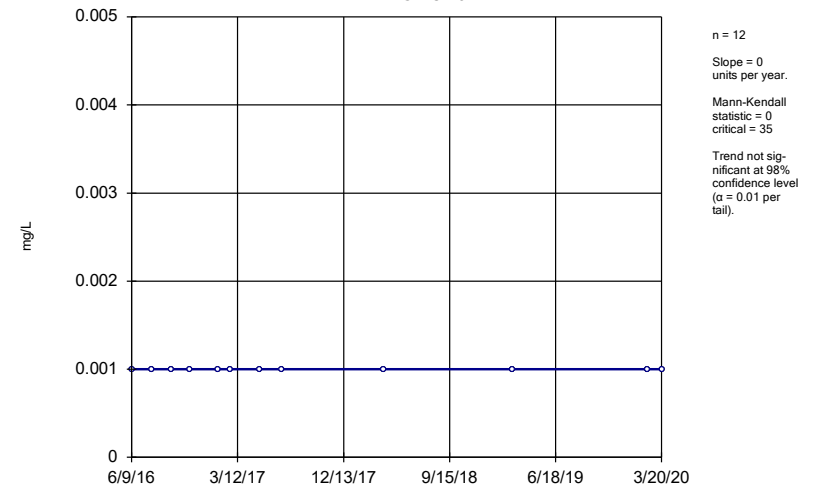
Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28S



Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



Constituent: Thallium Analysis Run 5/12/2020 3:48 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE E.

Appendix III Interwell Prediction Limits Summary Table - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:55 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	NBq	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	YGWC-26I	0.04	n/a	3/20/2020	0.94	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-26S	0.04	n/a	3/19/2020	0.73	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27I	0.04	n/a	3/20/2020	2.1	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27S	0.04	n/a	3/20/2020	1.4	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28I	0.04	n/a	3/19/2020	2.4	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28S	0.04	n/a	3/19/2020	2.5	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-29I	0.04	n/a	3/20/2020	0.8	Yes	98	n/a	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-27S	31.5	n/a	3/20/2020	42.1	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	31.5	n/a	3/19/2020	37.3	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	5.2	n/a	3/20/2020	17.7	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	5.2	n/a	3/19/2020	15.4	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	5.2	n/a	3/20/2020	13	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	5.2	n/a	3/20/2020	17.7	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	5.2	n/a	3/19/2020	16	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	5.2	n/a	3/19/2020	18.1	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	5.2	n/a	3/20/2020	11.3	Yes	98	n/a	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	12.46	n/a	3/20/2020	84.7	Yes	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-26S	12.46	n/a	3/19/2020	99.4	Yes	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-27S	12.46	n/a	3/20/2020	21.1	Yes	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-29I	12.46	n/a	3/20/2020	33	Yes	98	6.415	3.211	2.041	2.041	None	0.001075	Param Inter 1 of 2

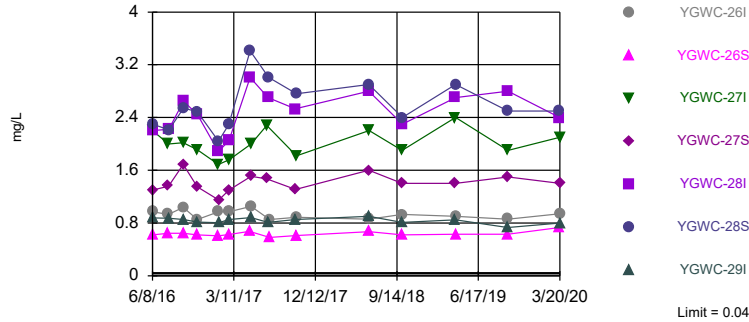
Appendix III Interwell Prediction Limits Summary Table - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:55 PM

Constituent	Well	Upper Lim.	Lower Lim	Date	Observ.	Sig.	Bg	NB	Mean	Std. Dev.	%NDs	ND Adj.	Alpha	Method
Boron (mg/L)	YGWC-26I	0.04	n/a	3/20/2020	0.94	Yes	98	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2	
Boron (mg/L)	YGWC-26S	0.04	n/a	3/19/2020	0.73	Yes	98	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2	
Boron (mg/L)	YGWC-27I	0.04	n/a	3/20/2020	2.1	Yes	98	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2	
Boron (mg/L)	YGWC-27S	0.04	n/a	3/20/2020	1.4	Yes	98	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2	
Boron (mg/L)	YGWC-28I	0.04	n/a	3/19/2020	2.4	Yes	98	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2	
Boron (mg/L)	YGWC-28S	0.04	n/a	3/19/2020	2.5	Yes	98	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2	
Boron (mg/L)	YGWC-29I	0.04	n/a	3/20/2020	0.8	Yes	98	n/a	n/a	57.14	n/a	0.0002018	NP Inter (NDs) 1 of 2	
Calcium (mg/L)	YGWC-26I	31.5	n/a	3/20/2020	17.1	No	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Calcium (mg/L)	YGWC-26S	31.5	n/a	3/19/2020	13	No	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Calcium (mg/L)	YGWC-27I	31.5	n/a	3/20/2020	30.3	No	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Calcium (mg/L)	YGWC-27S	31.5	n/a	3/20/2020	42.1	Yes	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Calcium (mg/L)	YGWC-28I	31.5	n/a	3/19/2020	37.3	Yes	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Calcium (mg/L)	YGWC-28S	31.5	n/a	3/19/2020	30.4	No	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Calcium (mg/L)	YGWC-29I	31.5	n/a	3/20/2020	12.7	No	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Chloride (mg/L)	YGWC-26I	5.2	n/a	3/20/2020	17.7	Yes	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Chloride (mg/L)	YGWC-26S	5.2	n/a	3/19/2020	15.4	Yes	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Chloride (mg/L)	YGWC-27I	5.2	n/a	3/20/2020	13	Yes	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Chloride (mg/L)	YGWC-27S	5.2	n/a	3/20/2020	17.7	Yes	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Chloride (mg/L)	YGWC-28I	5.2	n/a	3/19/2020	16	Yes	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Chloride (mg/L)	YGWC-28S	5.2	n/a	3/19/2020	18.1	Yes	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Chloride (mg/L)	YGWC-29I	5.2	n/a	3/20/2020	11.3	Yes	98	n/a	n/a	0	n/a	0.0002018	NP Inter (normality) 1 of 2	
Fluoride (mg/L)	YGWC-26I	0.68	n/a	3/20/2020	0.06	No	119	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	YGWC-26S	0.68	n/a	3/19/2020	0.3ND	No	119	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	YGWC-27I	0.68	n/a	3/20/2020	0.3ND	No	119	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	YGWC-27S	0.68	n/a	3/20/2020	0.097	No	119	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	YGWC-28I	0.68	n/a	3/19/2020	0.07	No	119	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	YGWC-28S	0.68	n/a	3/19/2020	0.16	No	119	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2	
Fluoride (mg/L)	YGWC-29I	0.68	n/a	3/20/2020	0.057	No	119	n/a	n/a	52.94	n/a	0.0001378	NP Inter (NDs) 1 of 2	
pH (S.U.)	YGWC-26I	7.91	5.02	3/20/2020	5.94	No	119	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2	
pH (S.U.)	YGWC-26S	7.91	5.02	3/19/2020	5.46	No	119	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2	
pH (S.U.)	YGWC-27I	7.91	5.02	3/20/2020	6.32	No	119	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2	
pH (S.U.)	YGWC-27S	7.91	5.02	3/20/2020	6.18	No	119	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2	
pH (S.U.)	YGWC-28I	7.91	5.02	3/19/2020	7.01	No	119	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2	
pH (S.U.)	YGWC-28S	7.91	5.02	3/19/2020	6.98	No	119	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2	
pH (S.U.)	YGWC-29I	7.91	5.02	3/20/2020	6.17	No	119	n/a	n/a	0	n/a	0.0002756	NP Inter (normality) 1 of 2	
Sulfate (mg/L)	YGWC-26I	12.46	n/a	3/20/2020	84.7	Yes	98	6.415	3.211	2.041	None	0.001075	Param Inter 1 of 2	
Sulfate (mg/L)	YGWC-26S	12.46	n/a	3/19/2020	99.4	Yes	98	6.415	3.211	2.041	None	0.001075	Param Inter 1 of 2	
Sulfate (mg/L)	YGWC-27I	12.46	n/a	3/20/2020	5.2	No	98	6.415	3.211	2.041	None	0.001075	Param Inter 1 of 2	
Sulfate (mg/L)	YGWC-27S	12.46	n/a	3/20/2020	21.1	Yes	98	6.415	3.211	2.041	None	0.001075	Param Inter 1 of 2	
Sulfate (mg/L)	YGWC-28I	12.46	n/a	3/19/2020	9.1	No	98	6.415	3.211	2.041	None	0.001075	Param Inter 1 of 2	
Sulfate (mg/L)	YGWC-28S	12.46	n/a	3/19/2020	1.7	No	98	6.415	3.211	2.041	None	0.001075	Param Inter 1 of 2	
Sulfate (mg/L)	YGWC-29I	12.46	n/a	3/20/2020	33	Yes	98	6.415	3.211	2.041	None	0.001075	Param Inter 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-26I	223	n/a	3/20/2020	211	No	98	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-26S	223	n/a	3/19/2020	194	No	98	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-27I	223	n/a	3/20/2020	195	No	98	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-27S	223	n/a	3/20/2020	182	No	98	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-28I	223	n/a	3/19/2020	212	No	98	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-28S	223	n/a	3/19/2020	202	No	98	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2	
Total Dissolved Solids (mg/L)	YGWC-29I	223	n/a	3/20/2020	137	No	98	n/a	n/a	2.041	n/a	0.0002018	NP Inter (normality) 1 of 2	

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Prediction Limit
Interwell Non-parametric

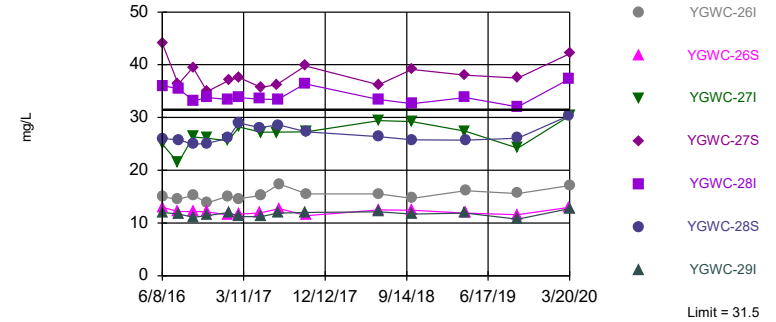


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 98 background values. 57.14% NDs. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.0002018 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-27S, YGWC-28I

Prediction Limit
Interwell Non-parametric

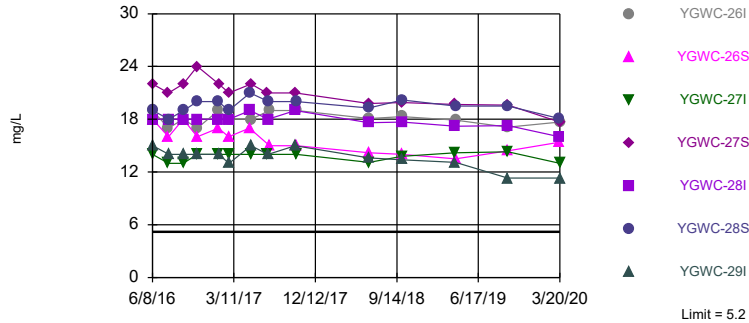


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.0002018 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Prediction Limit
Interwell Non-parametric



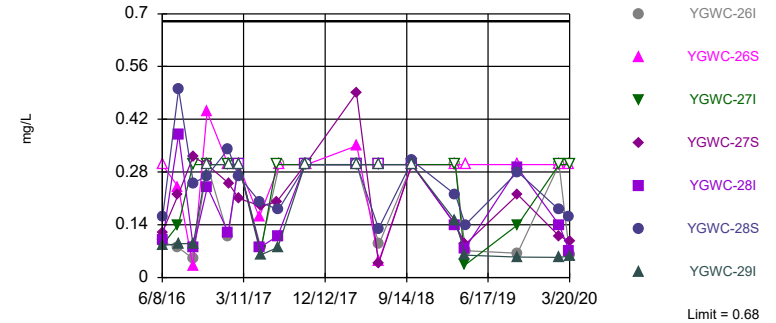
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.0002018 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 5/12/2020 3:54 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 119 background values. 52.94% NDs. Annual per-constituent alpha = 0.001928. Individual comparison alpha = 0.0001378 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/1/2016	<0.04	<0.04	<0.04						
6/2/2016				<0.04	<0.04	<0.04			
6/8/2016							1.3	2.2	0.62
6/9/2016									
7/25/2016	<0.04	<0.04		<0.04					
7/26/2016			0.0055 (J)		0.0097 (J)	0.0177 (J)			
8/1/2016							1.36	2	0.643
8/2/2016									
9/13/2016	<0.04		<0.04						
9/14/2016		<0.04							
9/15/2016					0.0102 (J)	0.0214 (J)			
9/19/2016				<0.04					
9/20/2016							1.69	2.02	0.644
9/21/2016									
11/1/2016		<0.04	0.0086 (J)	<0.04	<0.04				
11/2/2016						<0.04 (*)			
11/4/2016	<0.04								
11/7/2016							1.35	1.91	0.621
11/8/2016									
12/15/2016									
1/10/2017						0.0198 (J)			
1/11/2017		<0.04	0.0074 (J)		<0.04				
1/16/2017	<0.04			<0.04					
1/18/2017								1.69	0.607
1/19/2017							1.15		
2/21/2017				<0.04					0.624
2/22/2017							1.3		
2/23/2017								1.76	
3/1/2017		<0.04 (*)							
3/2/2017	<0.04		0.008 (J)		0.0084 (J)				
3/3/2017									
3/8/2017						0.0189 (J)			
4/26/2017		<0.04		<0.04	<0.04	0.0161 (J)			
4/27/2017	<0.04		0.0066 (J)						
4/28/2017									
5/3/2017									0.676
5/5/2017									
5/8/2017							1.51	2	
5/26/2017									
6/27/2017	0.006 (J)		0.0087 (J)						
6/28/2017		<0.04			<0.04				
6/30/2017				<0.04		0.0173 (J)	1.47	2.28	
7/5/2017									
7/7/2017									
7/10/2017									0.58
10/3/2017	0.0071 (J)		0.0072 (J)						
10/4/2017		<0.04		<0.04	<0.04				
10/5/2017						0.0173 (J)			
10/6/2017							1.31		
10/9/2017								1.82	
10/10/2017									0.612
6/5/2018			0.0052 (J)						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/6/2018	<0.04								
6/7/2018					0.004 (J)				
6/8/2018		<0.04				0.013 (J)			
6/11/2018				0.014 (J)					
6/12/2018							1.6		
6/13/2018								2.2	0.67
10/1/2018	0.0049 (J)	<0.04	0.021 (J)		<0.04	0.015 (J)			
10/2/2018					<0.04		1.4	1.9	0.62
10/3/2018									
3/28/2019	<0.04		0.005 (J)						
3/29/2019						0.014 (J)			
4/1/2019		<0.04			<0.04		1.4	2.4	
4/2/2019									0.63
9/24/2019	0.0055 (J)		0.0064 (J)						
9/25/2019		<0.04			<0.04	0.0054 (J)	0.018 (J)		0.63
9/26/2019							1.5	1.9	
3/18/2020	0.0087 (J)					0.02 (J)			
3/19/2020		0.0053 (J)	0.0085 (J)	0.0052 (J)	0.0073 (J)				0.73
3/20/2020							1.4	2.1	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	0.97				
6/9/2016		2.2	0.88	2.3	
7/25/2016					
7/26/2016					
8/1/2016	0.932				
8/2/2016		2.22	0.872	2.21	
9/13/2016					
9/14/2016					<0.04
9/15/2016					
9/19/2016					
9/20/2016	1.04				
9/21/2016		2.65	0.853	2.54	
11/1/2016					
11/2/2016					
11/4/2016					<0.04
11/7/2016	0.852		0.815	2.49	
11/8/2016		2.44			
12/15/2016					0.0107 (J)
1/10/2017					
1/11/2017					
1/16/2017					<0.04
1/18/2017	0.972	1.88		2.04	
1/19/2017			0.803		
2/21/2017	0.972			2.29	
2/22/2017		2.05	0.855		
2/23/2017					
3/1/2017					
3/2/2017					
3/3/2017					<0.04
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017					<0.04
5/3/2017					
5/5/2017		3.01		3.41	
5/8/2017	1.05		0.884		
5/26/2017					<0.04
6/27/2017					
6/28/2017					<0.04
6/30/2017					
7/5/2017		2.7	0.811		
7/7/2017				3.01	
7/10/2017	0.855				
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	0.887				
6/5/2018					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
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	0.86				
10/1/2018					<0.04
10/2/2018	0.93		0.81		
10/3/2018		2.3		2.4	
3/28/2019					
3/29/2019					0.0065 (J)
4/1/2019		2.7	0.85		
4/2/2019	0.9			2.9	
9/24/2019					0.0076 (J)
9/25/2019	0.86		0.73		
9/26/2019		2.8		2.5	
3/18/2020					
3/19/2020		2.4		2.5	0.0073 (J)
3/20/2020	0.94		0.8		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/1/2016	2.5	21	12						
6/2/2016				1.3	28	1.3			
6/8/2016							44	25	13
6/9/2016									
7/25/2016	2.16	20.3		1.17					
7/26/2016			11		24.5	1.24			
8/1/2016							36.3	21.4	12.2
8/2/2016									
9/13/2016	2.21		11.8						
9/14/2016		19.7							
9/15/2016					27	1.17			
9/19/2016				1.05					
9/20/2016							39.5	26.3	12.2
9/21/2016									
11/1/2016		18.4	11	1.14	25.6				
11/2/2016						1.23			
11/4/2016	2.67								
11/7/2016							34.9	26.1	12.1
11/8/2016									
12/15/2016									
1/10/2017						1.24			
1/11/2017		20.3	11.2		27.5				
1/16/2017	2.45			1.23					
1/18/2017								25.6	11.5
1/19/2017							37		
2/21/2017				1.25					11.7
2/22/2017							37.6		
2/23/2017								28.2	
3/1/2017		18.6							
3/2/2017	2.57		11		27.5				
3/3/2017									
3/8/2017						1.21			
4/26/2017		25.6		1.03	30.4	1.14			
4/27/2017	2.38		11.1						
4/28/2017									
5/3/2017									11.9
5/5/2017									
5/8/2017							35.7	27.2	
5/26/2017									
6/27/2017	2.36		13.8						
6/28/2017		23.9			29.8				
6/30/2017				1.13		1.24	36.2	27.2	
7/5/2017									
7/7/2017									
7/10/2017									12.7
10/3/2017	2.21		14						
10/4/2017		22.1		1.09	29.7				
10/5/2017						1.11			
10/6/2017							39.8		
10/9/2017								27.3	
10/10/2017									11.4
6/5/2018			15.2 (J)						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/6/2018	2.3								
6/7/2018					29.1				
6/8/2018		21.9 (J)				1.1			
6/11/2018				1.1					
6/12/2018							36.2		
6/13/2018								29.4	12.5
10/1/2018	1.8	19.7	15.1		26.9	0.99			
10/2/2018				1.1			39.1	29.2	12.4 (J)
10/3/2018									
3/28/2019	2.2		13.3 (J)						
3/29/2019						1.1			
4/1/2019		20.4 (J)		1.3	30.1		38	27.4	
4/2/2019									11.9 (J)
9/24/2019	2.3		15.8						
9/25/2019		22.4		1.1	29.5	1.1			11.6
9/26/2019							37.5	24.2	
3/18/2020	2.1					1.1			
3/19/2020		21.9	15	1.2	31.5				13
3/20/2020							42.1	30.3	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	15				
6/9/2016		36	12	26	
7/25/2016					
7/26/2016					
8/1/2016	14.5				
8/2/2016		35.5	11.7	25.8	
9/13/2016					
9/14/2016					23.5
9/15/2016					
9/19/2016					
9/20/2016	15.3				
9/21/2016		33.2	11.1	24.9	
11/1/2016					
11/2/2016					
11/4/2016					23.7
11/7/2016	13.8		11.4	25.1	
11/8/2016		33.8			
12/15/2016					23.1
1/10/2017					
1/11/2017					
1/16/2017					23.3
1/18/2017	15.1	33.4		26.1	
1/19/2017			12		
2/21/2017	14.6			29	
2/22/2017		33.8	11.2		
2/23/2017					
3/1/2017					
3/2/2017					
3/3/2017					25.1
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017					30.7
5/3/2017					
5/5/2017		33.5		28.1	
5/8/2017	15.2		11.2		
5/26/2017					26.2
6/27/2017					
6/28/2017					26.1
6/30/2017					
7/5/2017		33.4	11.9		
7/7/2017				28.6	
7/10/2017	17.4				
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	15.5				
6/5/2018					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
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	15.5				
10/1/2018					25
10/2/2018	14.7		11.7 (J)		
10/3/2018		32.6		25.8	
3/28/2019					
3/29/2019					23.5 (J)
4/1/2019		33.8	11.9 (J)		
4/2/2019	16.1 (J)			25.7	
9/24/2019					26.4
9/25/2019	15.6		10.7		
9/26/2019		32		26.1	
3/18/2020					
3/19/2020		37.3		30.4	27.4
3/20/2020	17.1		12.7		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/1/2016	1.6	1.3	1.3						
6/2/2016				1.9	1.4	4.1			
6/8/2016							22	14	18
6/9/2016									
7/25/2016	1.4	1.3		1.7					
7/26/2016			1.2		1.6	4			
8/1/2016							21	13	16
8/2/2016									
9/13/2016	1.3		1.1						
9/14/2016		1.3							
9/15/2016					1.5	4.2			
9/19/2016				1.6					
9/20/2016							22	13	18
9/21/2016									
11/1/2016		1.4	1.3	1.8	1.7				
11/2/2016						4.9			
11/4/2016	1.6								
11/7/2016							24	14	16
11/8/2016									
12/15/2016									
1/10/2017						4.1			
1/11/2017		1.1	1.1		1.2				
1/16/2017	1.4			1.7					
1/18/2017								14	17
1/19/2017							22		
2/21/2017				1.7					16
2/22/2017							21		
2/23/2017								14	
3/1/2017		1.1							
3/2/2017	1.3		1		1.2				
3/3/2017									
3/8/2017						4.2			
4/26/2017		1.1		1.7	1.2	4.1			
4/27/2017	1.3		1						
4/28/2017									
5/3/2017									17
5/5/2017									
5/8/2017							22	14	
5/26/2017									
6/27/2017	1.4		1.1						
6/28/2017		1.2			1.3				
6/30/2017				1.8		3.7	21	14	
7/5/2017									
7/7/2017									
7/10/2017									15
10/3/2017	1.7		1.1						
10/4/2017		1.2		1.8	1.5				
10/5/2017						3.8			
10/6/2017							21		
10/9/2017								14	
10/10/2017									15
6/5/2018			1.1						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/6/2018	1.4								
6/7/2018					1.2				
6/8/2018		1.2				3.4			
6/11/2018				2					
6/12/2018							19.8		
6/13/2018								13.1	14.2
10/1/2018	1.4	1.2	1.1		1.5	3.8			
10/2/2018				1.8			19.9	13.8	14
10/3/2018									
3/28/2019	1.5		1.4						
3/29/2019						4.2			
4/1/2019		1.1		1.7	1.2		19.7	14.2	
4/2/2019									13.5
9/24/2019	1.3		1.1						
9/25/2019		1.1		1.6	1.1	4.8			14.4
9/26/2019							19.6	14.3	
3/18/2020	1.4					5.2			
3/19/2020		1.1	1.1	1.8	1.2				15.4
3/20/2020							17.7	13	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	19				
6/9/2016		18	15	19	
7/25/2016					
7/26/2016					
8/1/2016	17				
8/2/2016		18	14	18	
9/13/2016					
9/14/2016					1.1
9/15/2016					
9/19/2016					
9/20/2016	18				
9/21/2016		18	14	19	
11/1/2016					
11/2/2016					
11/4/2016					1.4
11/7/2016	17		14	20	
11/8/2016		18			
12/15/2016					2.9
1/10/2017					
1/11/2017					
1/16/2017					0.98
1/18/2017	19	18		20	
1/19/2017			14		
2/21/2017	18			19	
2/22/2017		18	13		
2/23/2017					
3/1/2017					
3/2/2017					
3/3/2017					1.1
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017					0.91
5/3/2017					
5/5/2017		19		21	
5/8/2017	18		15		
5/26/2017					0.93
6/27/2017					
6/28/2017					1
6/30/2017					
7/5/2017		18	14		
7/7/2017				20	
7/10/2017	19				
10/3/2017					1.2
10/4/2017					
10/5/2017		19	15		
10/6/2017					
10/9/2017				20	
10/10/2017	19				
6/5/2018					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
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	18.1				
10/1/2018					1.1
10/2/2018	18.3		13.4		
10/3/2018		17.7		20.2	
3/28/2019					
3/29/2019					1.2
4/1/2019		17.2	13.1		
4/2/2019	17.9			19.5	
9/24/2019					0.95 (J)
9/25/2019	17.1		11.3		
9/26/2019		17.3		19.5	
3/18/2020					
3/19/2020		16		18.1	0.97 (J)
3/20/2020	17.7		11.3		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:55 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-3D (bg)	YGWA-30I (bg)	YGWC-26S	YGWC-26I	YGWC-27S
6/1/2016	0.15 (J)	<0.3	0.12 (J)						
6/2/2016				<0.3	0.62	<0.3			
6/8/2016							<0.3	0.094 (J)	0.12 (J)
6/9/2016									
7/25/2016	0.14 (J)	0.06 (J)				0.06 (J)			
7/26/2016			0.08 (J)	0.02 (J)	0.49				
8/1/2016							0.24 (J)	0.08 (J)	0.22 (J)
8/2/2016									
9/13/2016		<0.3	0.11 (J)						
9/14/2016	0.18 (J)								
9/15/2016				<0.3	0.54				
9/19/2016						<0.3			
9/20/2016							0.03 (J)	0.05 (J)	0.32
9/21/2016									
11/1/2016	<0.3 (*)		<0.3 (*)		0.68	<0.3 (*)			
11/2/2016				<0.3 (*)					
11/4/2016		<0.3 (*)							
11/7/2016							0.44	<0.3 (*)	<0.3 (*)
11/8/2016									
12/15/2016									
1/10/2017				<0.3					
1/11/2017	0.09 (J)		0.05 (J)		0.49				
1/16/2017		<0.3 (*)				<0.3			
1/18/2017							<0.3 (*)	0.11 (J)	
1/19/2017									0.25 (J)
2/21/2017						<0.3 (*)	<0.3 (*)	<0.3 (*)	
2/22/2017									0.21 (J)
2/23/2017									
3/1/2017	<0.3 (*)								
3/2/2017		<0.3 (*)	<0.3 (*)		0.48				
3/3/2017									
3/8/2017				<0.3 (*)					
4/26/2017	0.08 (J)			<0.3	0.48	<0.3			
4/27/2017		0.01 (J)	0.04 (J)						
4/28/2017									
5/3/2017							0.16 (J)		
5/5/2017									
5/8/2017								0.08 (J)	0.19 (J)
5/26/2017									
6/27/2017		<0.3 (*)	<0.3 (*)						
6/28/2017	0.12 (J)				0.47				
6/30/2017				<0.3		<0.3 (*)			0.2 (J)
7/5/2017									
7/7/2017									
7/10/2017							<0.3 (*)	<0.3 (*)	
10/3/2017		<0.3	<0.3 (*)						
10/4/2017	<0.3 (*)				<0.3 (*)	<0.3			
10/5/2017				<0.3					
10/6/2017									<0.3 (*)
10/9/2017									
10/10/2017							<0.3	<0.3	
3/27/2018		<0.3		<0.3		<0.3			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:55 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-3D (bg)	YGWA-30I (bg)	YGWC-26S	YGWC-26I	YGWC-27S
3/28/2018	<0.3				0.56				
3/29/2018			<0.3						0.49
3/30/2018							0.35	<0.3	
6/5/2018			0.055 (J)						
6/6/2018		<0.3							
6/7/2018					0.48				
6/8/2018	0.2 (J)			<0.3					
6/11/2018						<0.3			
6/12/2018									0.037 (J)
6/13/2018							0.044 (J)	0.088 (J)	
10/1/2018	<0.3	<0.3	<0.3	<0.3	0.44				
10/2/2018						<0.3	<0.3	<0.3	<0.3
10/3/2018									
2/26/2019				<0.3		<0.3			
2/27/2019	0.13 (J)	<0.3	0.052 (J)		0.53		<0.3	<0.3	0.14 (J)
3/28/2019		<0.3	0.036 (J)						
3/29/2019				<0.3					
4/1/2019	0.1 (J)				0.45	<0.3			0.088 (J)
4/2/2019							<0.3	0.071 (J)	
9/24/2019		<0.3	0.063 (J)						
9/25/2019	0.1 (J)			<0.3	0.46	<0.3	<0.3	0.064 (J)	
9/26/2019									0.22 (J)
2/10/2020		<0.3	0.061 (J)						
2/11/2020	0.094 (J)								
2/12/2020				<0.3	0.4	<0.3			
2/13/2020							<0.3	<0.3	0.11 (J)
3/18/2020		<0.3		<0.3					
3/19/2020	0.11 (J)		0.064 (J)		0.51	<0.3	<0.3		
3/20/2020								0.06 (J)	0.097 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	0.086 (J)				
6/9/2016		0.085 (J)	0.16 (J)	0.098 (J)	
7/25/2016					
7/26/2016					
8/1/2016	0.14 (J)				
8/2/2016		0.09 (J)	0.5	0.38	
9/13/2016					
9/14/2016					0.08 (J)
9/15/2016					
9/19/2016					
9/20/2016	<0.3				
9/21/2016		0.09 (J)	0.25 (J)	0.08 (J)	
11/1/2016					
11/2/2016					
11/4/2016					<0.3 (*)
11/7/2016	<0.3 (*)	<0.3 (*)	0.27 (J)		
11/8/2016				0.24 (J)	
12/15/2016					0.06 (J)
1/10/2017					
1/11/2017					
1/16/2017					0.1 (J)
1/18/2017	<0.3 (*)		0.34	0.12 (J)	
1/19/2017		<0.3 (*)			
2/21/2017			0.27 (J)		
2/22/2017		<0.3 (*)		<0.3 (*)	
2/23/2017	<0.3 (*)				
3/1/2017					
3/2/2017					
3/3/2017					<0.3 (*)
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017					0.06 (J)
5/3/2017					
5/5/2017			0.2 (J)	0.08 (J)	
5/8/2017	0.07 (J)	0.06 (J)			
5/26/2017					0.09 (J)
6/27/2017					
6/28/2017					0.11 (J)
6/30/2017	<0.3 (*)				
7/5/2017		0.08 (J)		0.11 (J)	
7/7/2017			0.18 (J)		
7/10/2017					
10/3/2017					<0.3 (*)
10/4/2017					
10/5/2017		<0.3 (*)		<0.3 (*)	
10/6/2017					
10/9/2017	<0.3 (*)		<0.3 (*)		
10/10/2017					
3/27/2018					

Prediction Limit

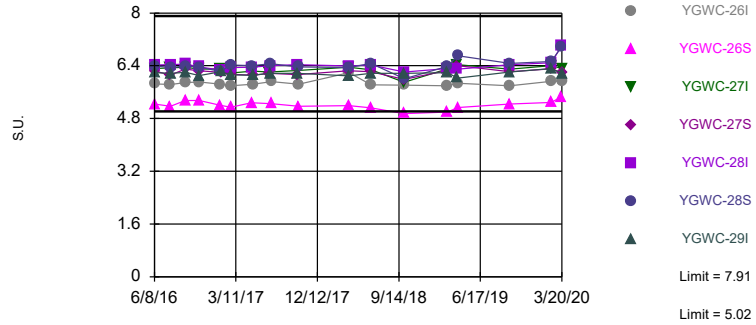
Constituent: Fluoride (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
3/28/2018					0.31
3/29/2018	<0.3	<0.3			
3/30/2018			<0.3	<0.3	
6/5/2018					
6/6/2018					
6/7/2018					0.11 (J)
6/8/2018					
6/11/2018		<0.3			
6/12/2018			0.13 (J)	<0.3	
6/13/2018	<0.3				
10/1/2018					<0.3
10/2/2018	<0.3	<0.3			
10/3/2018			0.31	<0.3	
2/26/2019					
2/27/2019	<0.3	0.15 (J)	0.22 (J)	0.14 (J)	0.12 (J)
3/28/2019					
3/29/2019					0.13 (J)
4/1/2019	0.034 (J)	0.059 (J)		0.078 (J)	
4/2/2019			0.14 (J)		
9/24/2019					0.081 (J)
9/25/2019		0.054 (J)			
9/26/2019	0.14 (J)		0.28 (J)	0.29 (J)	
2/10/2020					
2/11/2020					0.075 (J)
2/12/2020					
2/13/2020	<0.3	0.053 (J)	0.18 (J)	0.14 (J)	
3/18/2020					
3/19/2020			0.16 (J)	0.07 (J)	0.093 (J)
3/20/2020	<0.3	0.057 (J)			

Within Limits

Prediction Limit
Interwell Non-parametric

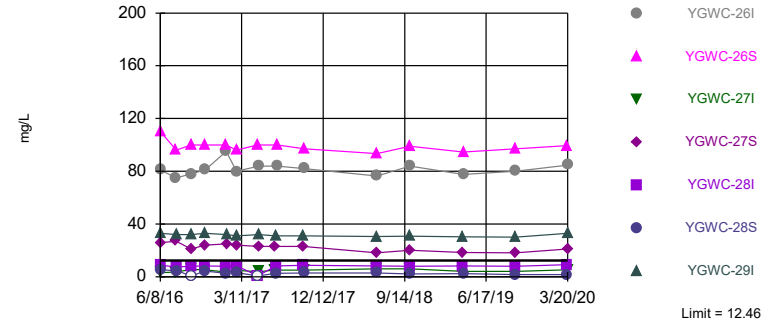


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 119 background values. Annual per-constituent alpha = 0.003855. Individual comparison alpha = 0.0002756 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S,
YGWC-27S, YGWC-29I

Prediction Limit
Interwell Parametric

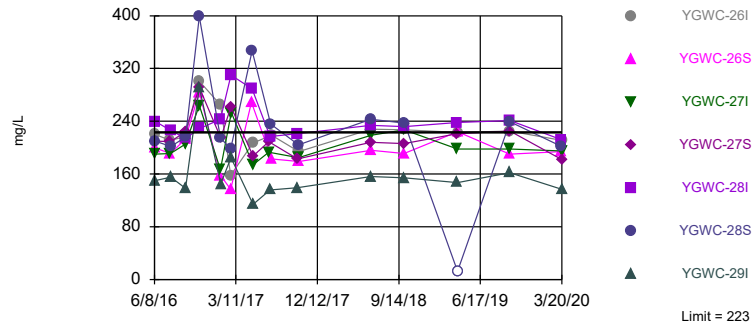


Background Data Summary: Mean=6.415, Std. Dev.=3.211, n=98, 2.041% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.979, critical = 0.966. Kappa = 1.882 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 5/12/2020 3:54 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 Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 98 background values. 2.041% NDs. Annual per-constituent alpha = 0.002821. Individual comparison alpha = 0.0002018 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 5/12/2020 3:54 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:55 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-3D (bg)	YGWA-30I (bg)	YGWC-26I	YGWC-26S	YGWC-27S
6/1/2016	7.72	6.33	7.46						
6/2/2016				5.46	7.84	5.75			
6/8/2016							5.85	5.24	6.24
6/9/2016									
7/25/2016	7.74	6.21				5.82			
7/26/2016			7.43	5.45	7.88				
8/1/2016							5.83	5.17	6.12
8/2/2016									
9/13/2016		6.16	7.44						
9/14/2016	7.65								
9/15/2016				5.45	7.74				
9/19/2016						5.78 (D)			
9/20/2016							5.89	5.35	6.3
9/21/2016									
11/1/2016	7.7		7.24		7.75	5.62			
11/2/2016				5.41					
11/4/2016		6.29							
11/7/2016							5.91	5.35	6.25
11/8/2016									
12/15/2016									
1/10/2017				5.37					
1/11/2017	7.53		7.3		7.66				
1/16/2017		6.29				5.72			
1/18/2017							5.84	5.2	
1/19/2017									6.2
2/21/2017						5.67	5.79	5.14	
2/22/2017									6.14
2/23/2017									
3/1/2017	7.42								
3/2/2017		6.28	7.23		7.68				
3/3/2017									
3/8/2017				5.41					
4/26/2017	7.4			5.02	7.45	5.56			
4/27/2017		6.09	6.99						
4/28/2017									
5/3/2017							5.28		
5/5/2017									
5/8/2017							5.84		6.11
5/26/2017									
6/27/2017		6.21	6.87						
6/28/2017	7.5				7.65				
6/30/2017				5.39		5.72			6.17
7/5/2017									
7/7/2017									
7/10/2017							5.92	5.25	
10/3/2017		5.98	6.81						
10/4/2017	7.45				7.49	5.87			
10/5/2017				5.49					
10/6/2017									6.13
10/9/2017									
10/10/2017							5.84	5.17	
3/27/2018		6.25		5.47		5.83			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:55 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-3D (bg)	YGWA-30I (bg)	YGWC-26I	YGWC-26S	YGWC-27S
3/28/2018	7.74				7.91				
3/29/2018			7.38						6.25
3/30/2018							6.19	5.19	
6/5/2018			7.16						
6/6/2018		6.17							
6/7/2018					7.69				
6/8/2018	7.64			5.45					
6/11/2018						5.69			
6/12/2018									6.22
6/13/2018							5.82	5.12	
10/1/2018	7.47	5.9	6.8	5.39	7.39				
10/2/2018						5.39	5.81	4.95	5.99
10/3/2018									
2/26/2019				5.46		5.77			
2/27/2019	7.54	5.8	6.84		7.55		5.79	5	6.26
3/28/2019		6.15	6.99						
3/29/2019				5.34					
4/1/2019	7.74				7.87	5.62			6.4
4/2/2019							5.87	5.13	
9/24/2019		6.23	7.07						
9/25/2019	7.47			5.19	7.64	5.69	5.79	5.24	
9/26/2019									6.22
2/10/2020		6.1	7.2						
2/11/2020	7.09								
2/12/2020				5.48	7.83	5.8			
2/13/2020							5.93	5.29	6.31
3/18/2020		6.19		5.38					
3/19/2020	7.31		7.03		7.65	6		5.46	
3/20/2020							5.94		6.18

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	6.32				
6/9/2016		6.39	6.42	6.19	
7/25/2016					
7/26/2016					
8/1/2016	6.34				
8/2/2016		6.35	6.43	6.17	
9/13/2016					7.41
9/14/2016					
9/15/2016					
9/19/2016					
9/20/2016	6.36				
9/21/2016		6.39	6.45	6.2	
11/1/2016					
11/2/2016					
11/4/2016					7.12
11/7/2016	6.3	6.36		6.1	
11/8/2016			6.37		
12/15/2016					7.24
1/10/2017					
1/11/2017					
1/16/2017					7.24
1/18/2017	6.31	6.23	6.27		
1/19/2017				6.22	
2/21/2017		6.42			
2/22/2017			6.35	6.12	
2/23/2017	6.18				
3/1/2017					
3/2/2017					
3/3/2017					7.22
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017					7.21
5/3/2017					
5/5/2017		6.4	6.36		
5/8/2017	6.24			6.11	
5/26/2017					7.13
6/27/2017					
6/28/2017					7.06
6/30/2017	6.21				
7/5/2017			6.4	6.17	
7/7/2017		6.46			
7/10/2017					
10/3/2017					6.99
10/4/2017					
10/5/2017			6.43	6.17	
10/6/2017					
10/9/2017	6.26	6.37			
10/10/2017					
3/27/2018					

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-2I (bg)
3/28/2018					7.3
3/29/2018	6.36			6.09	
3/30/2018		6.35	6.39		
6/5/2018					
6/6/2018					
6/7/2018					7.29
6/8/2018					
6/11/2018				6.17	
6/12/2018		6.47	6.42		
6/13/2018	6.28				
10/1/2018					7.07
10/2/2018	5.9			6.17	
10/3/2018		6.01	6.21		
2/26/2019					
2/27/2019	6.31	6.38	6.32	6.19	7.27
3/28/2019					
3/29/2019					7.06
4/1/2019	6.43		6.3	6.03	
4/2/2019		6.7			
9/24/2019					7.01
9/25/2019				6.21	
9/26/2019	6.3	6.47	6.43		
2/10/2020					
2/11/2020					7.38
2/12/2020					
2/13/2020	6.4	6.53	6.49	6.32	
3/18/2020					
3/19/2020		6.98	7.01		7.22
3/20/2020	6.32			6.17	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/1/2016	4.2	12	5						
6/2/2016				1.3	5.8	6.6			
6/8/2016							26	3.2	110
6/9/2016									
7/25/2016	3.7	8.4		1.2					
7/26/2016			5.4		6.7	6.1			
8/1/2016							27	3.6	96
8/2/2016									
9/13/2016	5.2		2.9						
9/14/2016		8.6							
9/15/2016					6	6.1			
9/19/2016				1.2					
9/20/2016							21	5.6	100
9/21/2016									
11/1/2016		8.9	3.9	1.3	4.9				
11/2/2016						6.3			
11/4/2016	5								
11/7/2016							24	5.4	100
11/8/2016									
12/15/2016									
1/10/2017						5.9			
1/11/2017		8.6	3.7		4.5				
1/16/2017	7.9			<1.5 (*)					
1/18/2017								3.5	100
1/19/2017							25		
2/21/2017				1.4					96
2/22/2017							24		
2/23/2017								4.9	
3/1/2017		9.3							
3/2/2017	7.4		4.6		4.4				
3/3/2017									
3/8/2017						7			
4/26/2017		11		1.4	5.1	7			
4/27/2017	7.4		5.2						
4/28/2017									
5/3/2017									100
5/5/2017									
5/8/2017							23	3.9	
5/26/2017									
6/27/2017	6.4		5.9						
6/28/2017		12			5.4				
6/30/2017				<1.5 (*)		6.5	23	5	
7/5/2017									
7/7/2017									
7/10/2017									100
10/3/2017	5.9		6.6						
10/4/2017		12		1.4	6.2				
10/5/2017						7.9			
10/6/2017							23		
10/9/2017								5.1	
10/10/2017									97
6/5/2018			6.4						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/6/2018	4.4								
6/7/2018					6.7				
6/8/2018		9.6				6.4			
6/11/2018				1.1					
6/12/2018							18.1		
6/13/2018								6.1	93.3
10/1/2018	4	9.1	5.6		7.1	6.8			
10/2/2018				1			20.2	6.1	99
10/3/2018									
3/28/2019	4.3		8						
3/29/2019						7.3			
4/1/2019		8.5		0.96 (J)	7.2		18.3	4.1	
4/2/2019									94.5
9/24/2019	4.3		5.3						
9/25/2019		13.8		0.81 (J)	7	6.6			97
9/26/2019							18.2	4.2	
3/18/2020	5.3					8.1			
3/19/2020		12.9	10	1.6	9				99.4
3/20/2020							21.1	5.2	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	81				
6/9/2016		8.7	33	5.2	
7/25/2016					
7/26/2016					
8/1/2016	75				
8/2/2016		7.5	32	4.5	
9/13/2016					
9/14/2016					9.4
9/15/2016					
9/19/2016					
9/20/2016	78				
9/21/2016		8	32	<1.5 (*)	
11/1/2016					
11/2/2016					
11/4/2016					13
11/7/2016	81		33	4.3	
11/8/2016		8.3			
12/15/2016					1.8
1/10/2017					
1/11/2017					
1/16/2017					11
1/18/2017	95	8		2.7	
1/19/2017			32		
2/21/2017	80			3	
2/22/2017		8.2	31		
2/23/2017					
3/1/2017					
3/2/2017					
3/3/2017					8.8
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017					10
5/3/2017					
5/5/2017		<1.5 (*)		<1.5 (*)	
5/8/2017	84		32		
5/26/2017					12
6/27/2017					
6/28/2017					11
6/30/2017					
7/5/2017		8.1	31		
7/7/2017				2.7	
7/10/2017	84				
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	82				
6/5/2018					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
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	76.5				
10/1/2018					9.1
10/2/2018	83.9		30.8		
10/3/2018		8		2.1	
3/28/2019					
3/29/2019					9
4/1/2019		8.2	30.4		
4/2/2019	77.6			2.4	
9/24/2019					9.1
9/25/2019	80.1		30		
9/26/2019		7.9		1.6	
3/18/2020					
3/19/2020		9.1		1.7	12.4
3/20/2020	84.7		33		

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/1/2016	54	150	120						
6/2/2016				36	130	46			
6/8/2016							210	190	200
6/9/2016									
7/25/2016	48	135		50					
7/26/2016			94		141	54			
8/1/2016							209	191	191
8/2/2016									
9/13/2016	67		105						
9/14/2016		127							
9/15/2016					153	54			
9/19/2016				35					
9/20/2016							224	205	213
9/21/2016									
11/1/2016		75	44	<25	92				
11/2/2016						71			
11/4/2016	60								
11/7/2016							291	264	284
11/8/2016									
12/15/2016									
1/10/2017						45			
1/11/2017		148	107		159				
1/16/2017	65			47					
1/18/2017								167 (D)	158 (D)
1/19/2017							215 (D)		
2/21/2017				<25					137
2/22/2017							262		
2/23/2017								253	
3/1/2017		182							
3/2/2017	61		98		117				
3/3/2017									
3/8/2017						178			
4/26/2017		92		55	181	52			
4/27/2017	31		116						
4/28/2017									
5/3/2017									269
5/5/2017									
5/8/2017							187	174	
5/26/2017									
6/27/2017	42		89						
6/28/2017		126			169				
6/30/2017				42		45	209	193	
7/5/2017									
7/7/2017									
7/10/2017									183
10/3/2017	58		119						
10/4/2017		147		31	141				
10/5/2017						40			
10/6/2017							183		
10/9/2017								185	
10/10/2017									179
6/5/2018			127						

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-1I (bg)	YGWA-3I (bg)	YGWA-1D (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-14S (bg)	YGWC-27S	YGWC-27I	YGWC-26S
6/6/2018	96								
6/7/2018					95				
6/8/2018		158				114			
6/11/2018				59					
6/12/2018							208		
6/13/2018								219	196
10/1/2018	60	138	117		165	50			
10/2/2018				57			206	227	191
10/3/2018									
3/28/2019	87		87						
3/29/2019						63			
4/1/2019		19 (J)		54	149		221	198	
4/2/2019									224
9/24/2019	54		124						
9/25/2019		159		51	157	64			190
9/26/2019							225	198	
3/18/2020	35					57			
3/19/2020		148	116	47	146				194
3/20/2020							182	195	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	220				
6/9/2016		240	150	210	
7/25/2016					
7/26/2016					
8/1/2016	211				
8/2/2016		226	155	202	
9/13/2016					
9/14/2016					152
9/15/2016					
9/19/2016					
9/20/2016	217				
9/21/2016		214	138	216	
11/1/2016					
11/2/2016					
11/4/2016					148
11/7/2016	301		291	399	
11/8/2016		229			
12/15/2016					191
1/10/2017					
1/11/2017					
1/16/2017					180
1/18/2017	265 (D)	243 (D)		215 (D)	
1/19/2017			145 (D)		
2/21/2017	158			198	
2/22/2017		310	185		
2/23/2017					
3/1/2017					
3/2/2017					
3/3/2017					156
3/8/2017					
4/26/2017					
4/27/2017					
4/28/2017					130
5/3/2017					
5/5/2017		289		347	
5/8/2017	207		114		
5/26/2017					223
6/27/2017					
6/28/2017					166
6/30/2017					
7/5/2017		217	136		
7/7/2017				236	
7/10/2017	219				
10/3/2017					153
10/4/2017					
10/5/2017		221	139		
10/6/2017					
10/9/2017				204	
10/10/2017	194				
6/5/2018					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/12/2020 3:55 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/6/2018					
6/7/2018					146
6/8/2018					
6/11/2018			156		
6/12/2018		234		243	
6/13/2018	228				
10/1/2018					155
10/2/2018	227		154		
10/3/2018		232		237	
3/28/2019					
3/29/2019					150
4/1/2019		238	147		
4/2/2019	223			<25	
9/24/2019					146
9/25/2019	225		162		
9/26/2019		241		239	
3/18/2020					
3/19/2020		212		202	148
3/20/2020	211		137		

FIGURE F.

Appendix III Trend Tests - PL Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	YGWA-14S (bg)	-0.05271	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1D (bg)	1.11	48	44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-26S	-1.022	-55	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-27S	-0.9221	-63	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-29I	-0.605	-47	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.261	51	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.7245	46	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-27S	-2.238	-55	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-29I	-0.6353	-49	-44	Yes	14	0	n/a	n/a	0.02	NP

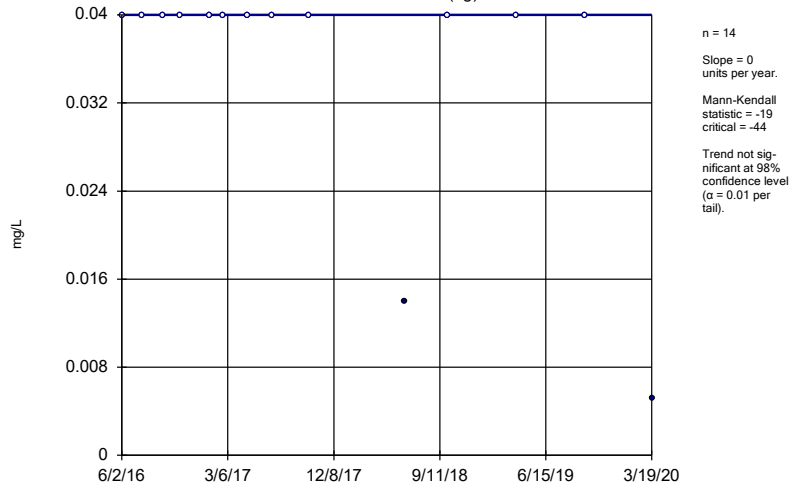
Appendix III Trend Tests - PL Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 3:59 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.002489	-37	-44	No	14	14.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-1D (bg)	-0.001025	-26	-44	No	14	14.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-1I (bg)	0	-33	-44	No	14	64.29	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-2I (bg)	0	-26	-44	No	14	71.43	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-30I (bg)	0	-19	-44	No	14	85.71	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-3D (bg)	0	-13	-44	No	14	57.14	n/a	n/a	0.02	NP
Boron (mg/L)	YGWA-3I (bg)	0	-13	-44	No	14	92.86	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-26I	-0.01726	-15	-44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-26S	0.005659	17	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-27I	0.02751	6	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-27S	0.02086	19	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-28I	0.1086	27	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-28S	0.08094	21	44	No	14	0	n/a	n/a	0.02	NP
Boron (mg/L)	YGWC-29I	-0.01791	-35	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.05271	-60	-44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1D (bg)	1.11	48	44	Yes	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-1I (bg)	-0.1025	-37	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-2I (bg)	0.9579	31	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-30I (bg)	-0.0134	-7	-44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-3D (bg)	1.219	40	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWA-3I (bg)	0.4381	18	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWC-27S	0.4551	10	44	No	14	0	n/a	n/a	0.02	NP
Calcium (mg/L)	YGWC-28I	-0.3982	-15	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-14S (bg)	0	6	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-11	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-1I (bg)	0	-5	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-2I (bg)	-0.03701	-16	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-30I (bg)	0	4	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.07067	-33	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.04953	-37	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-26I	0	-9	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-26S	-1.022	-55	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-27I	0	13	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-27S	-0.9221	-63	-44	Yes	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-28I	-0.215	-39	-44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-28S	0.02755	11	44	No	14	0	n/a	n/a	0.02	NP
Chloride (mg/L)	YGWC-29I	-0.605	-47	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-14S (bg)	0.3425	40	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1D (bg)	1.261	51	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-1I (bg)	-0.1237	-7	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-2I (bg)	0	0	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-30I (bg)	-0.05321	-7	-44	No	14	14.29	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3D (bg)	0.7245	46	44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWA-3I (bg)	0.6413	31	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-26I	0.7464	13	44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-26S	-0.5868	-29	-44	No	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-27S	-2.238	-55	-44	Yes	14	0	n/a	n/a	0.02	NP
Sulfate (mg/L)	YGWC-29I	-0.6353	-49	-44	Yes	14	0	n/a	n/a	0.02	NP

Sen's Slope Estimator

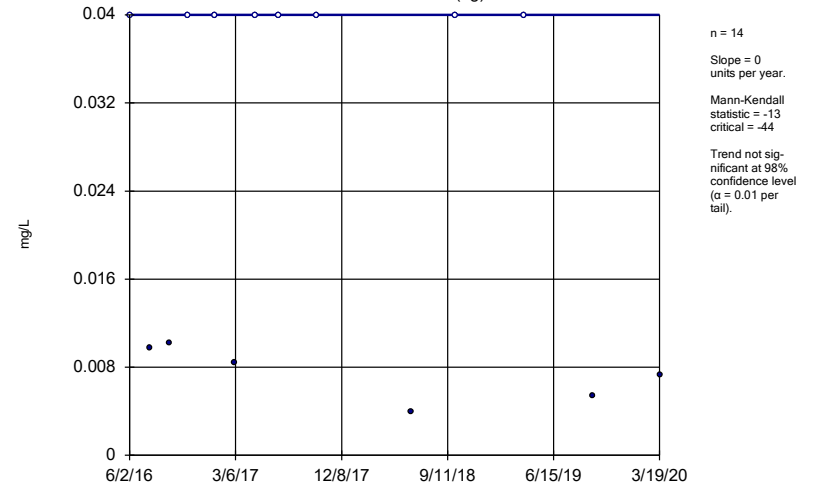
YGWA-30I (bg)



Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

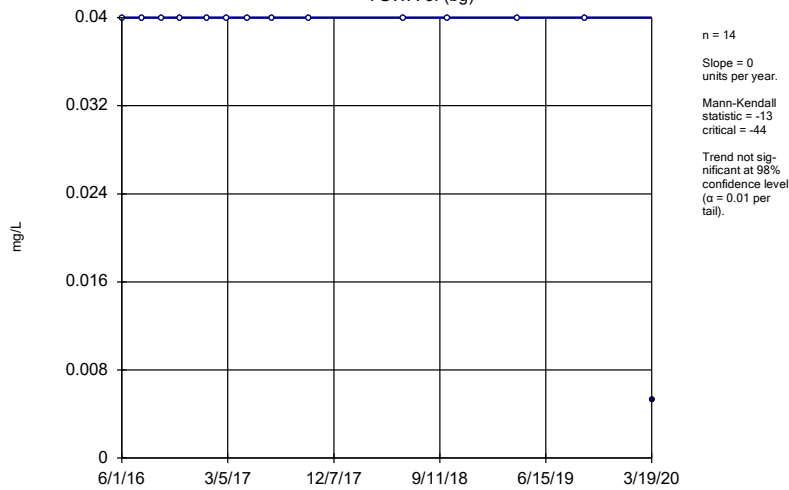
YGWA-3D (bg)



Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

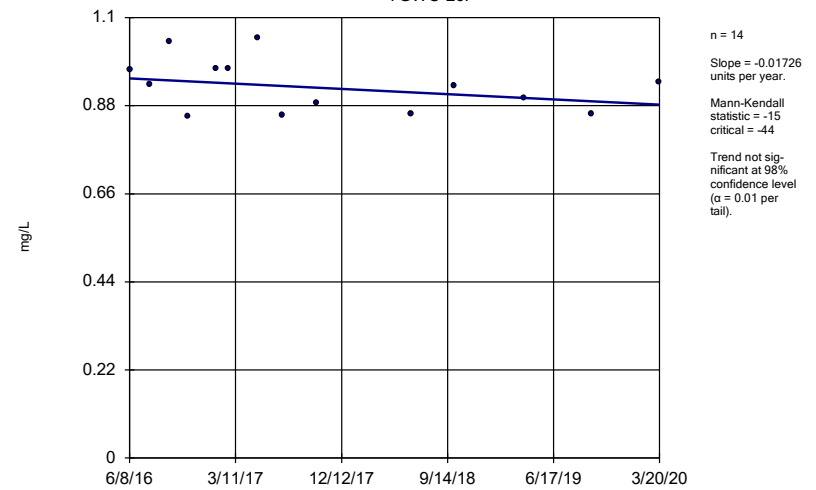
YGWA-3I (bg)



Constituent: Boron Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

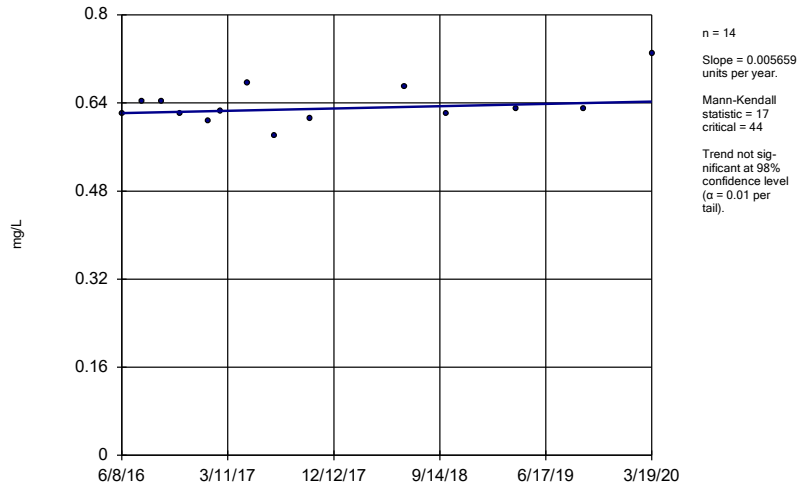
Sen's Slope Estimator

YGWC-26I



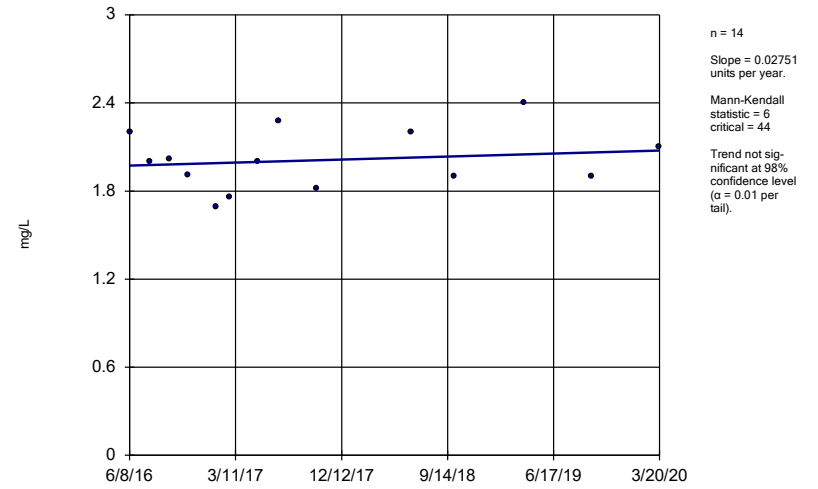
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



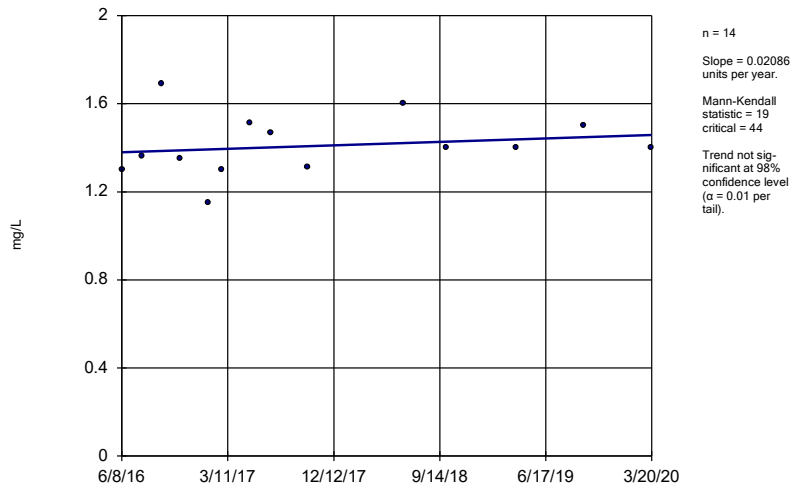
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27I



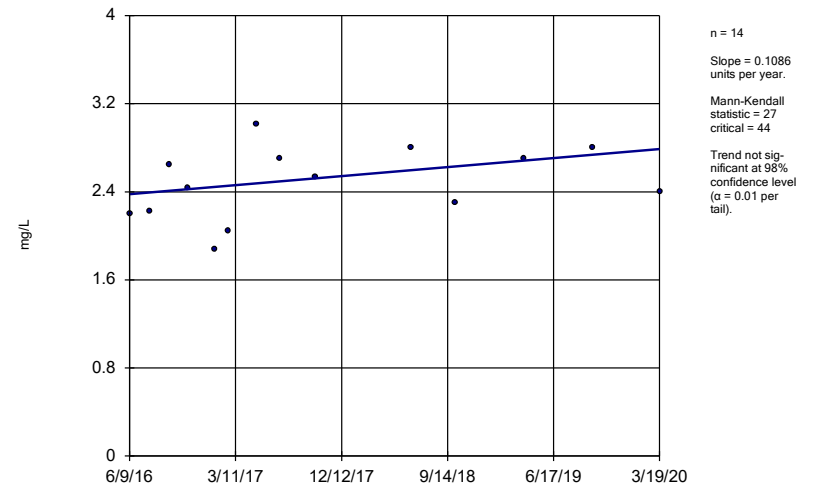
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



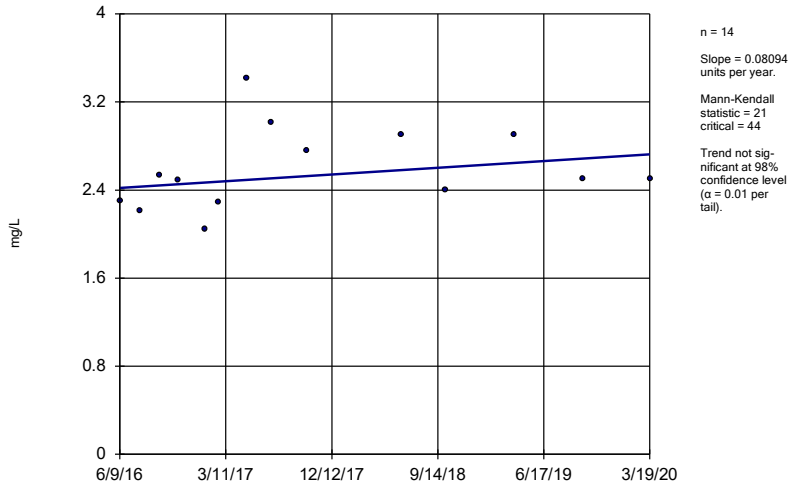
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



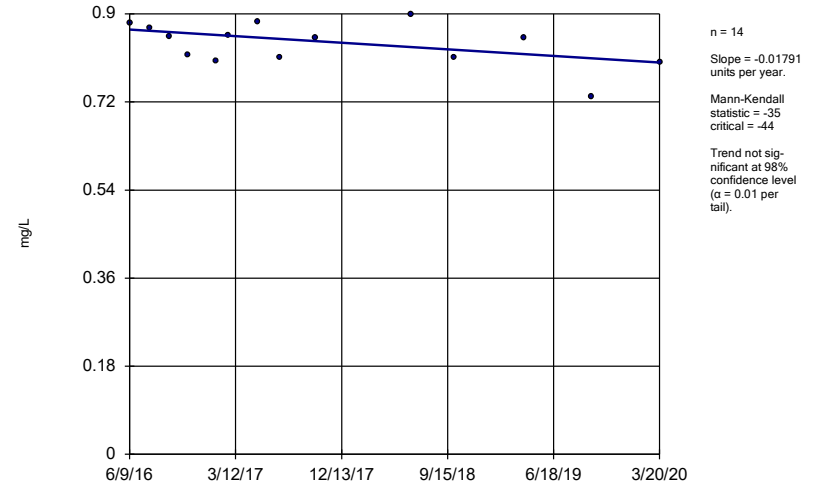
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28S



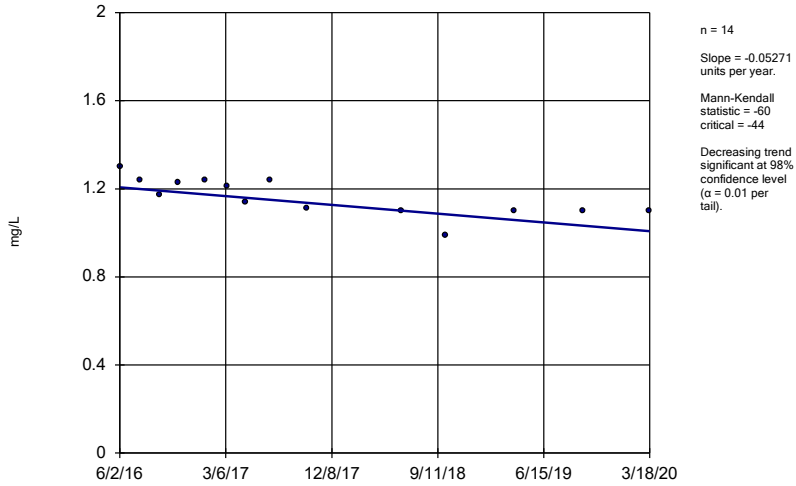
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-29I



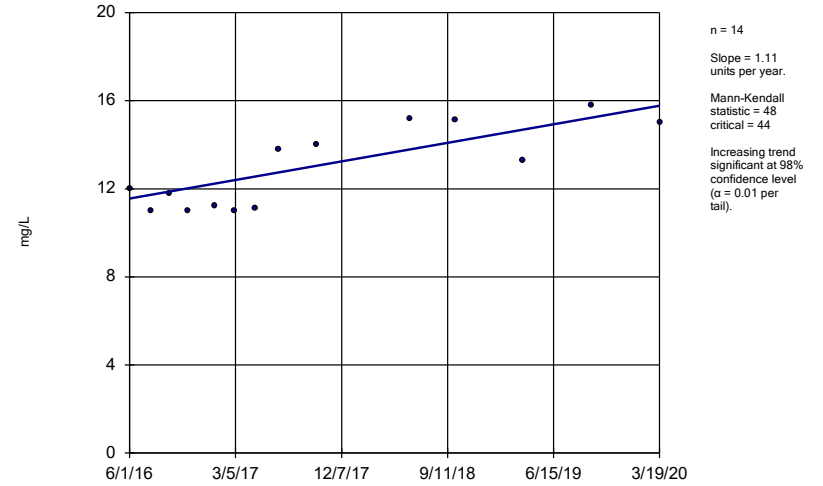
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-14S (bg)



Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

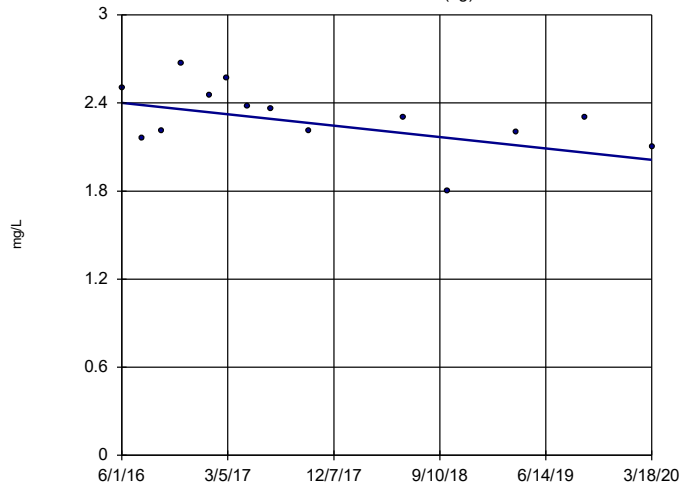
Sen's Slope Estimator
YGWA-1D (bg)



Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-11 (bg)

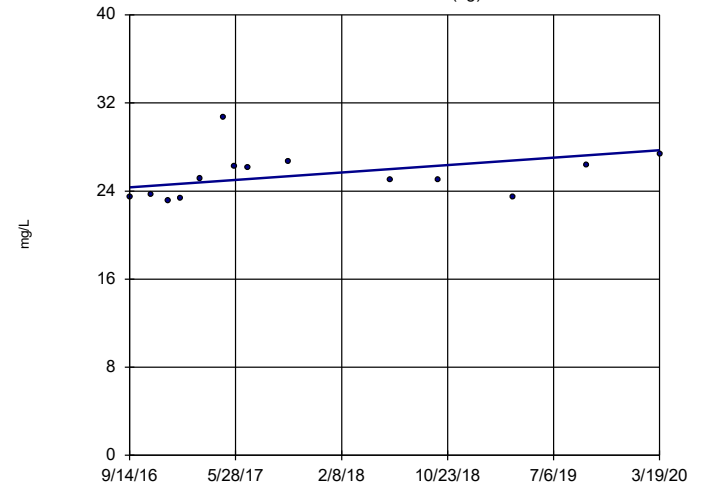


n = 14
Slope = -0.1025
units per year.
Mann-Kendall
statistic = -37
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21 (bg)

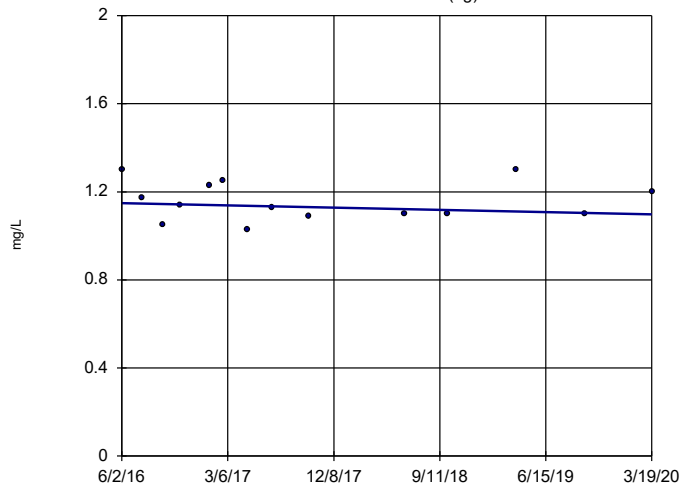


n = 14
Slope = 0.9579
units per year.
Mann-Kendall
statistic = 31
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

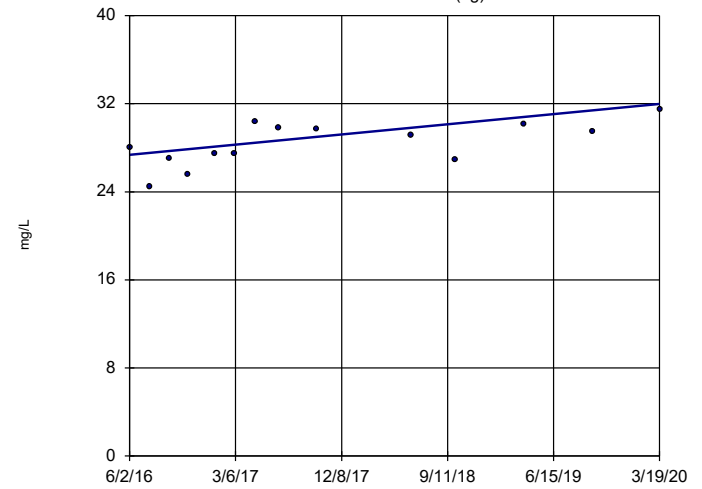


n = 14
Slope = -0.0134
units per year.
Mann-Kendall
statistic = -7
critical = -44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

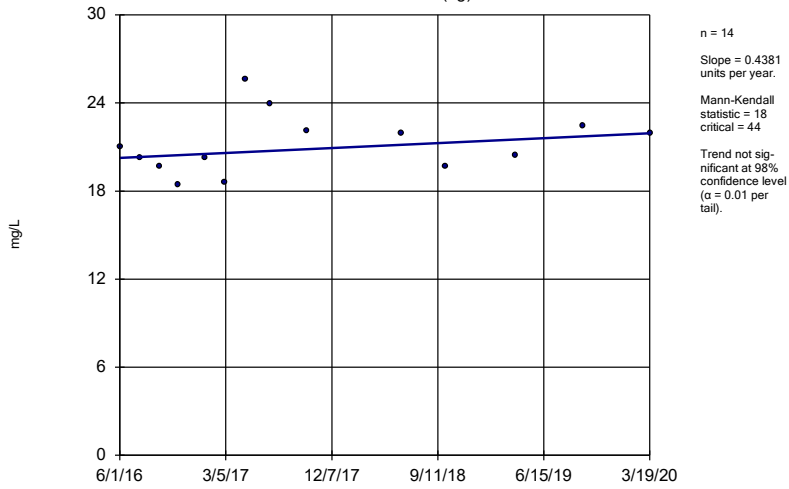
YGWA-3D (bg)



n = 14
Slope = 1.219
units per year.
Mann-Kendall
statistic = 40
critical = 44
Trend not sig-
nificant at 98%
confidence level
($\alpha = 0.01$ per
tail).

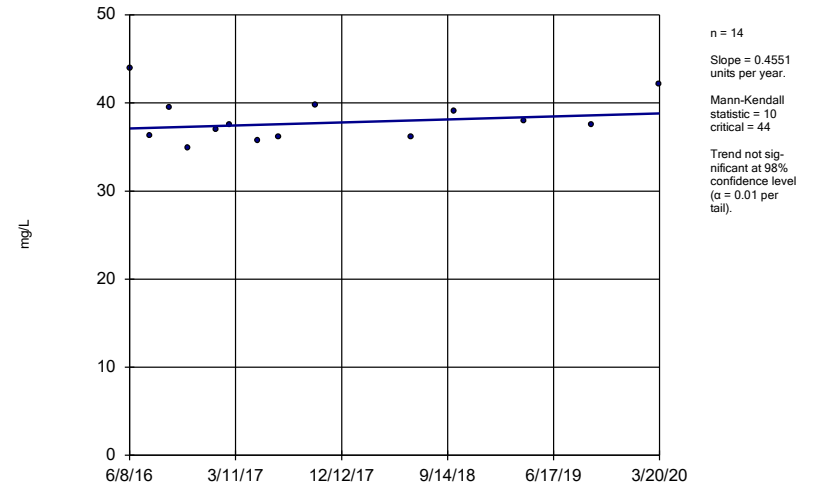
Constituent: Calcium Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-3I (bg)



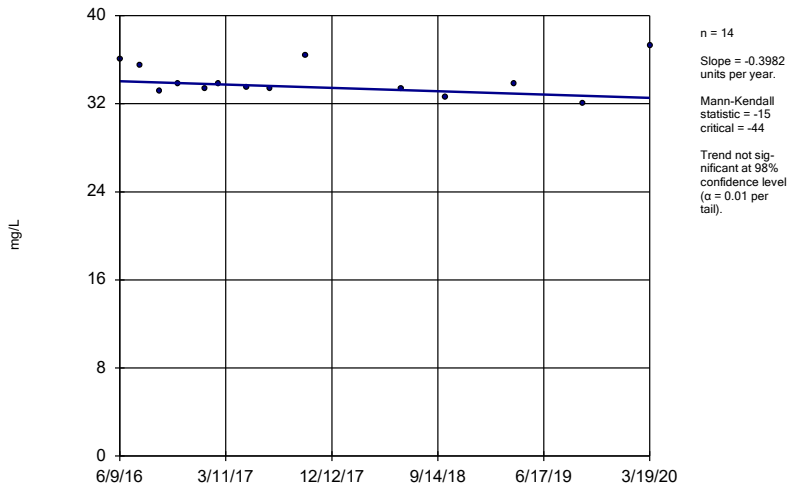
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



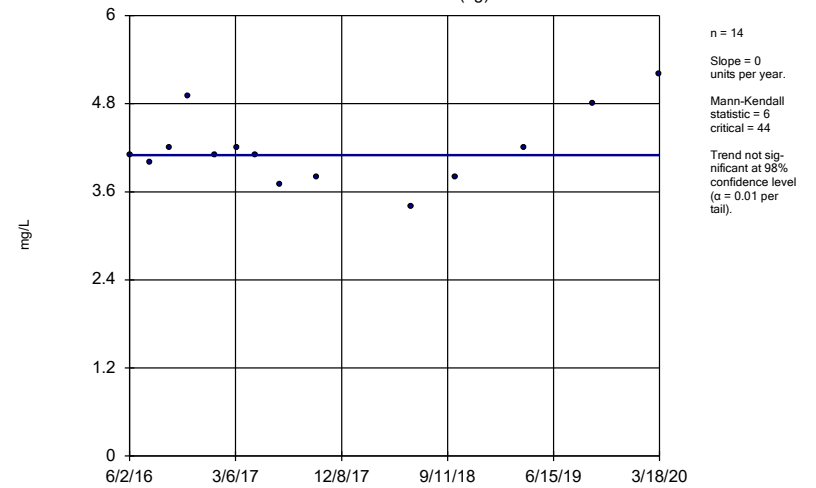
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I



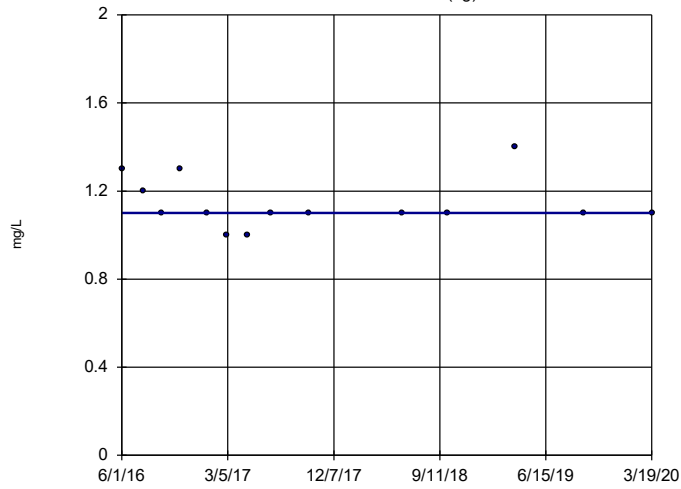
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



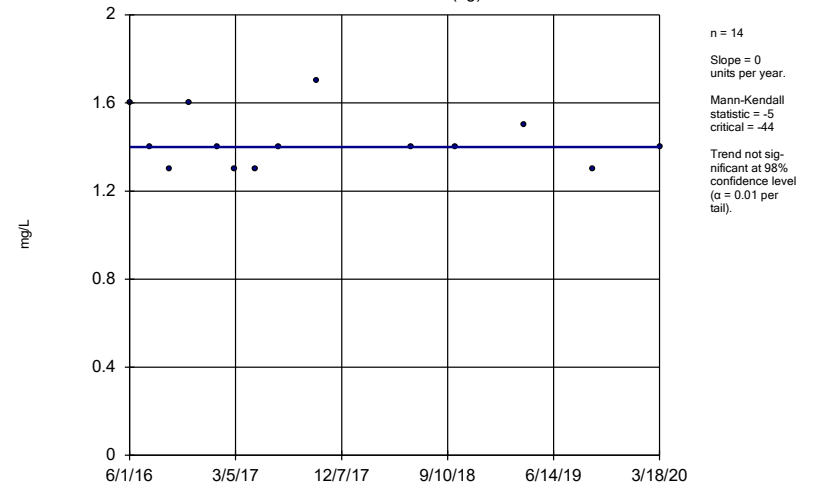
Constituent: Chloride Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1D (bg)



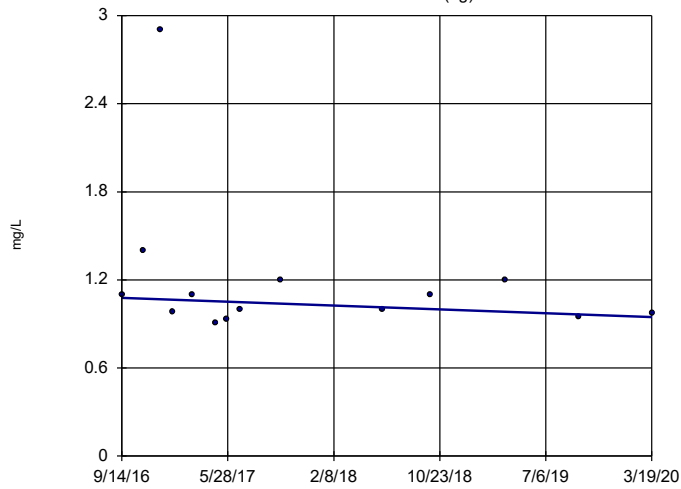
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-1I (bg)



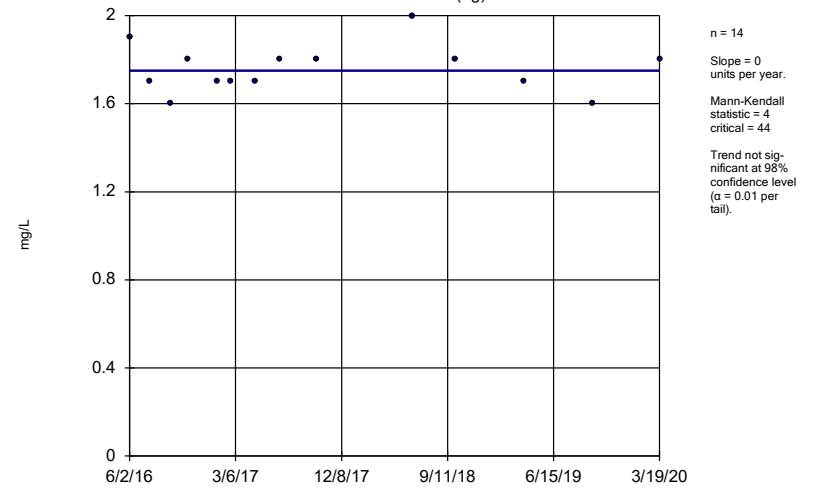
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-2I (bg)



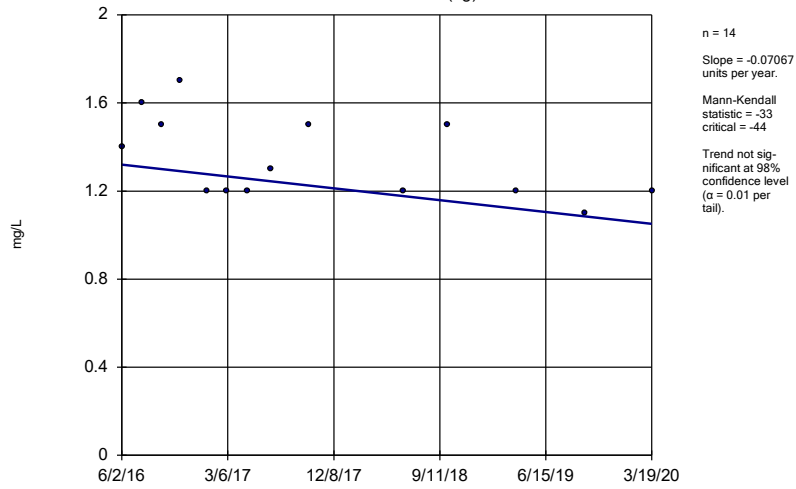
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-30I (bg)



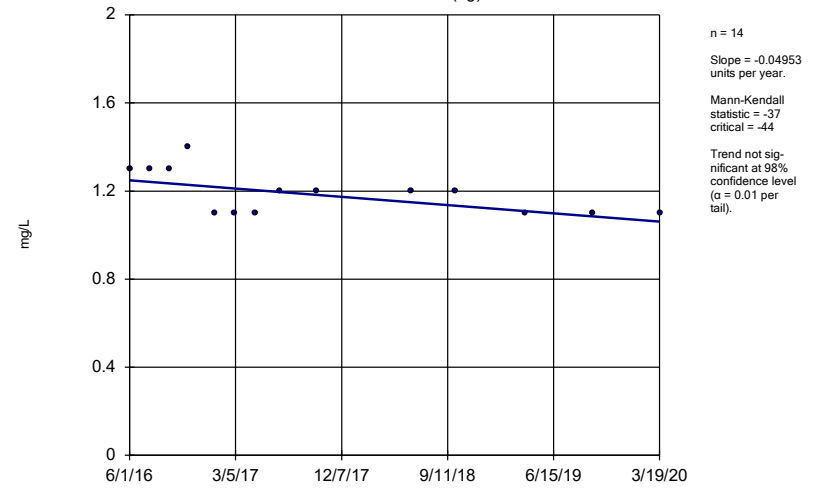
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-3D (bg)



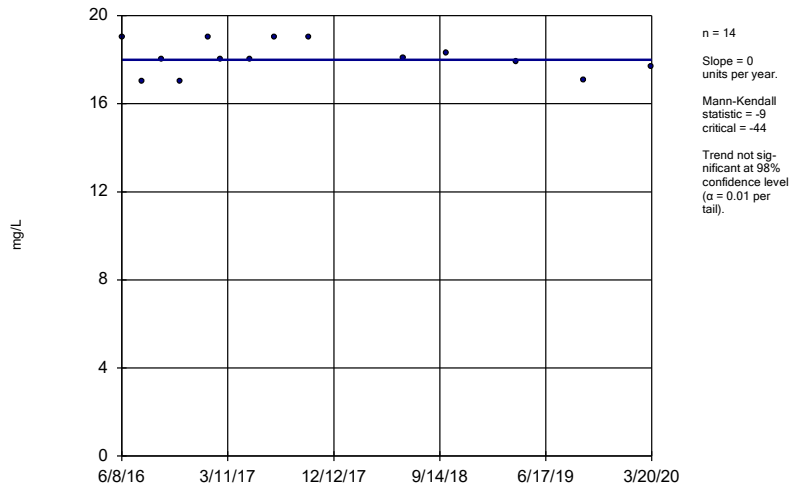
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-3I (bg)



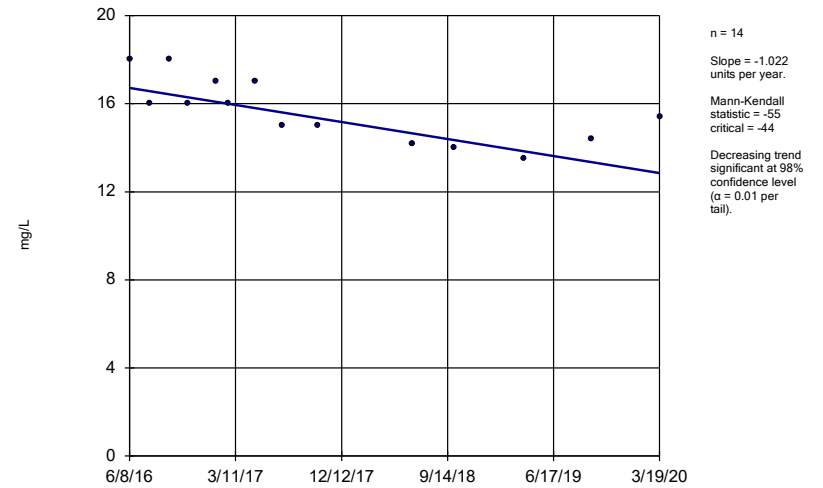
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-26I



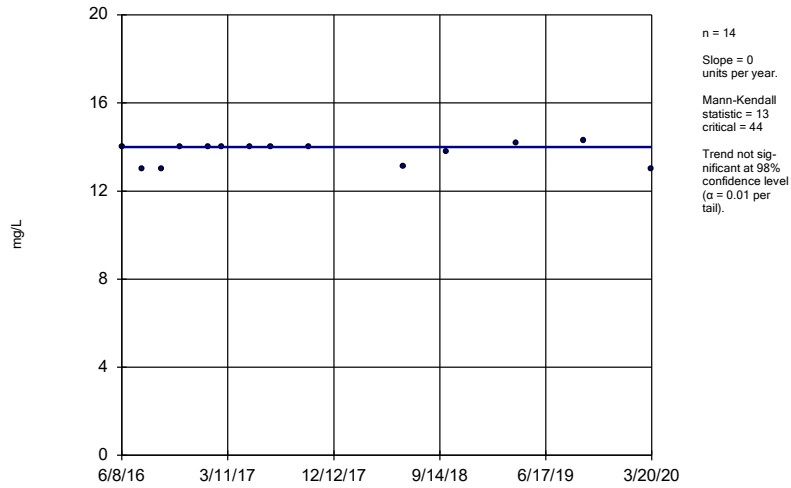
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-26S



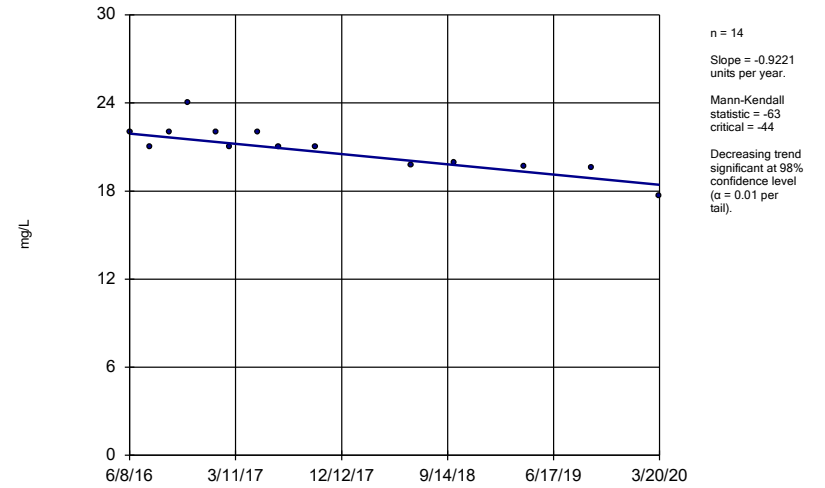
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27I



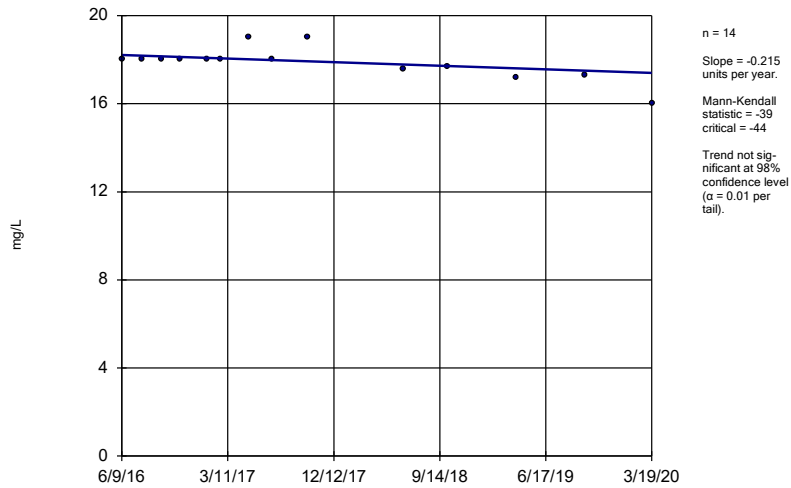
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27S



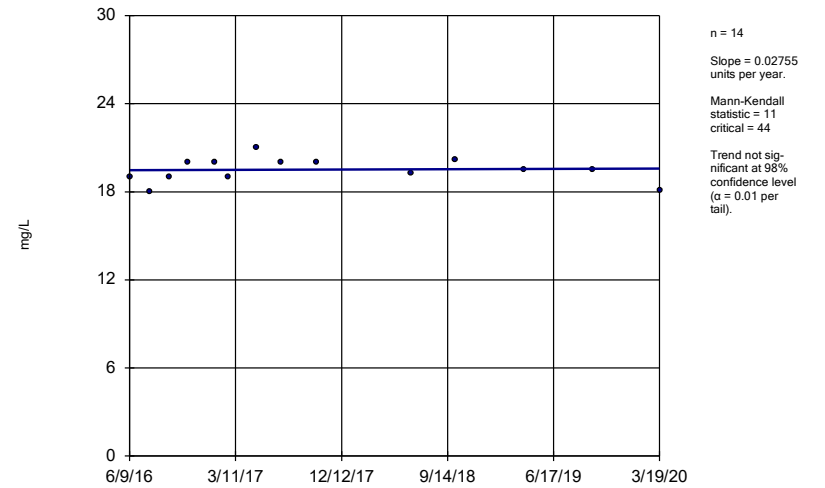
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28I



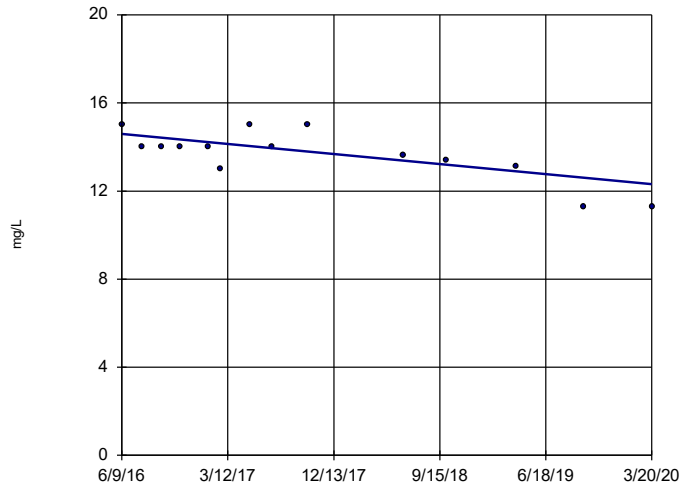
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28S



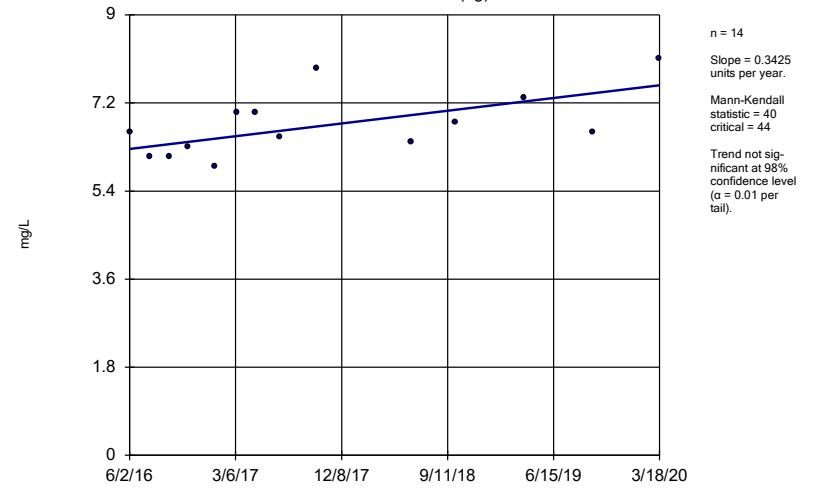
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



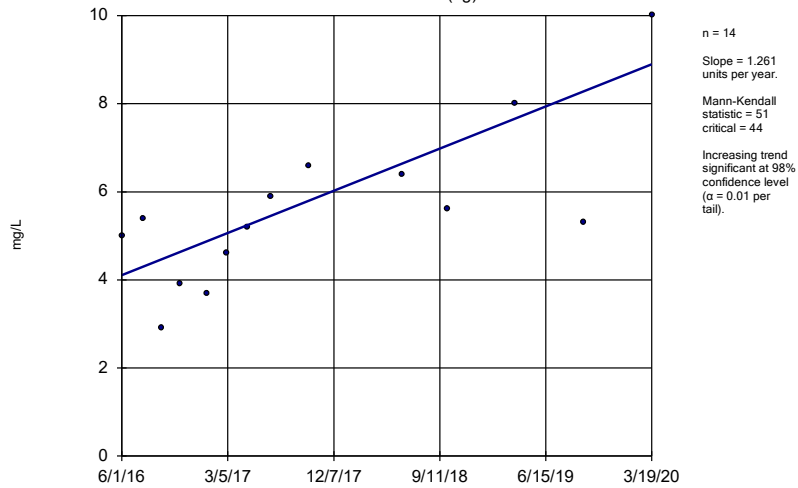
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



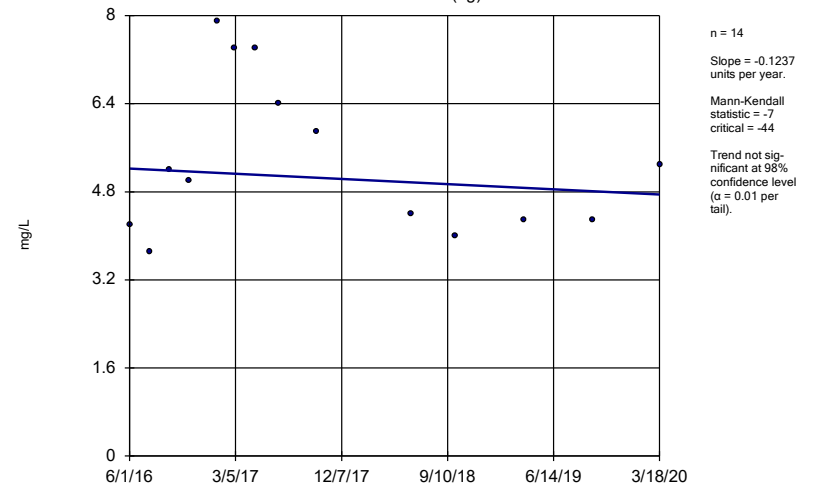
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

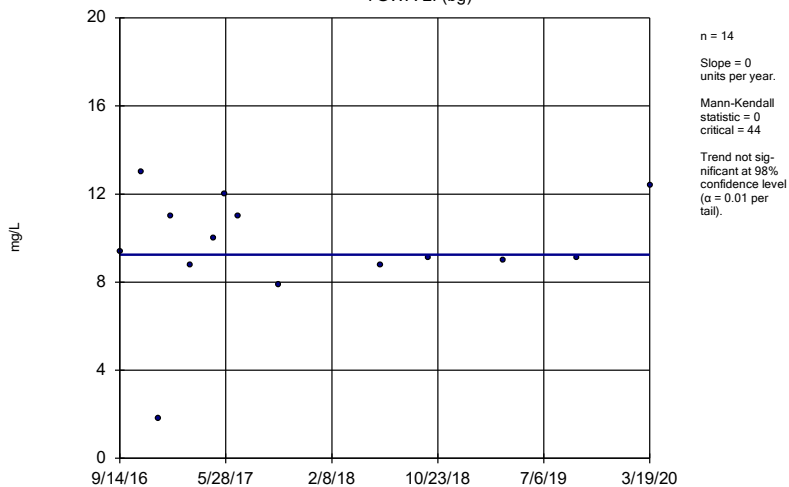
Sen's Slope Estimator YGWA-1I (bg)



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

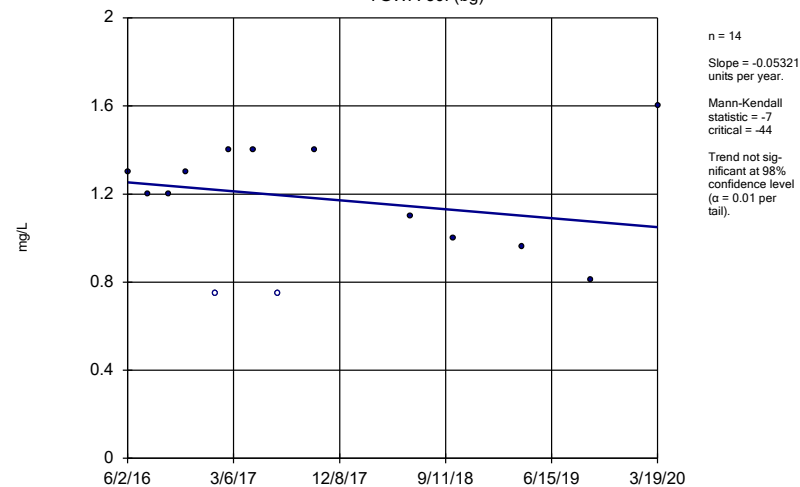
YGWA-2l (bg)



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

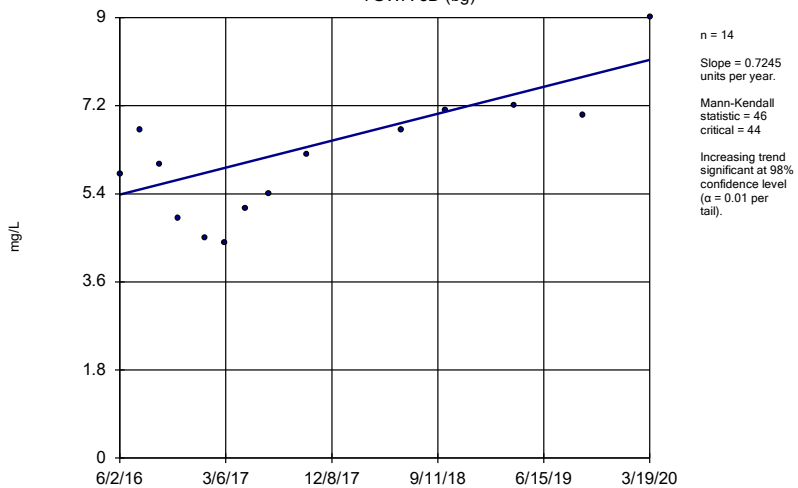
YGWA-30l (bg)



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

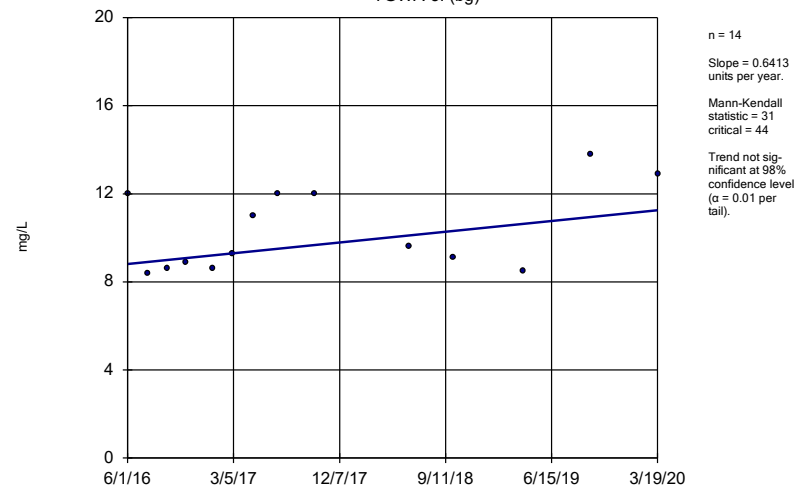
YGWA-3D (bg)



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

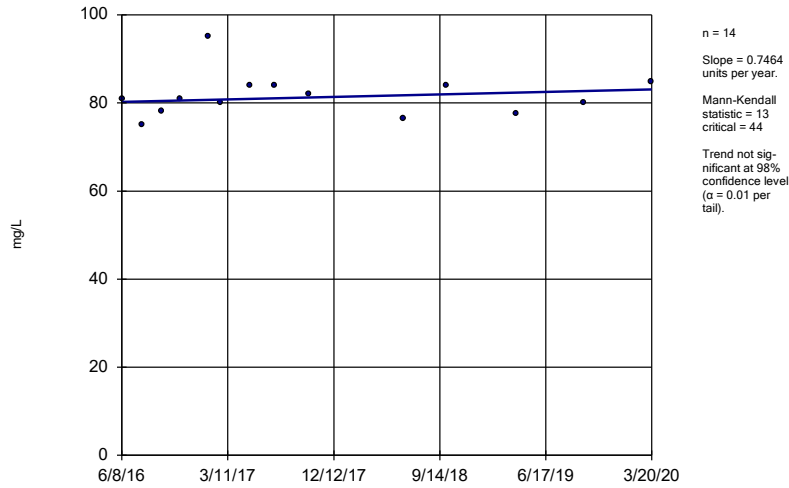
Sen's Slope Estimator

YGWA-3l (bg)



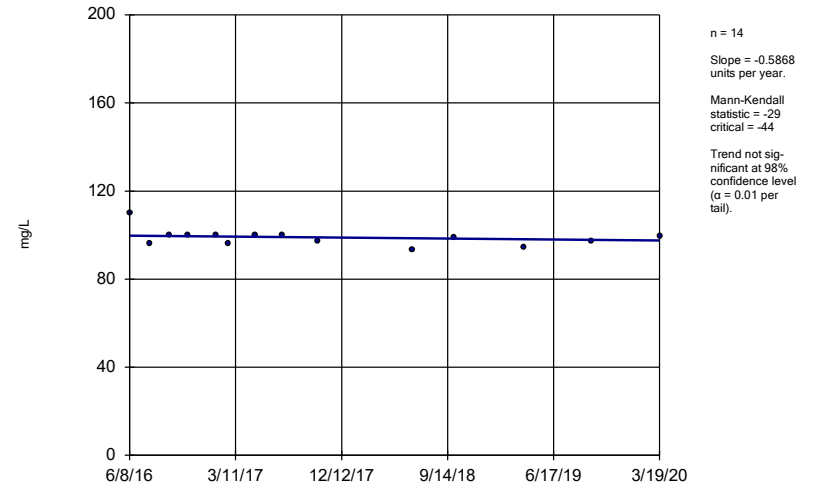
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26I



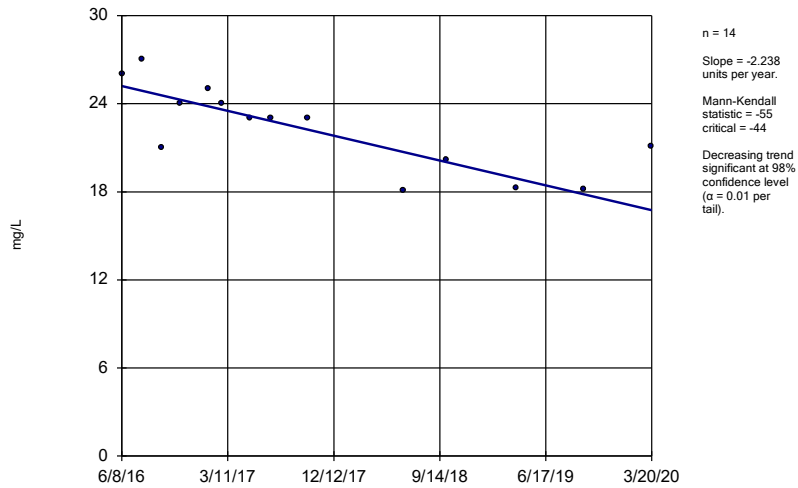
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-26S



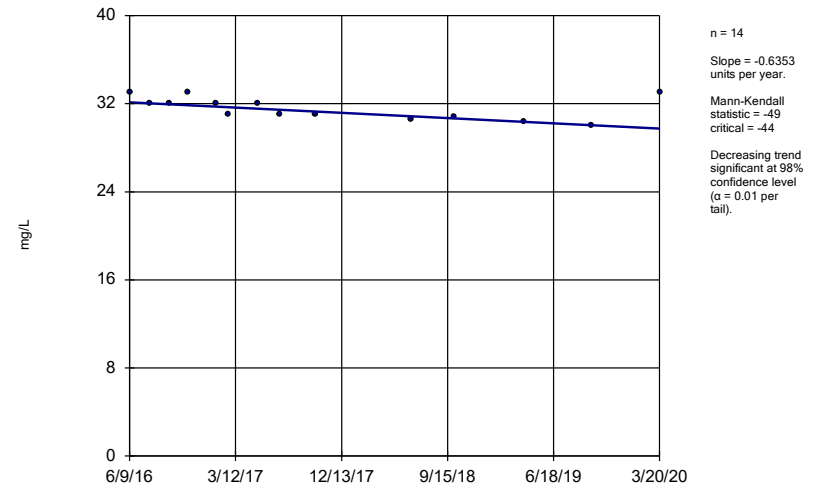
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-27S



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-29I



Constituent: Sulfate Analysis Run 5/12/2020 3:57 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE G.

Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:01 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	n/a	0.0030	n/a	n/a	n/a	n/a	84	n/a	n/a	78.57	n/a	n/a	0.01345	NP Inter(NDs)
Arsenic (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	112	n/a	n/a	68.75	n/a	n/a	0.003199	NP Inter(NDs)
Barium (mg/L)	n/a	0.012	n/a	n/a	n/a	n/a	112	n/a	n/a	6.25	n/a	n/a	0.003199	NP Inter(normality)
Beryllium (mg/L)	n/a	0.0030	n/a	n/a	n/a	n/a	98	n/a	n/a	86.73	n/a	n/a	0.00656	NP Inter(NDs)
Cadmium (mg/L)	n/a	0.0025	n/a	n/a	n/a	n/a	98	n/a	n/a	95.92	n/a	n/a	0.00656	NP Inter(NDs)
Chromium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	98	n/a	n/a	81.63	n/a	n/a	0.00656	NP Inter(NDs)
Cobalt (mg/L)	n/a	0.035	n/a	n/a	n/a	n/a	112	n/a	n/a	73.21	n/a	n/a	0.003199	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	n/a	4.1	n/a	n/a	n/a	n/a	112	0.9571	0.3376	0	None	x^(1/3)	0.05	Inter
Fluoride (mg/L)	n/a	0.68	n/a	n/a	n/a	n/a	119	n/a	n/a	52.94	n/a	n/a	0.002234	NP Inter(NDs)
Lead (mg/L)	n/a	0.0050	n/a	n/a	n/a	n/a	84	n/a	n/a	86.9	n/a	n/a	0.01345	NP Inter(NDs)
Lithium (mg/L)	n/a	0.030	n/a	n/a	n/a	n/a	112	n/a	n/a	26.79	n/a	n/a	0.003199	NP Inter(normality)
Mercury (mg/L)	n/a	0.00050	n/a	n/a	n/a	n/a	91	n/a	n/a	89.01	n/a	n/a	0.009394	NP Inter(NDs)
Molybdenum (mg/L)	n/a	0.014	n/a	n/a	n/a	n/a	112	n/a	n/a	28.57	n/a	n/a	0.003199	NP Inter(normality)
Selenium (mg/L)	n/a	0.010	n/a	n/a	n/a	n/a	98	n/a	n/a	94.9	n/a	n/a	0.00656	NP Inter(NDs)
Thallium (mg/L)	n/a	0.0010	n/a	n/a	n/a	n/a	84	n/a	n/a	96.43	n/a	n/a	0.01345	NP Inter(NDs)

FIGURE H.

YATES ASH POND 2 GWPS - FEDERAL				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.012	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		4.1	5
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.015
Lithium, Total (mg/L)	n/a	0.04	0.03	0.04
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.014	0.1
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates ACL is higher than MCL or CCR Rule- specified level

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residual

*GWPS = Groundwater Protection Standard

FIGURE I.

YATES ASH POND 2 GWPS - STATE				
Constituent Name	MCL	CCR Rule-Specified	Background Limit	GWPS
Antimony, Total (mg/L)	0.006		0.003	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01
Barium, Total (mg/L)	2		0.012	2
Beryllium, Total (mg/L)	0.004		0.003	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1
Cobalt, Total (mg/L)	n/a	0.006	0.035	0.035
Combined Radium, Total (pCi/L)	5		4.1	5
Fluoride, Total (mg/L)	4		0.68	4
Lead, Total (mg/L)	n/a	0.015	0.005	0.005
Lithium, Total (mg/L)	n/a	0.04	0.03	0.03
Mercury, Total (mg/L)	0.002		0.0005	0.002
Molybdenum, Total (mg/L)	n/a	0.1	0.014	0.014
Selenium, Total (mg/L)	0.05		0.01	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002

*Grey cell indicates ACL is higher than MCL or CCR Rule- specified level

*MCL = Maximum Contaminant Level

*CCR = Coal Combustion Residual

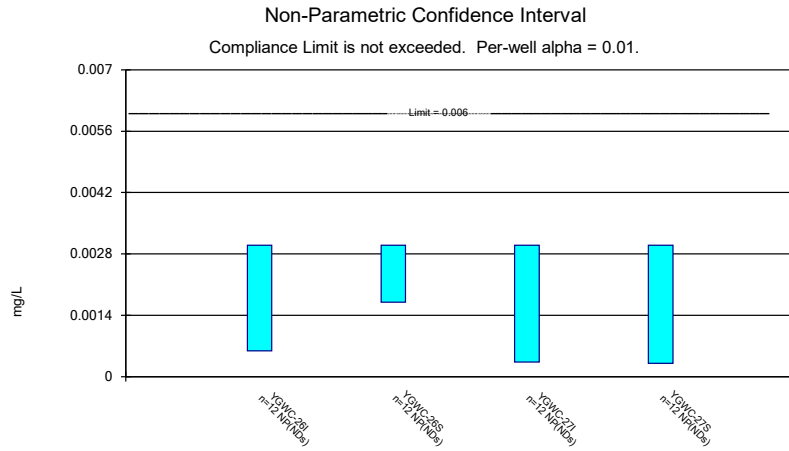
*GWPS = Groundwater Protection Standard

FIGURE J.

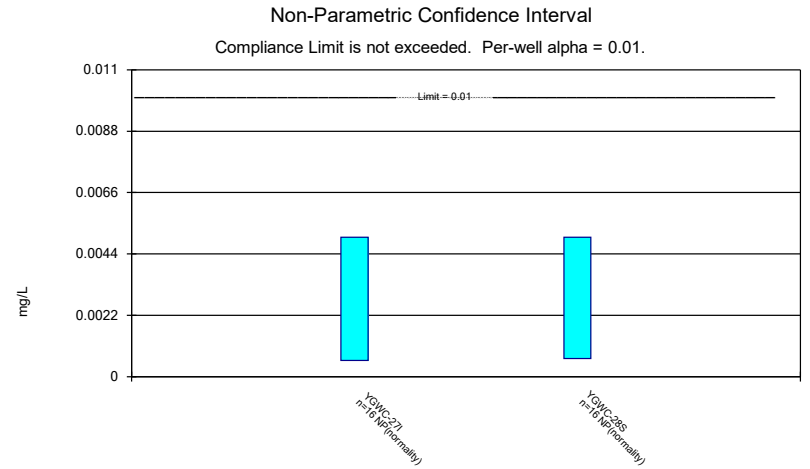
Federal Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:10 PM

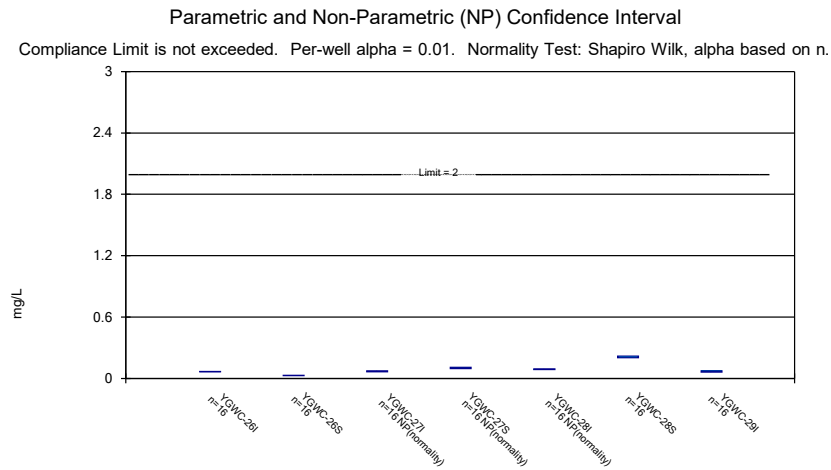
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.00059	0.006	No	12	0.002593	0.0009518	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	12	0.002775	0.0005259	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	12	0.002778	0.0007708	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	12	0.002775	0.0007794	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00058	0.01	No	16	0.00284	0.002236	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-28S	0.005	0.00065	0.01	No	16	0.002844	0.002228	50	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-26I	0.06702	0.06349	2	No	16	0.06526	0.002713	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02866	0.02645	2	No	16	0.02756	0.0017	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	16	0.06765	0.006649	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.108	0.096	2	No	16	0.1018	0.007225	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28I	0.0915	0.0862	2	No	16	0.08876	0.003645	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28S	0.2177	0.2027	2	No	16	0.2102	0.01155	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0732	0.06226	2	No	16	0.06773	0.008408	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-26S	0.003	0.00011	0.004	No	14	0.000565	0.001032	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.0001	0.004	No	14	0.0007907	0.001198	21.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28I	0.00055	0.00009	0.005	No	14	0.0003343	0.0004118	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-29I	0.00026	0.0001	0.005	No	14	0.0003371	0.0003901	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No	14	0.006294	0.004571	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002761	0.001323	0.1	No	14	0.003943	0.003491	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0005	0.1	No	14	0.009679	0.002959	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No	14	0.007958	0.004058	78.57	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0005	0.1	No	14	0.008642	0.003452	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No	14	0.009321	0.002539	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002891	0.001983	0.035	No	16	0.0025	0.0008446	6.25	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0495	0.0017	0.035	No	16	0.02107	0.02867	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	16	0.002544	0.0006723	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	16	0.004714	0.001145	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00085	0.035	No	16	0.001263	0.001007	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0006	0.035	No	16	0.003882	0.002	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.231	0.4873	5	No	15	0.8594	0.5491	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9282	0.5491	5	No	16	0.7387	0.2913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.272	2.921	5	No	16	3.596	1.038	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.087	0.6697	5	No	16	0.8785	0.3209	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.245	5	No	16	0.6106	0.348	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9165	0.4416	5	No	16	0.6791	0.365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.199	0.6989	5	No	16	0.9488	0.384	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.3	0.071	4	No	17	0.1822	0.1152	47.06	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.35	0.24	4	No	17	0.2685	0.1021	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.086	4	No	17	0.2394	0.09945	70.59	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2457	0.1134	4	No	17	0.2113	0.1111	17.65	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.3	0.08	4	No	17	0.1956	0.1074	29.41	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.3044	0.1886	4	No	17	0.2465	0.09239	11.76	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.3	0.059	4	No	17	0.1693	0.1149	41.18	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.005	0.000059	0.015	No	12	0.004588	0.001426	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.005	0.0001	0.015	No	12	0.004182	0.001911	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.005	0.000085	0.015	No	12	0.003779	0.002209	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.005	0.00007	0.015	No	12	0.003767	0.002231	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007022	0.006453	0.04	No	16	0.006738	0.000438	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01085	0.008414	0.04	No	16	0.009631	0.001871	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28I	0.007106	0.006657	0.04	No	16	0.006881	0.0003449	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-29I	0.006631	0.005481	0.04	No	16	0.006056	0.0008839	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.1	No	16	0.006756	0.004328	62.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.1	No	16	0.006206	0.004443	56.25	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28S	0.01	0.0007	0.1	No	16	0.008831	0.003194	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0023	0.0017	0.05	No	14	0.003071	0.002941	14.29	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0012	0.05	No	14	0.00745	0.004192	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No	14	0.009371	0.002352	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No	14	0.009357	0.002405	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	12	0.0008427	0.0003675	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	12	0.0005525	0.0004674	50	None	No	0.01	NP (normality)



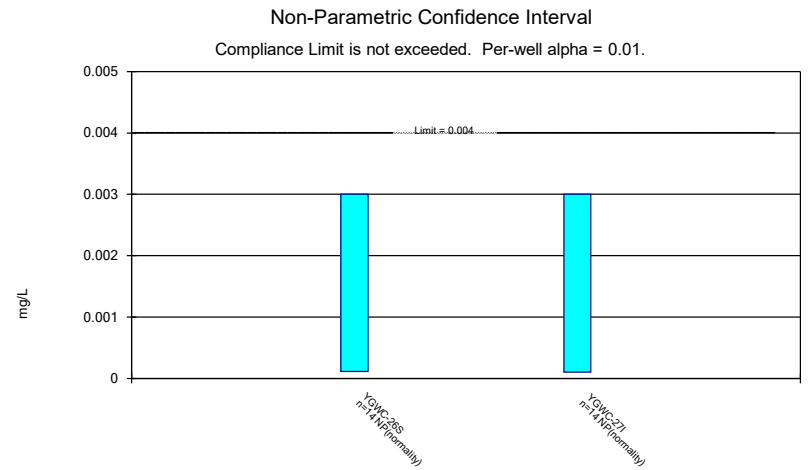
Constituent: Antimony Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



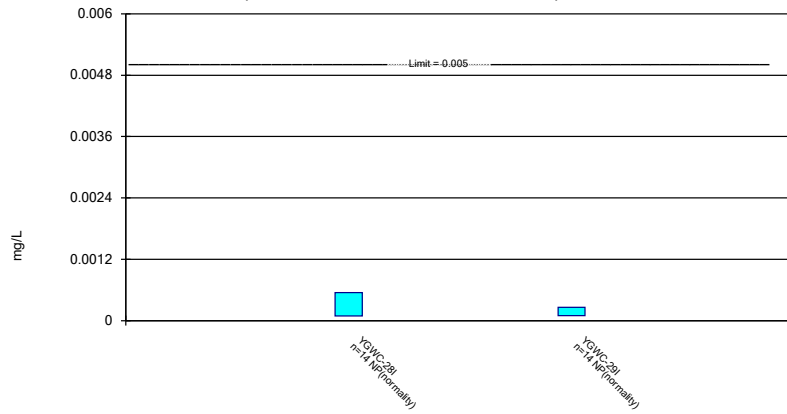
Constituent: Barium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

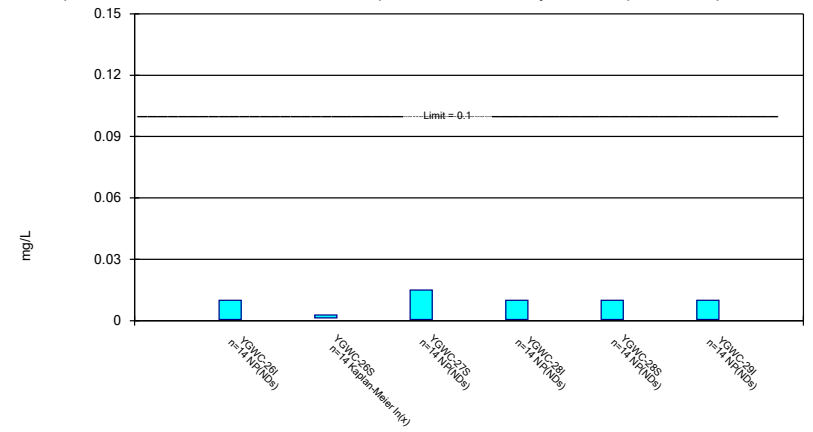
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Constituent: Cadmium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

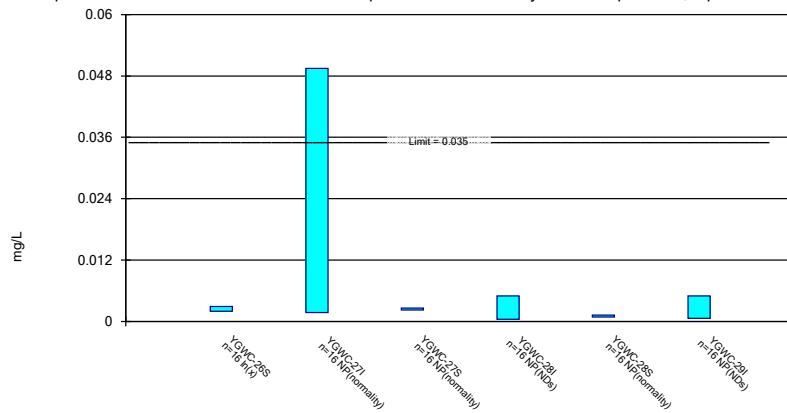
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Constituent: Chromium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

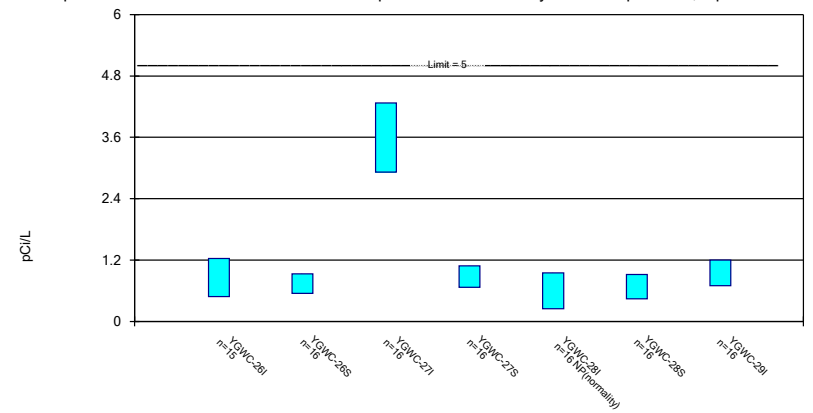
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

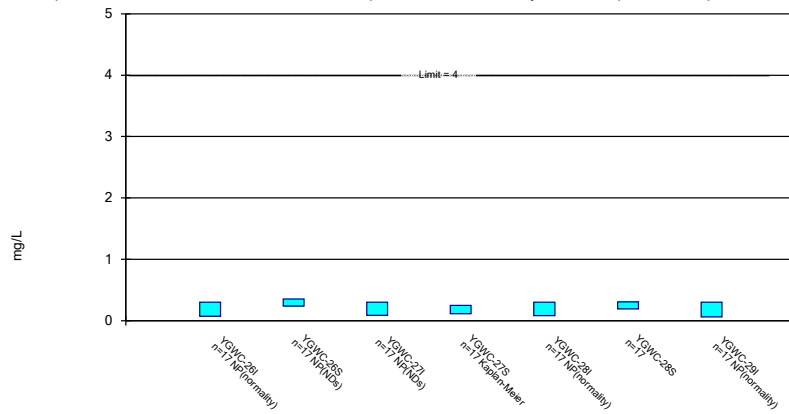
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Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

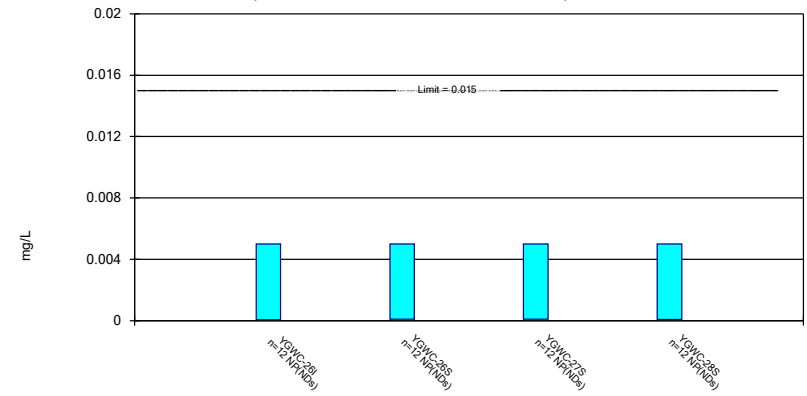
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

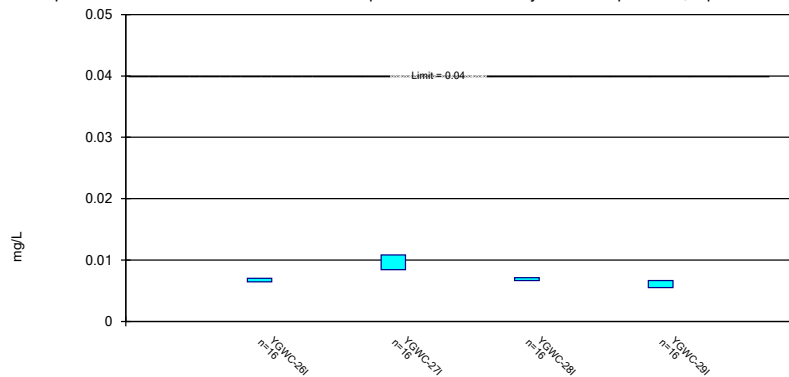
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

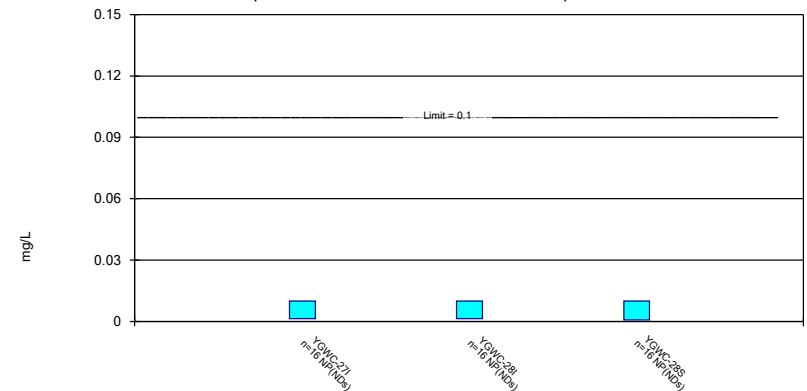
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

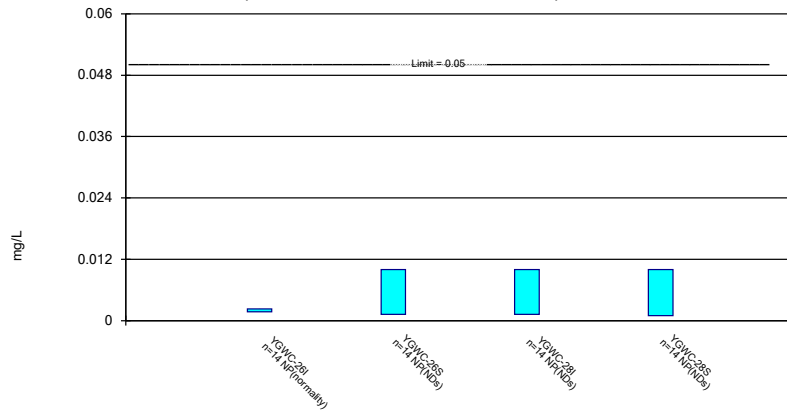
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/12/2020 4:09 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

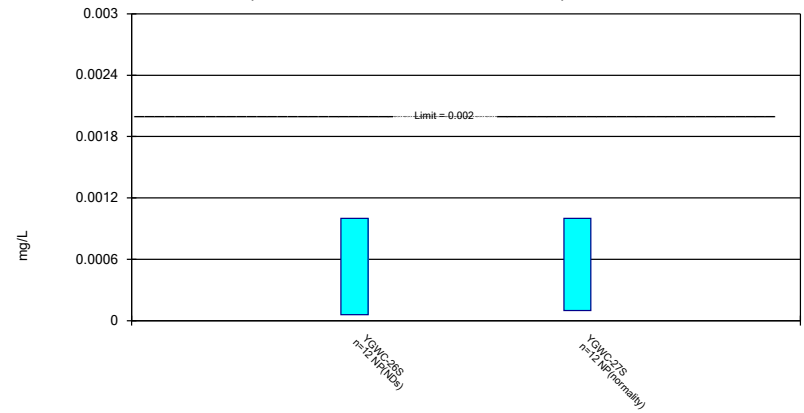
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 5/12/2020 4:09 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.



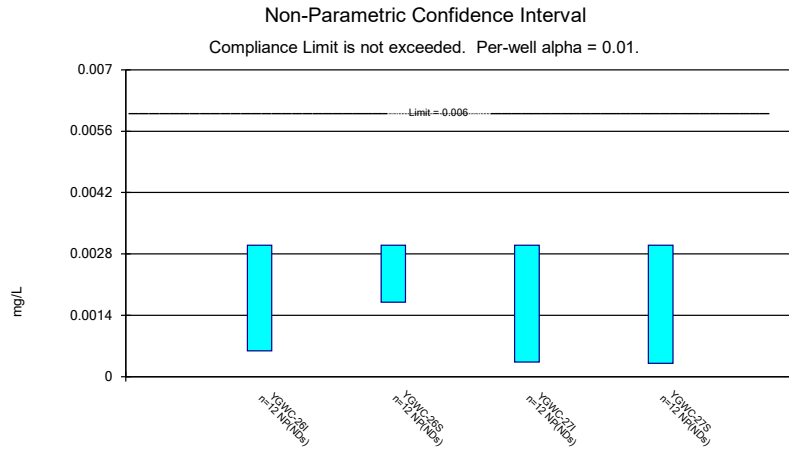
Constituent: Thallium Analysis Run 5/12/2020 4:09 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE K.

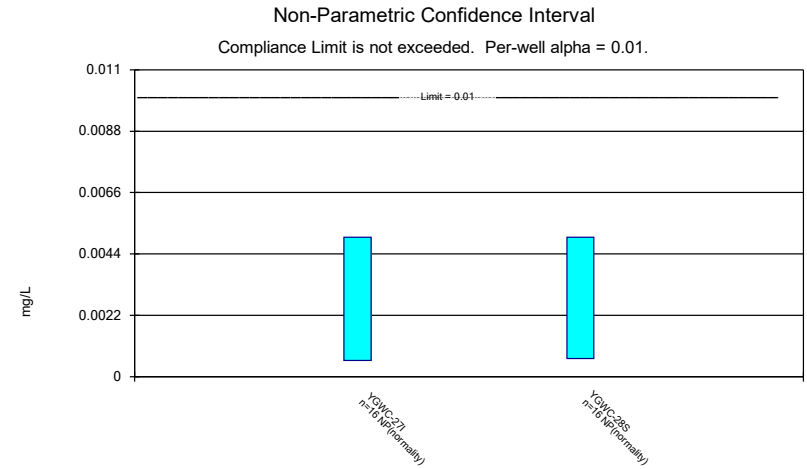
State Confidence Intervals - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/12/2020, 4:07 PM

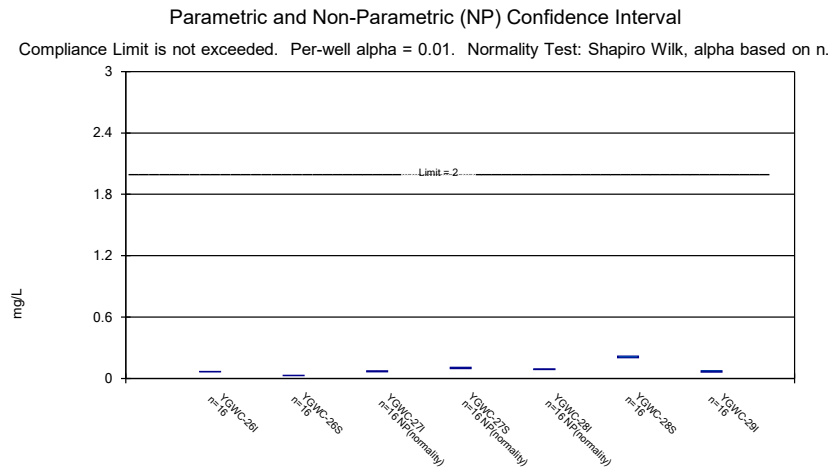
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.00059	0.006	No	12	0.002593	0.0009518	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No	12	0.002775	0.0005259	83.33	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No	12	0.002778	0.0007708	91.67	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No	12	0.002775	0.0007794	91.67	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00058	0.01	No	16	0.00284	0.002236	50	None	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-28S	0.005	0.00065	0.01	No	16	0.002844	0.002228	50	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-26I	0.06702	0.06349	2	No	16	0.06526	0.002713	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02866	0.02645	2	No	16	0.02756	0.0017	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	16	0.06765	0.006649	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.108	0.096	2	No	16	0.1018	0.007225	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28I	0.0915	0.0862	2	No	16	0.08876	0.003645	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28S	0.2177	0.2027	2	No	16	0.2102	0.01155	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.0732	0.06226	2	No	16	0.06773	0.008408	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-26S	0.003	0.00011	0.004	No	14	0.000565	0.001032	14.29	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.0001	0.004	No	14	0.0007907	0.001198	21.43	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28I	0.00055	0.00009	0.005	No	14	0.0003343	0.0004118	14.29	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-29I	0.00026	0.0001	0.005	No	14	0.0003371	0.0003901	14.29	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No	14	0.006294	0.004571	57.14	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002761	0.001323	0.1	No	14	0.003943	0.003491	21.43	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.0005	0.1	No	14	0.009679	0.002959	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No	14	0.007958	0.004058	78.57	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0005	0.1	No	14	0.008642	0.003452	85.71	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No	14	0.009321	0.002539	92.86	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002891	0.001983	0.035	No	16	0.0025	0.0008446	6.25	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0495	0.0017	0.035	No	16	0.02107	0.02867	0	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No	16	0.002544	0.0006723	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	16	0.004714	0.001145	93.75	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00085	0.035	No	16	0.001263	0.001007	6.25	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0006	0.035	No	16	0.003882	0.002	75	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.231	0.4873	5	No	15	0.8594	0.5491	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9282	0.5491	5	No	16	0.7387	0.2913	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.272	2.921	5	No	16	3.596	1.038	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.087	0.6697	5	No	16	0.8785	0.3209	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.948	0.245	5	No	16	0.6106	0.348	0	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9165	0.4416	5	No	16	0.6791	0.365	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.199	0.6989	5	No	16	0.9488	0.384	0	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.3	0.071	4	No	17	0.1822	0.1152	47.06	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.35	0.24	4	No	17	0.2685	0.1021	64.71	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.3	0.086	4	No	17	0.2394	0.09945	70.59	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2457	0.1134	4	No	17	0.2113	0.1111	17.65	Kaplan-Meier	No	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.3	0.08	4	No	17	0.1956	0.1074	29.41	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.3044	0.1886	4	No	17	0.2465	0.09239	11.76	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.3	0.059	4	No	17	0.1693	0.1149	41.18	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.005	0.000059	0.005	No	12	0.004588	0.001426	91.67	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.005	0.0001	0.005	No	12	0.004182	0.001911	83.33	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.005	0.000085	0.005	No	12	0.003779	0.002209	75	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.005	0.00007	0.005	No	12	0.003767	0.002231	75	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007022	0.006453	0.03	No	16	0.006738	0.000438	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01085	0.008414	0.03	No	16	0.009631	0.001871	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28I	0.007106	0.006657	0.03	No	16	0.006881	0.0003449	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-29I	0.006631	0.005481	0.03	No	16	0.006056	0.0008839	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.014	No	16	0.006756	0.004328	62.5	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.014	No	16	0.006206	0.004443	56.25	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28S	0.01	0.0007	0.014	No	16	0.008831	0.003194	87.5	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0023	0.0017	0.05	No	14	0.003071	0.002941	14.29	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0012	0.05	No	14	0.00745	0.004192	71.43	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No	14	0.009371	0.002352	92.86	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No	14	0.009357	0.002405	92.86	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No	12	0.0008427	0.0003675	83.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No	12	0.0005525	0.0004674	50	None	No	0.01	NP (normality)



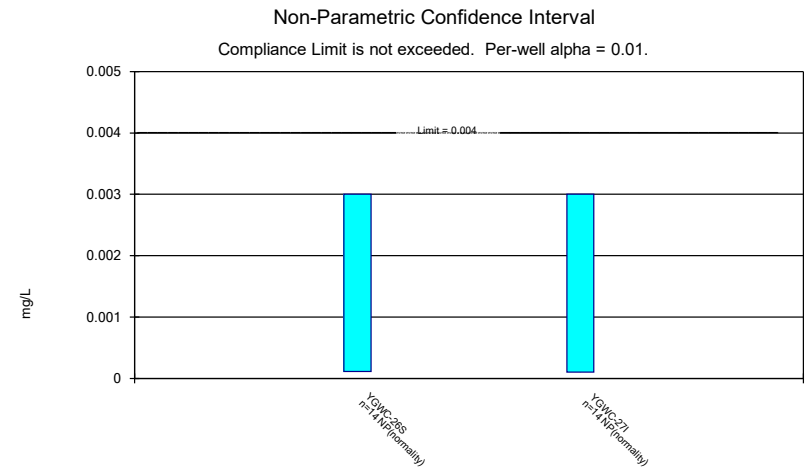
Constituent: Antimony Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



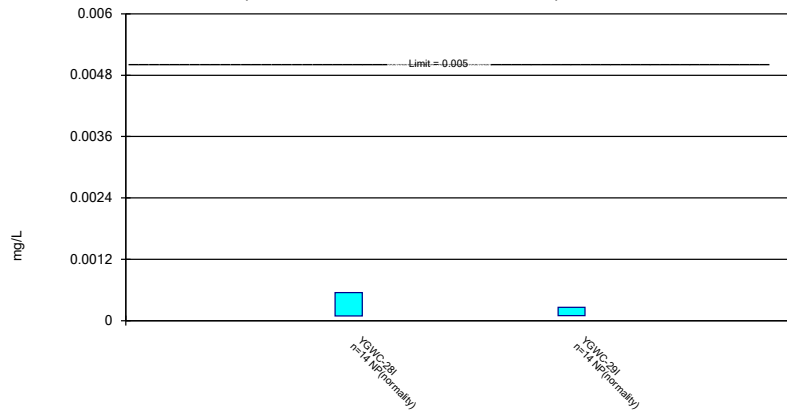
Constituent: Barium Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 5/12/2020 4:06 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

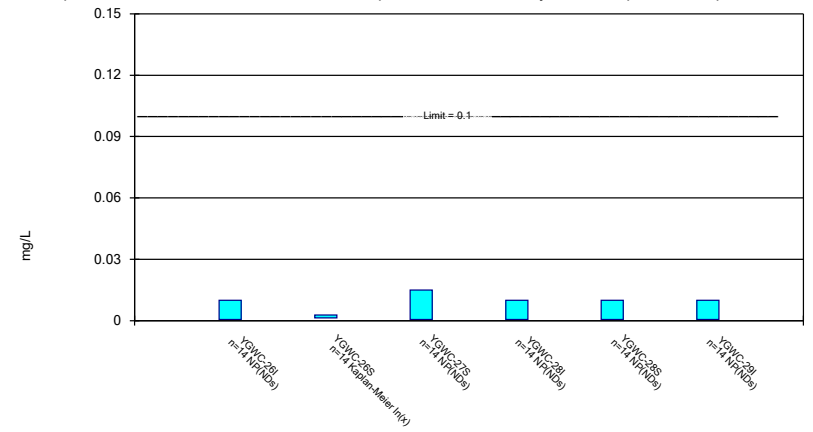
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 5/12/2020 4:06 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

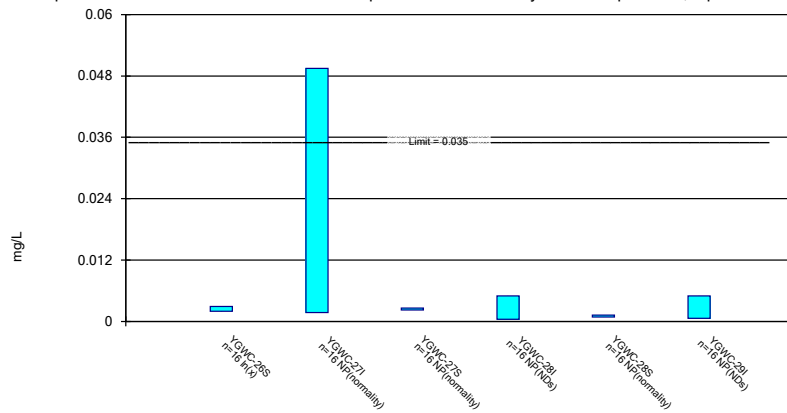
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 5/12/2020 4:06 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

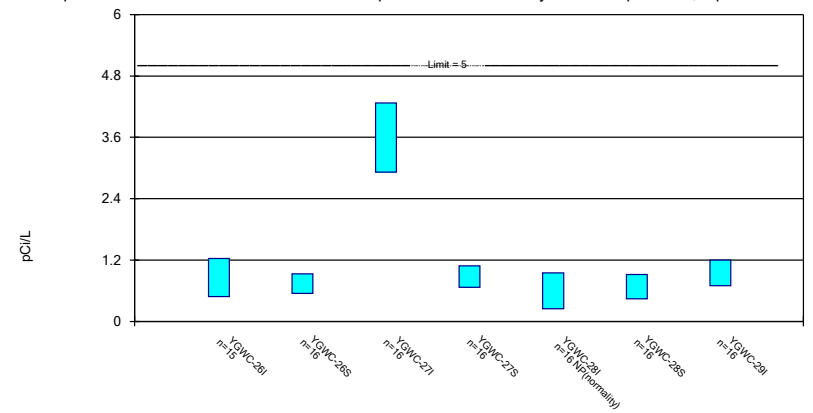
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 5/12/2020 4:06 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

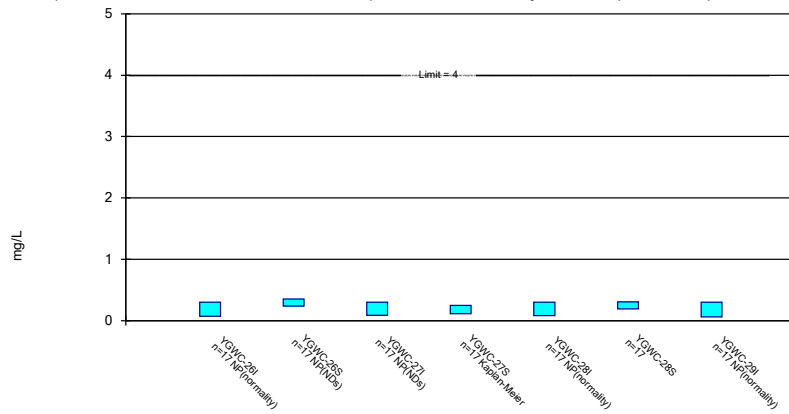
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 5/12/2020 4:07 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

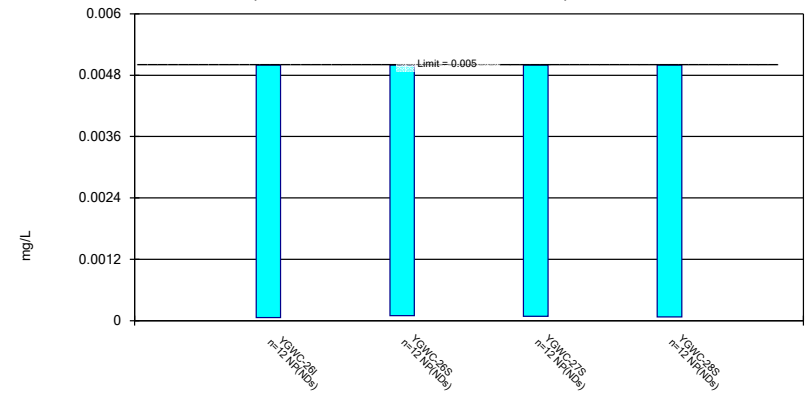
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

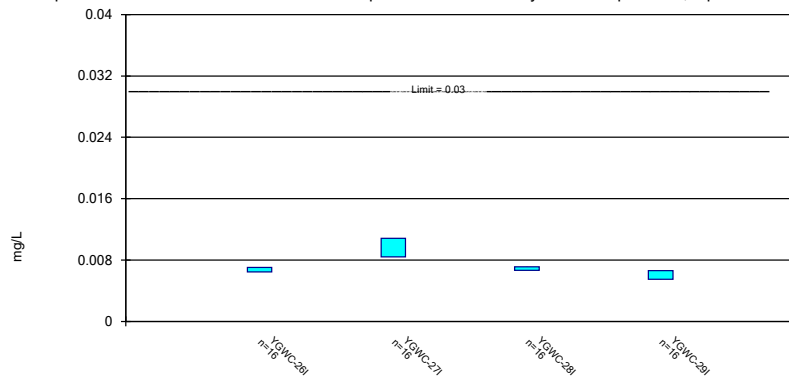
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

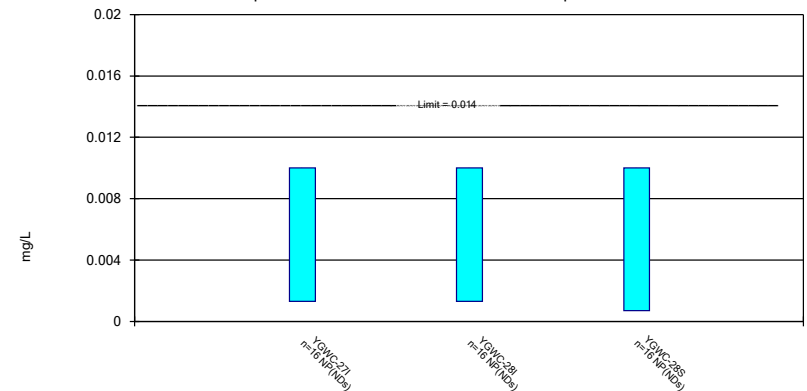
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

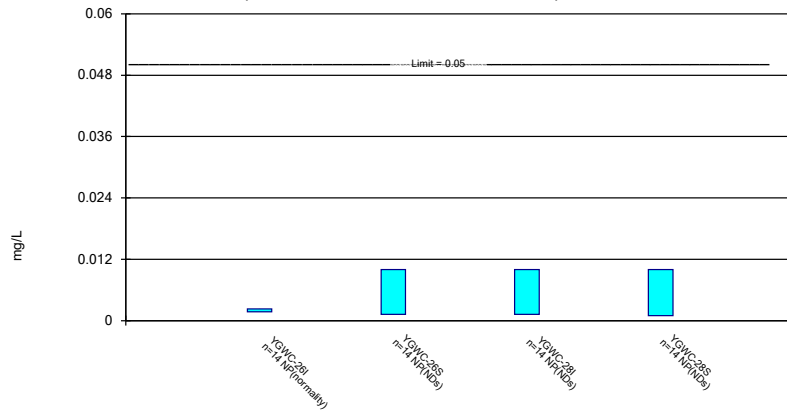
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

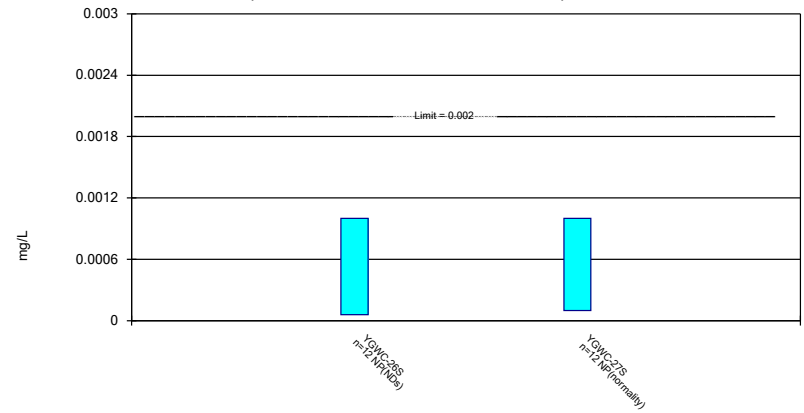
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 5/12/2020 4:07 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.

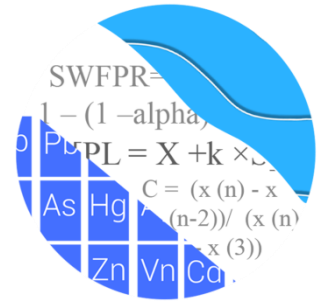


Constituent: Thallium Analysis Run 5/12/2020 4:07 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

September 2020

Semiannual Event

GROUNDWATER STATS CONSULTING



January 27, 2021

Southern Company Services
Attn: Mr. Joju Abraham
241 Ralph McGill Blvd NE, Bin 10160
Atlanta, Georgia 30308-3374

Re: Plant Yates Ash Pond 2 (AP-2)
Statistical Analysis September 2020 2nd Semi-Annual Sample Event

Dear Mr. Abraham,

Groundwater Stats Consulting, formerly the statistical consulting division of Sanitas Technologies, is pleased to provide the September 2020 2nd Semi-Annual Groundwater statistical analysis of groundwater data 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 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-29I

As requested by Georgia EPD, combined upgradient well data from all units at Plant Yates are utilized to construct background limits for Appendix III and IV parameters. All data were sent electronically to Groundwater Stats Consulting, and the statistical analysis was reviewed Kristina Rayner, Groundwater Statistician and Founder of Groundwater Stats Consulting.

The CCR program consists of the constituents listed below. The terms “parameters” and “constituents” are used interchangeably.

- **Appendix III** (Detection Monitoring) - boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- **Appendix IV** (Assessment Monitoring) – antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, combined radium 226 + 228, fluoride, lead, lithium, mercury, molybdenum, selenium, and thallium

Note that when there are no detections present in downgradient wells for a given constituent, statistical analyses are not required. A summary of well/constituent pairs with 100% nondetects follows this letter. Additionally, when Appendix IV constituents are not detected during a scheduled Scan event, no statistical analyses are required during the semi-annual sample event. During the annual Scan event conducted in February 2020, mercury was not detected and was not required to be sampled during the September 2020 event. Since all units at Plant Yates utilize combined upgradient well data from individual units, in some cases upgradient wells at a given unit were not sampled for all constituents if no detections were present at downgradient wells for that particular unit. The following constituents were not detected during their respective Scan event; therefore, upgradient wells at the units listed below were not sampled for that constituent:

- Yates Gypsum Landfill: molybdenum
- Yates AP-1: cadmium, mercury, selenium, and thallium
- Yates AMA-R6: mercury

For all constituents, a substitution of the most recent reporting limit is used for nondetect data. This generally gives the most conservative limit in each case and in the time series plots, a single reporting limit substitution is used across all wells for a given parameter

since the wells are plotted as a group. In 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.

Time series plots for Appendix III and IV parameters at all wells are provided for the purpose of screening data at these wells (Figure A). Additionally, a separate section of box plots is included for all constituents at upgradient and downgradient wells (Figure B). The time series plots are used to initially screen for suspected outliers and trends, while the box plots provide visual representation of variation within individual wells and between all wells. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Summary of Statistical Methods – Appendix III and IV Parameters:

Based on the April 2019 evaluation and state and federal regulatory requirements described below, the following methods were selected for Appendix III and IV constituents:

- Appendix III: Interwell prediction limits, combined with a 1-of-2 resample plan for boron, calcium, chloride, fluoride, pH, sulfate, and TDS
- Appendix IV: Confidence intervals on downgradient well data compared against Ground Water Protections Standards (GWPS) for each Appendix IV constituent

The distribution of data is tested using the Shapiro-Wilk/Shapiro-Francia test for normality. Parametric prediction limits (or tolerance limits or confidence intervals as applicable) are utilized when the screened historical data follow a normal or transformed-normal distribution. When data cannot be normalized or the majority of data are nondetects, a nonparametric test is utilized. While the false positive rate associated with the parametric limits is based on an annual 10% (5% per semi-annual event) as recommended by the EPA Unified Guidance (2009), the false positive rate associated with the nonparametric limits is dependent upon the available background sample size, number of future comparisons, and verification resample plan. The following approaches are used for handling nondetects (USEPA, 2009):

- No statistical analyses are required on wells and analytes containing 100% nondetects (USEPA Unified Guidance, 2009, Chapter 6).
- When data contain <15% nondetects in background, simple substitution of one-half the reporting limit is utilized in the statistical analysis. The reporting limit

utilized for nondetects is the practical quantification limit (PQL) as reported by the laboratory.

- When data contain between 15-50% nondetects, the Kaplan-Meier nondetect adjustment is applied to the background data. This technique adjusts the mean and standard deviation of the historical concentrations to account for concentrations below the reporting limit.
- Nonparametric prediction limits are used on data containing greater than 50% nondetects.

Natural systems continuously evolve due to physical changes made to the environment. Examples include capping a landfill, paving areas near a well, or lining a drainage channel to prevent erosion. Periodic updating of background statistical limits is necessary to accommodate these types of changes. In the interwell case, prediction limits are updated with upgradient well data during each event after careful screening for any new outliers. In some cases, the earlier portion of data are deselected prior to construction of limits to provide sensitive limits that will rapidly detect changes in groundwater quality. Even though the data are excluded from the calculation, the values will continue to be reported and shown in tables and graphs.

Summary of Background Screening – Appendix III and IV Constituents - Conducted in March 2020

Outlier and Trend Testing

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 will be flagged as outliers and deselected. Several low values exist in the data sets and appear on the graphs as possible low outliers relative to the laboratory's Practical Quantitation Limit. However, these values are observed trace values (i.e. measurements reported by the laboratory between the Method Detection Limit and the Practical Quantitation Limit) and, therefore, were not flagged as outliers.

Only one of the outliers identified by Tukey's method 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 nondetects. 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, nondetects were substituted with one half the reporting limit. A summary of outlier results follows this letter (Figure C).

No obvious seasonal patterns were observed on the time series plots for any of the detected data; therefore, no deseasonalizing adjustments were made to the data. When seasonal patterns are observed, data may be deseasonalized so that the resulting limits will correctly account for the seasonality as a predictable pattern rather than random variation or a release.

While trends may be identified by visual inspection, a quantification of the trend and its significance is needed. The Sen's Slope/Mann Kendall 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.

Appendix III – Determination of Spatial Variation

The Analysis of Variance (ANOVA) was used to statistically evaluate differences in average concentrations among upgradient wells, which assists in identifying the most appropriate statistical approach. Interwell tests, which compare downgradient well data to statistical limits constructed from pooled upgradient well data, are appropriate when average concentrations are similar across upgradient wells. Intrawell tests, which compare compliance data from a single well to screened historical data within the same well, are appropriate when upgradient wells exhibit spatial variation; when statistical limits constructed from upgradient wells would not be conservative from a regulatory perspective; and when downgradient water quality is unimpacted compared to upgradient water quality for the same parameter. While data were further tested for intrawell eligibility during the screening, interwell methods will be used for all Appendix III constituents in accordance with Georgia EPD requirements.

Statistical Analysis of Appendix III Parameters – September 2020

All Appendix III parameters were analyzed using interwell prediction limits. Background (upgradient) well data were re-assessed for potential outliers during this analysis. High values for cobalt at upgradient well GWA-2, 0.20 mg/L and 0.16 mg/L from August and September 2020, were two orders of magnitude higher than the other values for that well and therefore, were flagged as outliers in order to maintain limits that were conservative from a regulatory perspective. However, since two observations were at this level, further study may indicate that the values should not be flagged. A single high pH value in upgradient well YGWA-47 from AP-1 that was originally flagged as an outlier since it was higher than the other measurements within this well. All upgradient samples will be re-screened for outliers during the 2021 1st Semi-Annual report. Values in background which have been flagged as outliers may be seen in a lighter font and as a disconnected symbol on the graphs. A summary of flagged outliers follows this report (Figure C).

Interwell prediction limits, combined with a 1-of-2 resample plan, were constructed using all historical pooled upgradient well data through September 2020 (Figure D). Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent. The most recent sample from each downgradient well is compared

to the background limit to determine whether there are statistically significant increases (SSIs).

In the event of an initial exceedance of compliance well data, the 1-of-2 resample plan allows for collection of one additional sample to determine whether the initial exceedance is confirmed. When a resample confirms the initial exceedance, a statistically significant increase is identified and further research would be required to identify the cause of the exceedance (i.e. impact from the site, natural variation, or an off-site source). If the resample falls within the statistical limit, the initial exceedance is considered to be a false positive result and, therefore, no exceedance is noted and no further action is necessary. If no resample is collected, the original result is considered a confirmed exceedance. 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-29I
- Calcium: YGWC-27S
- Chloride: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, AND YGWC-29I
- TDS: YGWC-28S

When prediction limit exceedances are identified in downgradient wells, data are further evaluated using the Sen's Slope/Mann Kendall trend test to determine whether concentrations are statistically increasing, decreasing, or stable (Figure E). Upgradient wells are included in the trend analyses for all parameters found to exceed their prediction limit in downgradient wells to identify whether similar patterns exist upgradient of the site. Upgradient trends are an indication of natural variability in groundwater unrelated to practices at the site. Both a summary and complete graphical results of the trend tests follow this report. Statistically significant trends were identified for the following downgradient and associated upgradient well/constituent pairs:

Increasing:

- Calcium: YGWA-1D (upgradient), YGWA-21I (upgradient), and GWA-2 (upgradient)
- Chloride: YGWA-17S (upgradient) and YGWA-20S (upgradient)

Decreasing:

- Calcium: YGWA-47 (upgradient) and YGWA-18S (upgradient)
- Chloride: YGWA-5D (upgradient), YGWC-26S, YGWC-27S and YGWC-29I
- TDS: YGWA-47 (upgradient) and YGWA-5D (upgradient)

Statistical Analysis of Appendix IV Parameters – September 2020

For analysis of Appendix IV parameters, confidence intervals for each downgradient well/constituent were compared against corresponding Groundwater Protection Standards (GWPS). GWPS were developed as described below. Well/constituent pairs that have 100% ND or trace values below the reporting limits do not require analysis. Data from all wells for Appendix IV parameters are reassessed for outliers during each analysis. No new values were flagged and a summary of previously flagged outliers follows this report (Figure C).

First, interwell tolerance limits were used to calculate site-specific background limits from all available pooled upgradient well data for Appendix IV constituents (Figure F). Parametric tolerance limits are used when data follow a normal or transformed-normal distribution. When data contained greater than 50% nondetects or did not follow a normal or transformed-normal distribution, non-parametric tolerance limits were used. The background limits were then used when determining the groundwater protection standard (GWPS) under 40 CFR §257.95(h) and Georgia EPD Rule 391-3-4-.10(6)(a).

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

- The maximum contaminant level (MCL) established under §141.62 and §141.66 of this title
- Where an MCL has not been established for a constituent, CCR-rule specified levels have been specified for cobalt (0.006 mg/L), lead (0.015 mg/L), lithium (0.040 mg/L), and molybdenum (0.100 mg/L)
- The respective background level for a constituent when the background level is higher than the MCL or Federal CCR Rule identified GWPS

On July 30, 2018, USEPA revised the Federal CCR rule updating GWPS for cobalt, lead, lithium, and molybdenum as described above in 40 CFR §257.95(h)(2). Georgia EPD has not incorporated the updated GWPS into the current Georgia EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); therefore, for sites regulated under Georgia EPD Rules, the GWPS is:

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

Following the above Georgia EPD Rule requirements, GWPS were established for statistical comparison of Appendix IV constituents for the September 2020 sample event for the federal and state rules (Figure G). To complete the statistical comparison to GWPS, confidence intervals were constructed for each of the Appendix IV constituents using data since 2016 in accordance with the federal and state requirements in each downgradient well (Figures H and I, respectively). The Sanitas software was used to calculate the tolerance limits and the confidence intervals. Those confidence intervals were compared to the GWPS established using the CCR Rules for the federal requirements and the Georgia EPD Rules 391-3-4-.10(6)(a) for the State requirements. Only when the entire confidence interval is above a GWPS is the downgradient well/constituent pair considered to exceed its respective standard. If there is an exceedance of the GWPS, a statistically significant level (SSL) exceedance is identified. Summaries of confidence intervals and complete graphical results follow this letter. For both federal and state confidence intervals, no exceedances were noted.

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
Groundwater Statistician

100% Non-Detects

Analysis Run 11/25/2020 1:18 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Antimony (mg/L)
YGWC-28I, YGWC-28S

Arsenic (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S, YGWC-28I, YGWC-29I

Beryllium (mg/L)
YGWC-26I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Cadmium (mg/L)
YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28S

Chromium (mg/L)
YGWC-27I

Cobalt (mg/L)
YGWC-26I

Lead (mg/L)
YGWC-27I, YGWC-28I

Lithium (mg/L)
YGWC-26S, YGWC-27S, YGWC-28S

Molybdenum (mg/L)
YGWC-26I, YGWC-26S, YGWC-27S, YGWC-29I

Selenium (mg/L)
YGWC-27I, YGWC-27S, YGWC-29I

Thallium (mg/L)
YGWC-26I, YGWC-27I, YGWC-28I, YGWC-28S, YGWC-29I

Appendix III - Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:28 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	9/24/2020	0.76	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	9/24/2020	0.74	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/24/2020	2.3	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/24/2020	1.3	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/24/2020	2.1	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/24/2020	2.6	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/24/2020	0.84	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	9/24/2020	38.6	Yes	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	7.9	n/a	9/24/2020	17.1	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	7.9	n/a	9/24/2020	15.7	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	7.9	n/a	9/24/2020	13.3	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	7.9	n/a	9/24/2020	17	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	7.9	n/a	9/24/2020	15.1	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	7.9	n/a	9/24/2020	18	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	7.9	n/a	9/24/2020	10.9	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	218.6	n/a	9/24/2020	226	Yes	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2

Appendix III - Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:28 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	9/24/2020	0.76	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	9/24/2020	0.74	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/24/2020	2.3	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/24/2020	1.3	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/24/2020	2.1	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/24/2020	2.6	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/24/2020	0.84	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	9/24/2020	16.9	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	9/24/2020	11.3	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	9/24/2020	27.9	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	9/24/2020	38.6	Yes	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	9/24/2020	34.3	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	9/24/2020	30.8	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	9/24/2020	12.4	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	7.9	n/a	9/24/2020	17.1	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	7.9	n/a	9/24/2020	15.7	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	7.9	n/a	9/24/2020	13.3	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	7.9	n/a	9/24/2020	17	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	7.9	n/a	9/24/2020	15.1	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	7.9	n/a	9/24/2020	18	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	7.9	n/a	9/24/2020	10.9	Yes	274	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	9/24/2020	0.053J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	9/24/2020	0.1ND	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	9/24/2020	0.059J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	9/24/2020	0.092J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	9/24/2020	0.073J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	9/24/2020	0.16	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	9/24/2020	0.06J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	7.91	4.86	9/24/2020	5.86	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	7.91	4.86	9/24/2020	5.46	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	7.91	4.86	9/24/2020	6.36	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	7.91	4.86	9/24/2020	6.27	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	7.91	4.86	9/24/2020	6.41	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	7.91	4.86	9/24/2020	6.53	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	7.91	4.86	9/24/2020	6.2	No	339	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	9/24/2020	85.6	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	9/24/2020	92.3	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	9/24/2020	3	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	9/24/2020	16.6	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	9/24/2020	7.2	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	9/24/2020	0.99J	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	9/24/2020	26.2	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	218.6	n/a	9/24/2020	212	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	218.6	n/a	9/24/2020	171	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	218.6	n/a	9/24/2020	186	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	218.6	n/a	9/24/2020	185	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	218.6	n/a	9/24/2020	209	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	218.6	n/a	9/24/2020	226	Yes	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	218.6	n/a	9/24/2020	133	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:44 PM

<u>Constituent</u>	<u>Well</u>	<u>Slope</u>	<u>Calc.</u>	<u>Critical</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Normality</u>	<u>Xform</u>	<u>Alpha</u>	<u>Method</u>
Calcium (mg/L)	YGWA-1D (bg)	0.9112	54	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.267	-48	-38	Yes	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.09147	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-211 (bg)	1.723	59	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.326	50	43	Yes	13	7.692	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.872	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.074	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-29I	-0.6911	-61	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.1906	61	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.225	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9674	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-44	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-16.16	-59	-53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:44 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.002039	-30	-53	No	15	13.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	-0.0002466	-14	-53	No	15	20	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-28	-53	No	15	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-22	-53	No	15	73.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-31	-53	No	15	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-15	-53	No	15	53.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-25	-53	No	15	86.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.02959	-29	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.0102	31	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.05407	18	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	0.011	9	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0.05294	17	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.07989	25	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.009311	-37	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001562	-37	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	-0.0004068	-21	-53	No	15	13.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-38	-53	No	15	73.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0.0005007	-21	-53	No	15	13.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-17	-53	No	15	86.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.006488	-47	-53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.003122	11	38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.02578	-31	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-10	-53	No	15	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0006117	23	53	No	15	13.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.001168	-43	-53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	-1	-43	No	13	53.85	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.0442	-47	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.9112	54	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-11 (bg)	-0.1082	-50	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21 (bg)	0.7549	37	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	-0.01026	-12	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.9217	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6083	28	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-27S	0.4345	14	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.267	-48	-38	Yes	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1212	51	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.02072	8	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.09147	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.1176	52	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.723	59	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.05098	1	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-1.15	-37	-38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.4056	50	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.054	-47	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.08295	38	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.326	50	43	Yes	13	7.692	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1026	20	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-25	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	0	-19	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21 (bg)	-0.04955	-30	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-10	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06957	-46	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05476	-51	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.08575	-18	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.872	-55	-53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:44 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWC-271	0	7	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.074	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-281	-0.2513	-53	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	0	-2	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-291	-0.6911	-61	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.504	-33	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.1906	61	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-181 (bg)	0.06048	32	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2113	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.225	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-211 (bg)	-0.06716	-15	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.02132	1	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2281	23	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-41 (bg)	0.1431	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9674	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-51 (bg)	0	1	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1924	33	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.8555	9	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	3.318	18	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-11 (bg)	-3.416	-17	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21 (bg)	-2.032	-19	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-301 (bg)	3.476	28	53	No	15	13.33	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	4.214	19	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-31 (bg)	2.713	14	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-28S	0	0	53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-44	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	6.577	31	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-181 (bg)	-1.862	-14	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	7.897	34	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	5.975	37	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-211 (bg)	22.56	45	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	12.16	18	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-16.26	-36	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-41 (bg)	4.95	19	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-16.16	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-51 (bg)	0.4969	6	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	21.56	27	43	No	13	0	n/a	n/a	0.01	NP

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/25/2020, 7:48 PM

<u>Constituent</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>Bg Mean</u>	<u>Std. Dev.</u>	<u>%NDs</u>	<u>ND Adj.</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Antimony (mg/L)	0.0047	n/a	n/a	280	n/a	n/a	86.43	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	328	n/a	n/a	77.13	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	328	n/a	n/a	3.354	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.003	n/a	n/a	312	n/a	n/a	83.01	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	313	n/a	n/a	96.17	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	n/a	280	n/a	n/a	77.14	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	326	n/a	n/a	69.63	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	306	n/a	n/a	1.961	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	327	n/a	n/a	68.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.005	n/a	n/a	282	n/a	n/a	85.82	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	307	n/a	n/a	28.34	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0005	n/a	n/a	251	n/a	n/a	92.43	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	272	n/a	n/a	59.56	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	n/a	311	n/a	n/a	91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	281	n/a	n/a	96.44	n/a	n/a	NaN	NP Inter(NDs)

YATES ASH POND 2 GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.003	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.0025	0.005	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.9	6.9	6.9
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.005	0.015	0.005
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0005	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.01	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

**GWPS = Groundwater Protection Standard*

Federal Confidence Intervals Summary - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/25/2020, 1:20 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	0.00059	0.006	No 13	0.002624	0.0009183	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No 13	0.002792	0.0005074	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No 13	0.002795	0.0007405	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No 13	0.002792	0.0007488	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No 13	0.002869	0.0004715	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00058	0.01	No 17	0.002967	0.002227	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No 17	0.002971	0.00222	52.94	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06681	0.06285	2	No 17	0.06483	0.003162	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02851	0.0263	2	No 17	0.02741	0.001759	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0721	0.063	2	No 17	0.06773	0.006446	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1059	0.09603	2	No 17	0.101	0.007866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09076	0.0855	2	No 17	0.08818	0.004249	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2168	0.2	2	No 17	0.2084	0.01337	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.07244	0.06164	2	No 17	0.06704	0.008624	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-26S	0.003	0.0001	0.004	No 15	0.000533	0.001002	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.00019	0.004	No 15	0.0007507	0.001165	20	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28I	0.00055	0.00009	0.005	No 15	0.00033	0.0003972	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-29I	0.00033	0.0001	0.005	No 15	0.0003367	0.0003759	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No 15	0.005919	0.004638	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002584	0.00115	0.1	No 15	0.003725	0.003468	20	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.00057	0.1	No 15	0.009071	0.003696	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No 15	0.008094	0.003946	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0006	0.1	No 15	0.008106	0.003921	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No 15	0.009367	0.002453	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002892	0.001865	0.035	No 17	0.002418	0.0008855	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01979	0.003135	0.035	No 17	0.02028	0.02795	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No 17	0.002518	0.0006598	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No 17	0.004731	0.001111	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00085	0.035	No 17	0.001239	0.0009802	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No 17	0.003948	0.001956	76.47	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.21	0.519	6.9	No 16	0.8644	0.5309	6.25	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9299	0.5711	6.9	No 17	0.7505	0.2863	5.882	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.216	2.956	6.9	No 17	3.586	1.006	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.13	0.6987	6.9	No 17	0.9145	0.3443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.947	0.261	6.9	No 17	0.63	0.3463	5.882	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9194	0.4695	6.9	No 17	0.6944	0.359	5.882	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.181	0.7153	6.9	No 17	0.9482	0.3718	5.882	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No 18	0.08611	0.01887	44.44	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No 18	0.1369	0.1043	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.086	4	No 18	0.09606	0.02432	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2221	0.1076	4	No 18	0.1713	0.1076	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.08	4	No 18	0.1333	0.08429	27.78	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2796	0.1593	4	No 18	0.2194	0.09944	11.11	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.1	0.059	4	No 18	0.08544	0.02493	38.89	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.005	0.000059	0.015	No 13	0.00462	0.00137	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.005	0.00008	0.015	No 13	0.003865	0.002157	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.005	0.000085	0.015	No 13	0.003517	0.002317	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.005	0.000063	0.015	No 13	0.003482	0.00237	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.005	0.000095	0.015	No 13	0.004623	0.00136	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007061	0.006492	0.04	No 17	0.006776	0.0004535	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01069	0.008326	0.04	No 17	0.009506	0.001884	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28I	0.007076	0.006642	0.04	No 17	0.006859	0.0003465	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-29I	0.006554	0.005434	0.04	No 17	0.005994	0.0008934	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.1	No 17	0.006447	0.00438	58.82	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.1	No 17	0.005912	0.00447	52.94	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00075	0.1	No 17	0.008356	0.003661	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0017	0.05	No 15	0.003073	0.002834	13.33	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0014	0.05	No 15	0.00762	0.004093	73.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No 15	0.009413	0.002272	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No 15	0.0094	0.002324	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No 13	0.0008548	0.0003545	84.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No 13	0.0005869	0.0004644	53.85	None	No	0.01	NP (NDs)

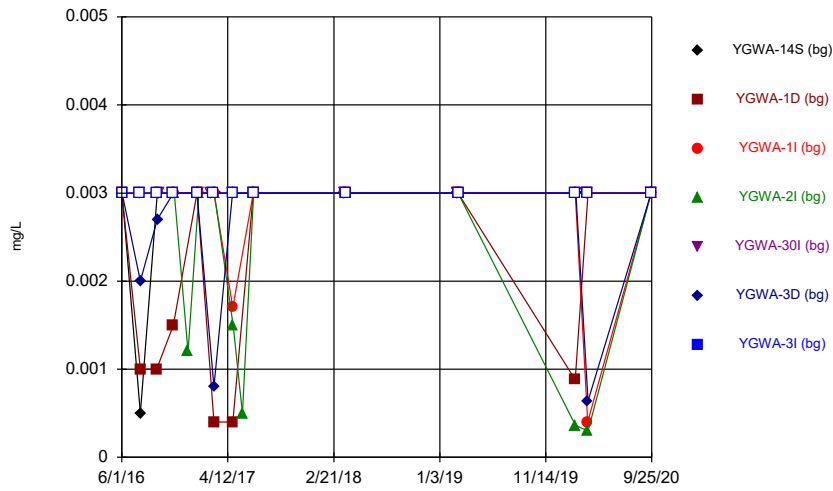
State Confidence Intervals Summary - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/25/2020, 1:23 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	0.00059	0.006	No 13	0.002624	0.0009183	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No 13	0.002792	0.0005074	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No 13	0.002795	0.0007405	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No 13	0.002792	0.0007488	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No 13	0.002869	0.0004715	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00058	0.01	No 17	0.002967	0.002227	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No 17	0.002971	0.00222	52.94	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06681	0.06285	2	No 17	0.06483	0.003162	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02851	0.0263	2	No 17	0.02741	0.001759	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0721	0.063	2	No 17	0.06773	0.006446	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1059	0.09603	2	No 17	0.101	0.007866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09076	0.0855	2	No 17	0.08818	0.004249	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2168	0.2	2	No 17	0.2084	0.01337	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.07244	0.06164	2	No 17	0.06704	0.008624	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-26S	0.003	0.0001	0.004	No 15	0.000533	0.001002	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.00019	0.004	No 15	0.0007507	0.001165	20	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28I	0.00055	0.00009	0.005	No 15	0.00033	0.0003972	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-29I	0.00033	0.0001	0.005	No 15	0.0003367	0.0003759	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No 15	0.005919	0.004638	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002584	0.00115	0.1	No 15	0.003725	0.003468	20	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.00057	0.1	No 15	0.009071	0.003696	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No 15	0.008094	0.003946	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0006	0.1	No 15	0.008106	0.003921	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No 15	0.009367	0.002453	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002892	0.001865	0.035	No 17	0.002418	0.0008855	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01979	0.003135	0.035	No 17	0.02028	0.02795	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No 17	0.002518	0.0006598	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No 17	0.004731	0.001111	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00085	0.035	No 17	0.001239	0.0009802	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No 17	0.003948	0.001956	76.47	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.21	0.519	6.9	No 16	0.8644	0.5309	6.25	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9299	0.5711	6.9	No 17	0.7505	0.2863	5.882	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.216	2.956	6.9	No 17	3.586	1.006	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.13	0.6987	6.9	No 17	0.9145	0.3443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.947	0.261	6.9	No 17	0.63	0.3463	5.882	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9194	0.4695	6.9	No 17	0.6944	0.359	5.882	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.181	0.7153	6.9	No 17	0.9482	0.3718	5.882	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No 18	0.08611	0.01887	44.44	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No 18	0.1369	0.1043	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.086	4	No 18	0.09606	0.02432	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2221	0.1076	4	No 18	0.1713	0.1076	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.08	4	No 18	0.1333	0.08429	27.78	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2796	0.1593	4	No 18	0.2194	0.09944	11.11	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.1	0.059	4	No 18	0.08544	0.02493	38.89	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.005	0.000059	0.005	No 13	0.00462	0.00137	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.005	0.00008	0.005	No 13	0.003865	0.002157	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.005	0.000085	0.005	No 13	0.003517	0.002317	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.005	0.000063	0.005	No 13	0.003482	0.00237	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.005	0.000095	0.005	No 13	0.004623	0.00136	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007061	0.006492	0.03	No 17	0.006776	0.0004535	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01069	0.008326	0.03	No 17	0.009506	0.001884	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28I	0.007076	0.006642	0.03	No 17	0.006859	0.0003465	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-29I	0.006554	0.005434	0.03	No 17	0.005994	0.0008934	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.014	No 17	0.006447	0.00438	58.82	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.014	No 17	0.005912	0.00447	52.94	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00075	0.014	No 17	0.008356	0.003661	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0017	0.05	No 15	0.003073	0.002834	13.33	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0014	0.05	No 15	0.00762	0.004093	73.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No 15	0.009413	0.002272	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No 15	0.0094	0.002324	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No 13	0.0008548	0.0003545	84.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No 13	0.0005869	0.0004644	53.85	None	No	0.01	NP (NDs)

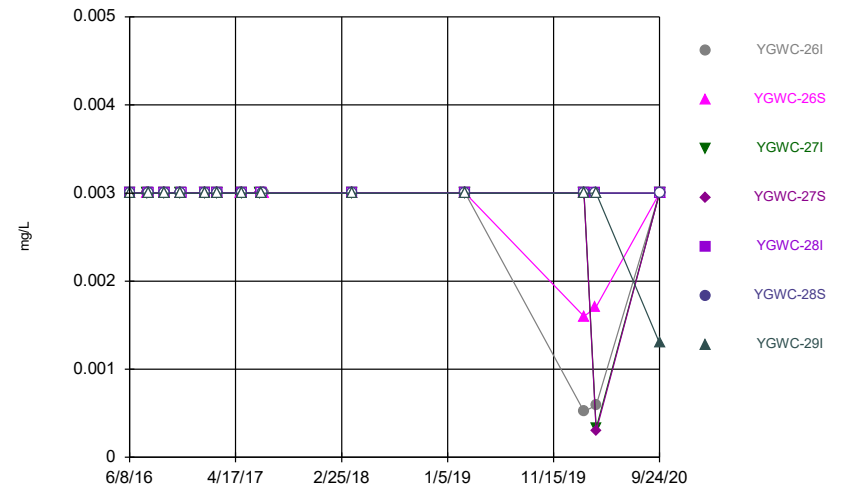
FIGURE A.

Time Series



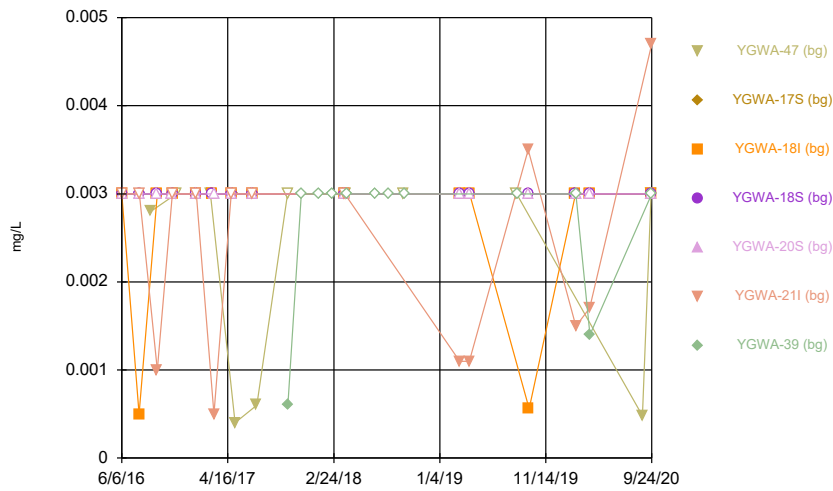
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



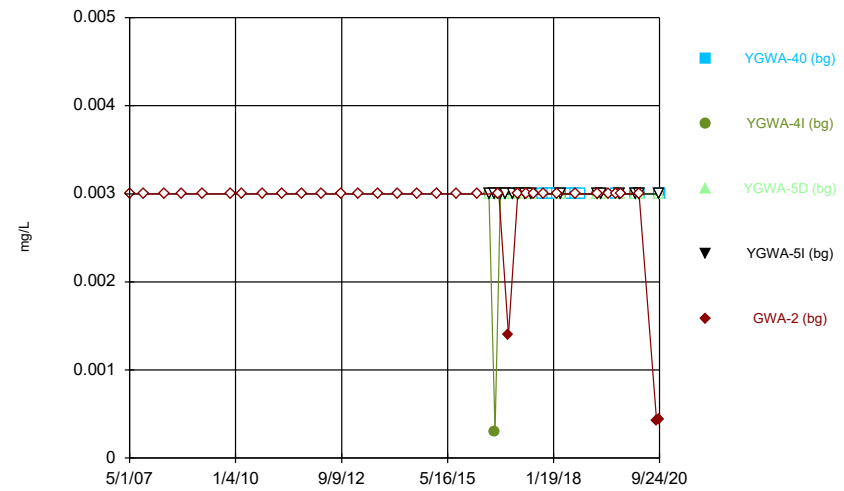
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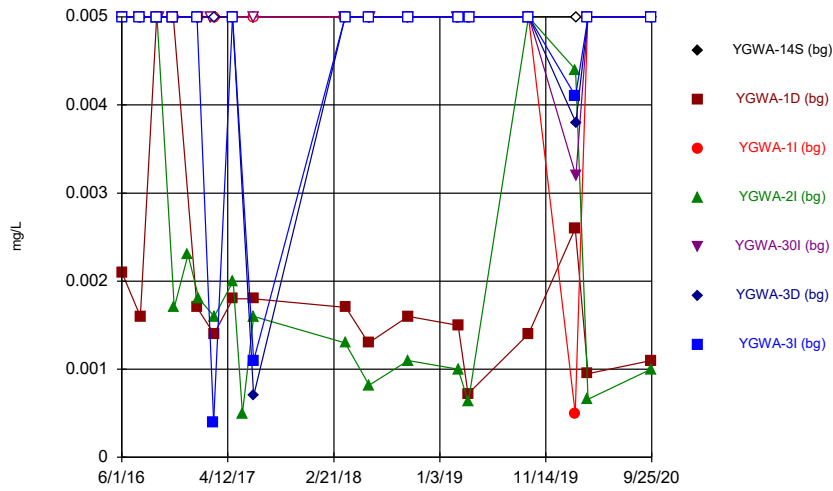
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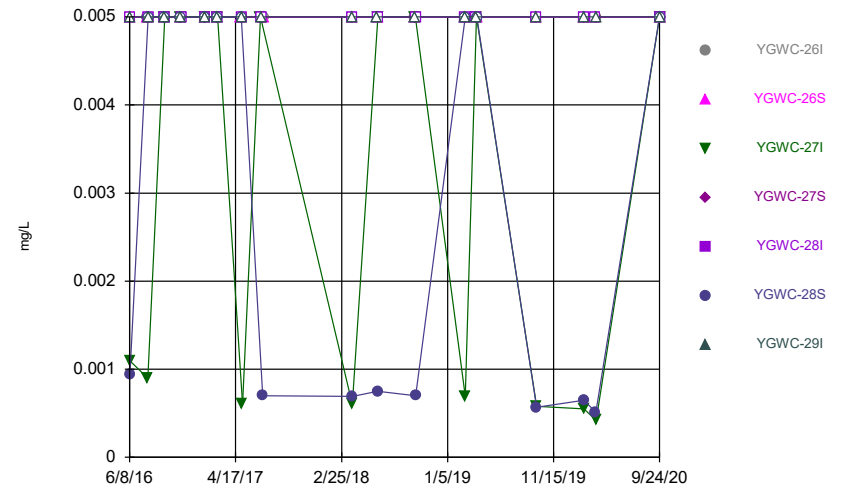
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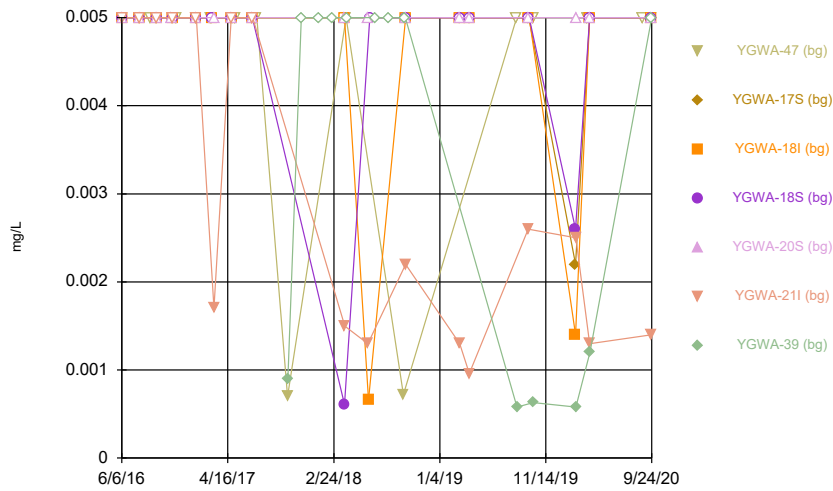
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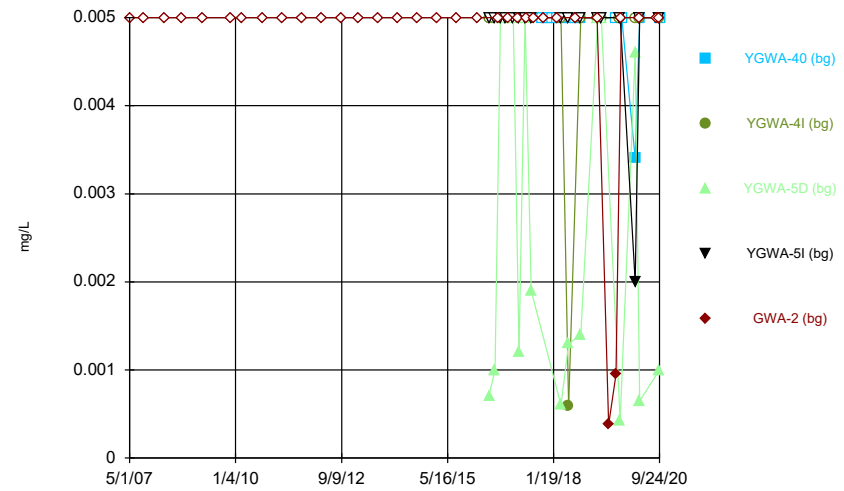
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Time Series



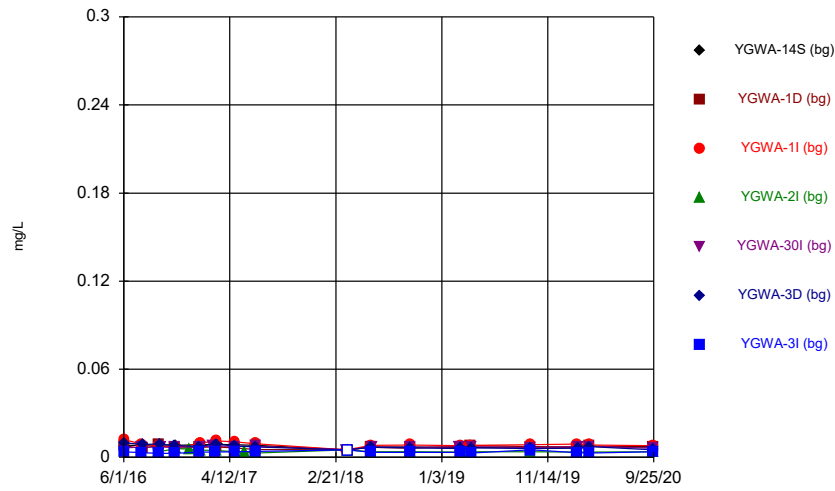
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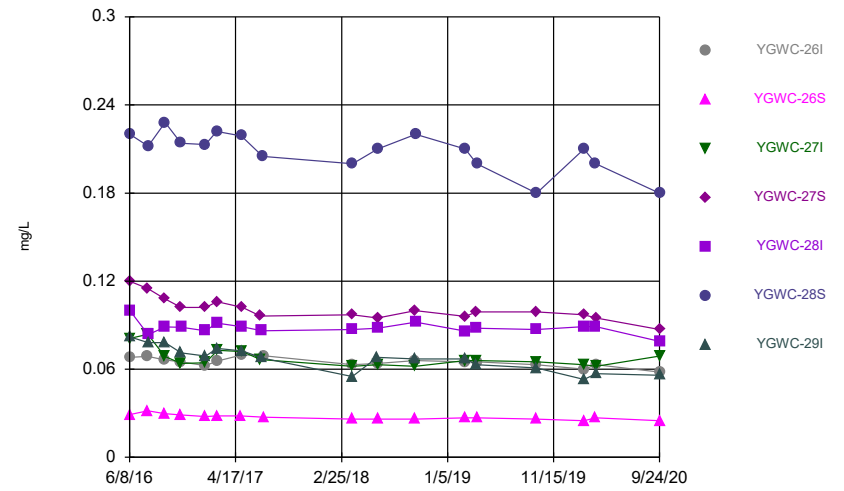
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Time Series



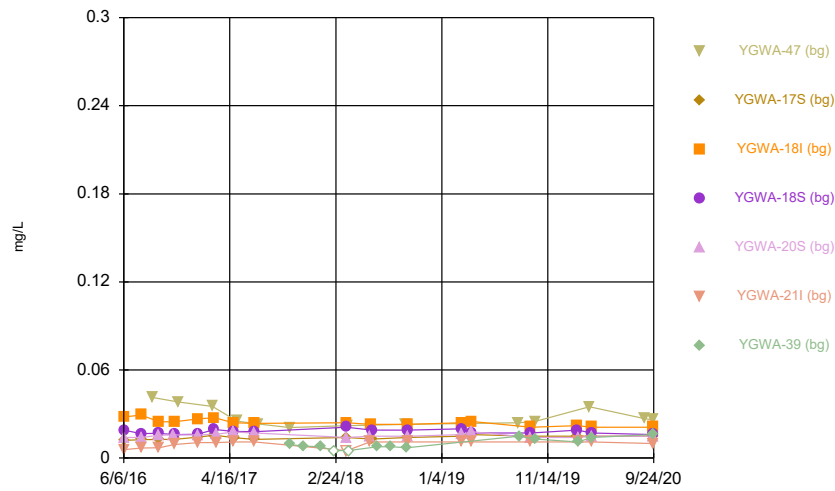
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



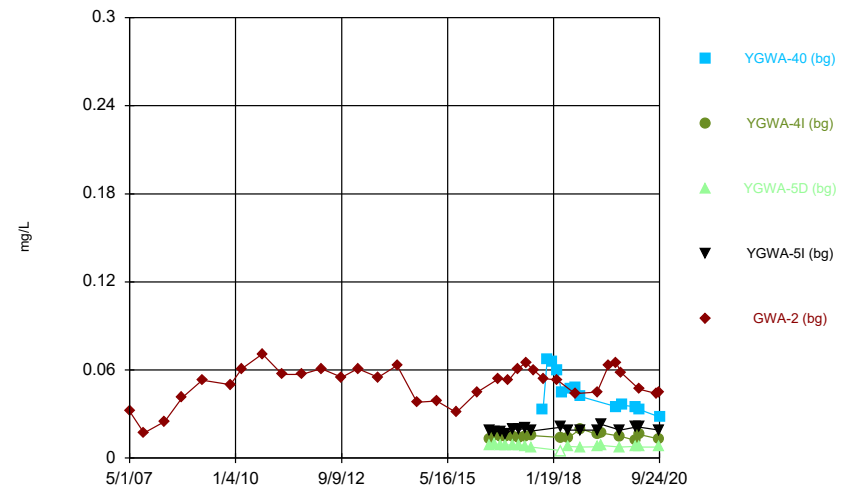
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



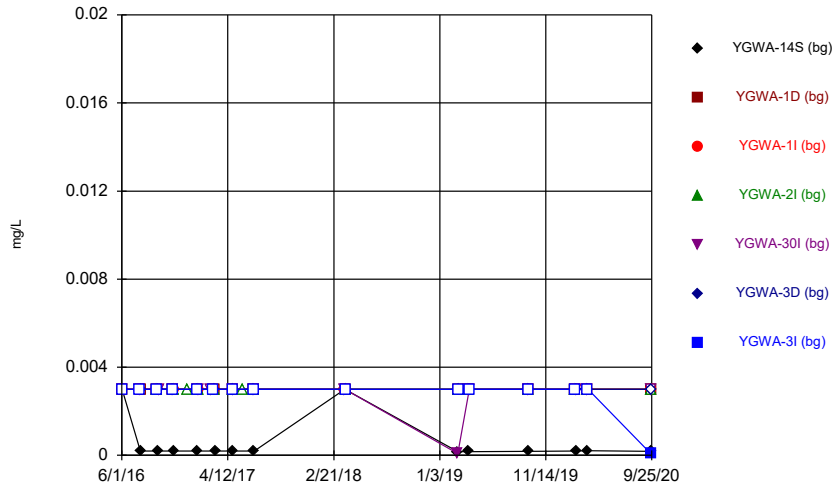
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Time Series



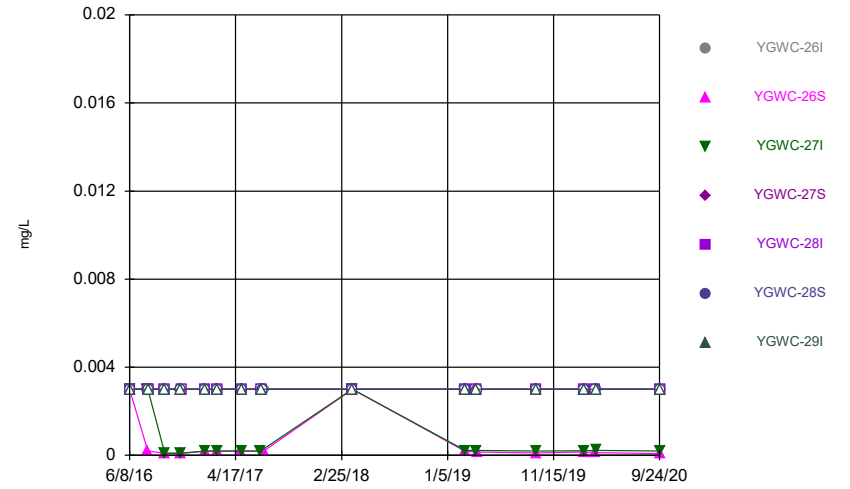
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Time Series



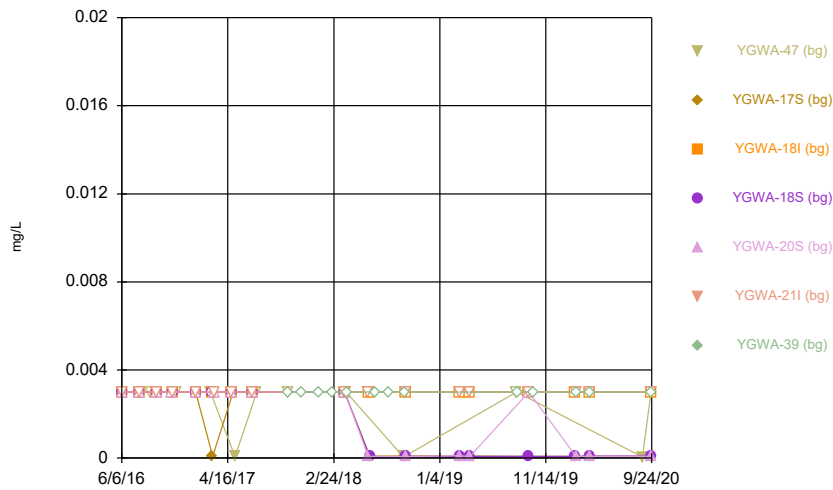
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Time Series



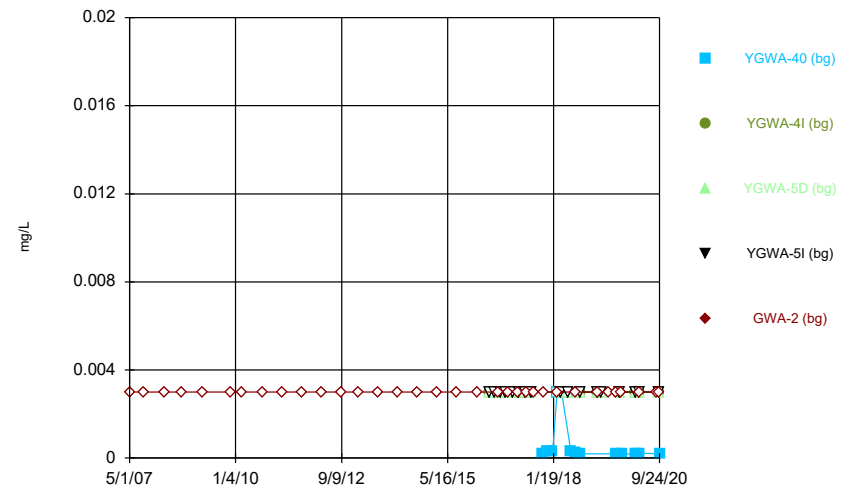
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Time Series



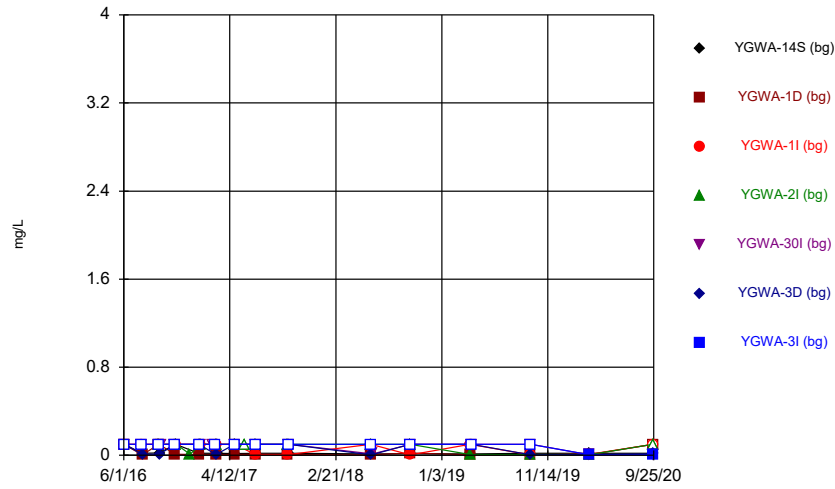
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Time Series



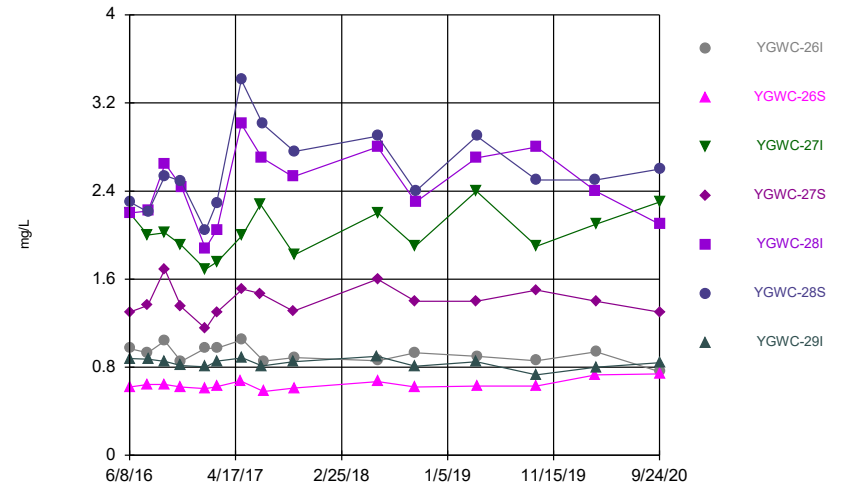
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Time Series



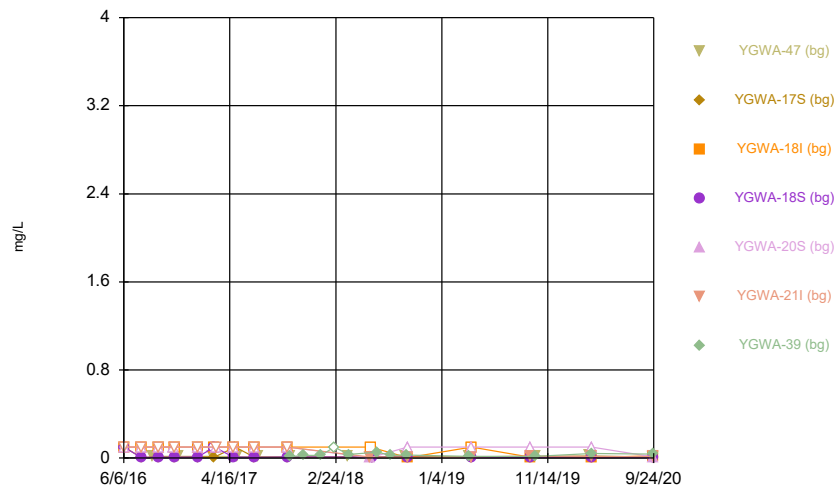
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Time Series



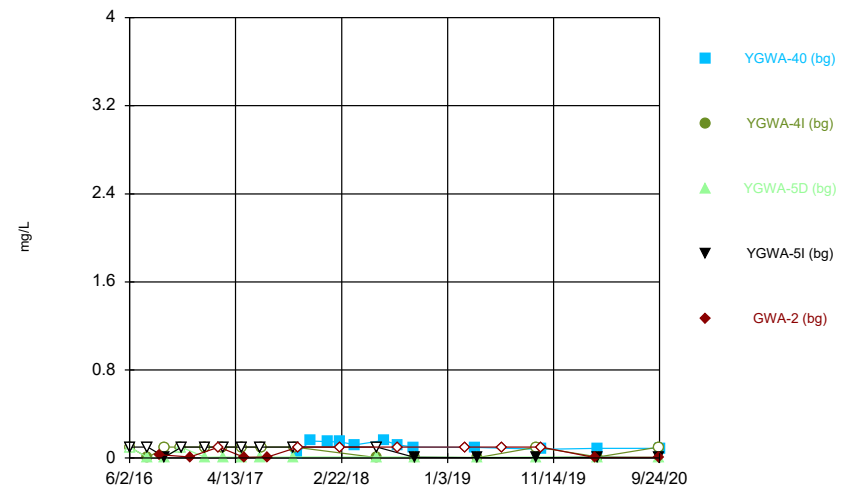
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Time Series



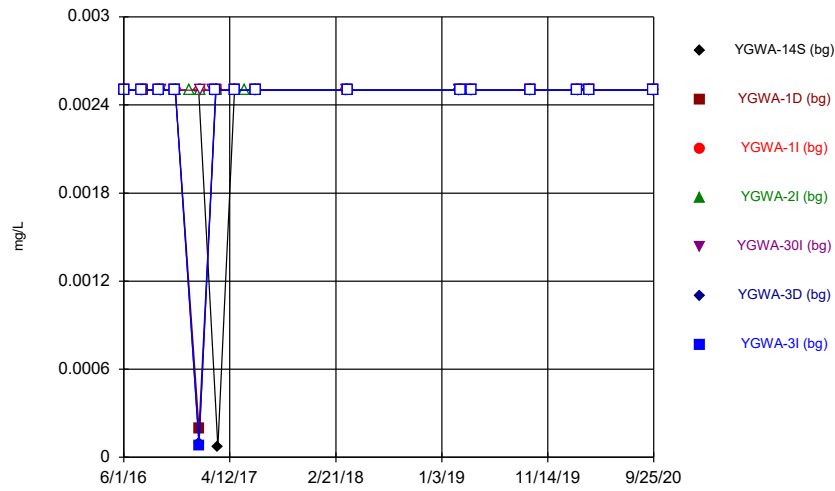
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Time Series



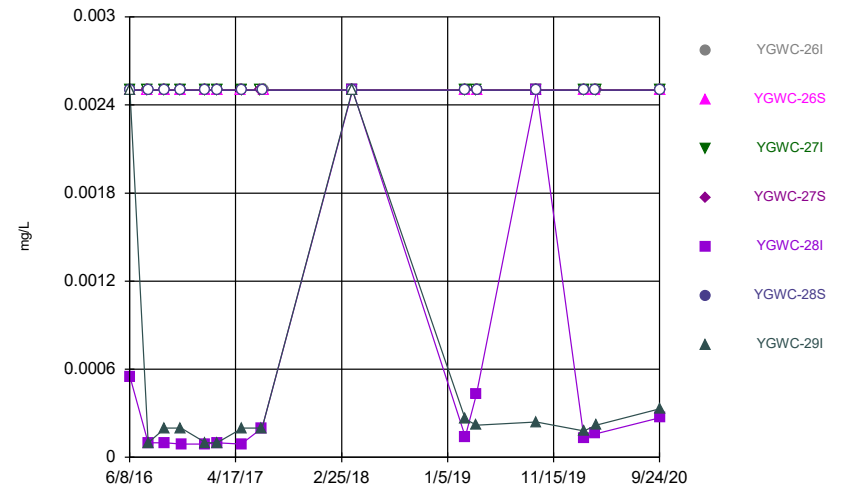
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Time Series



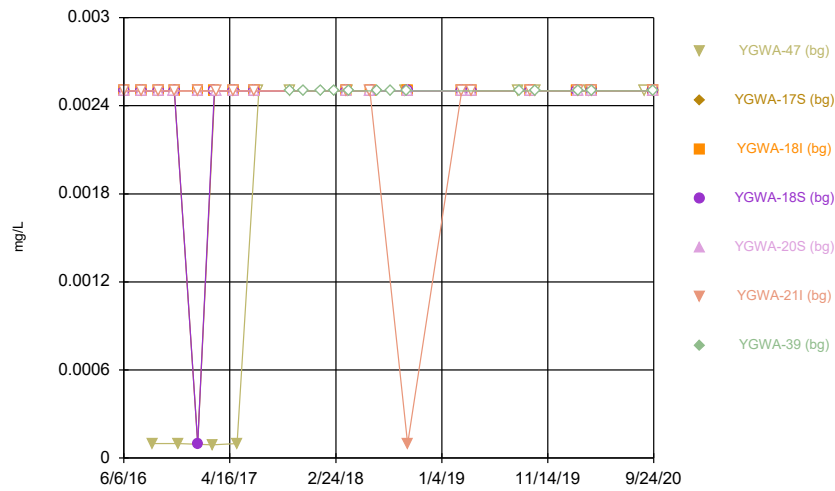
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Time Series



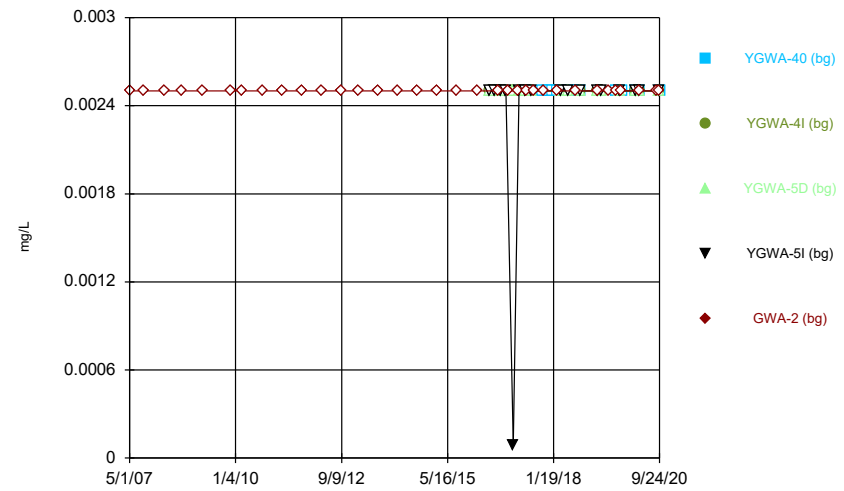
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Time Series



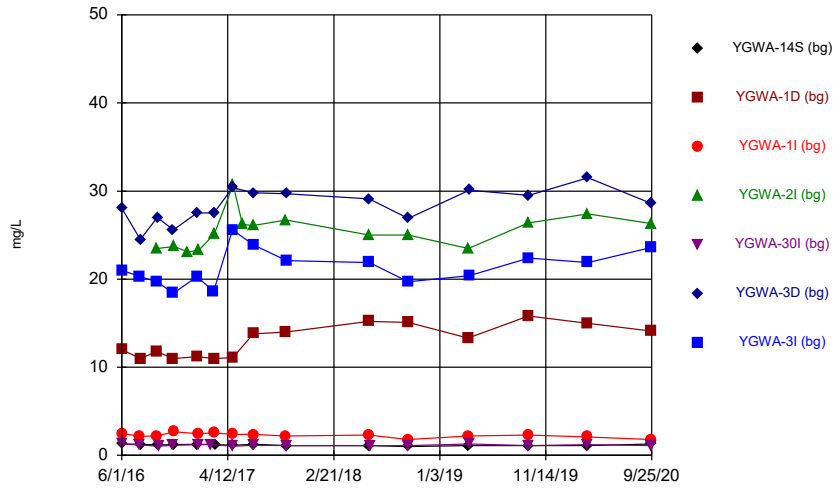
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Time Series



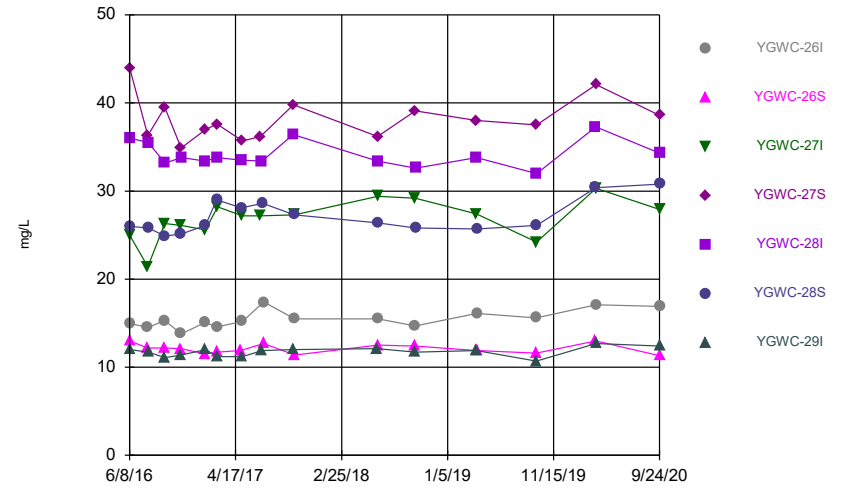
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Time Series



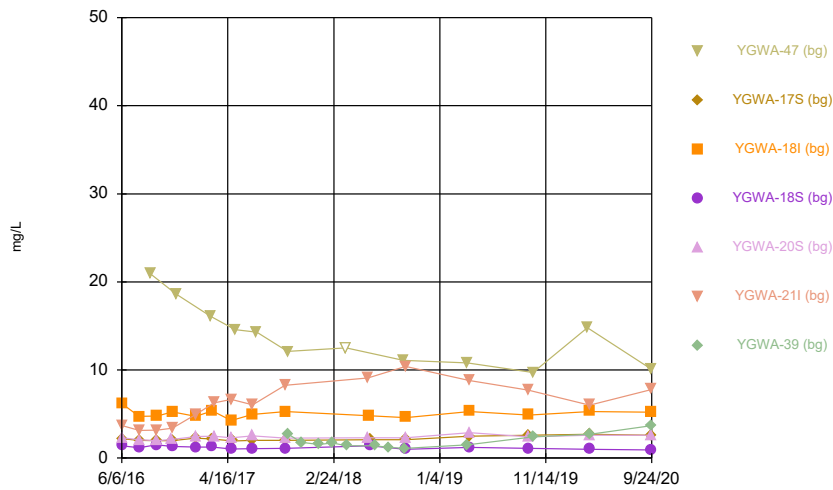
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



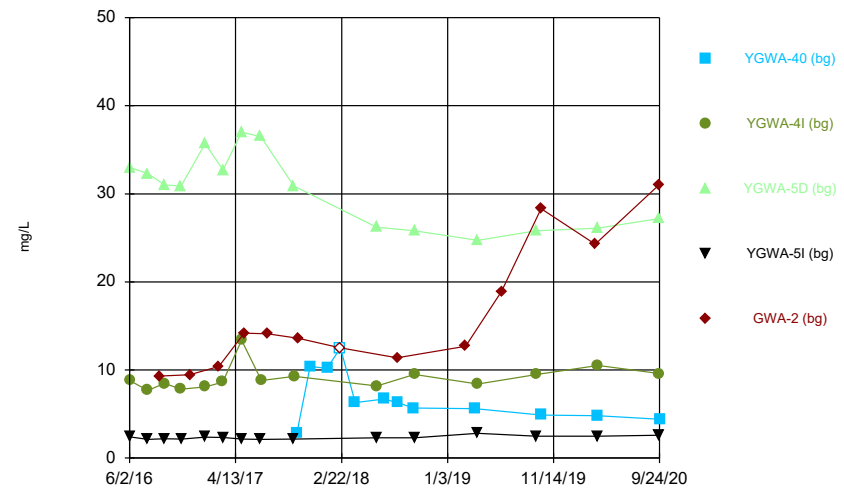
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



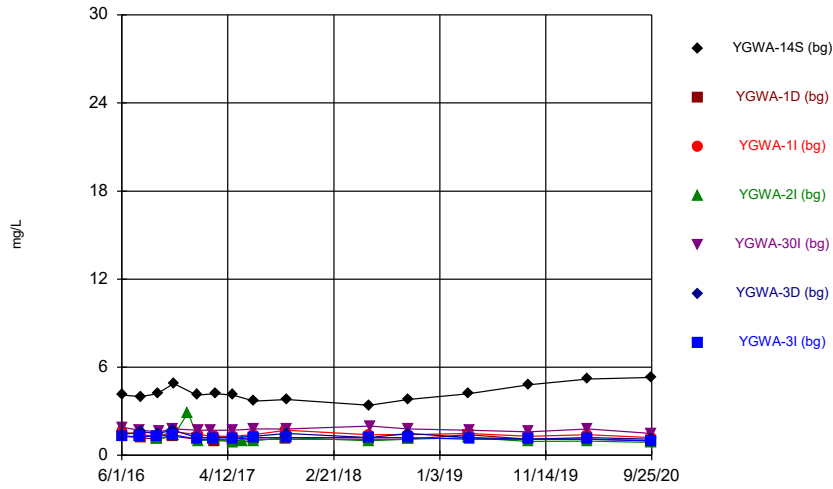
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Time Series



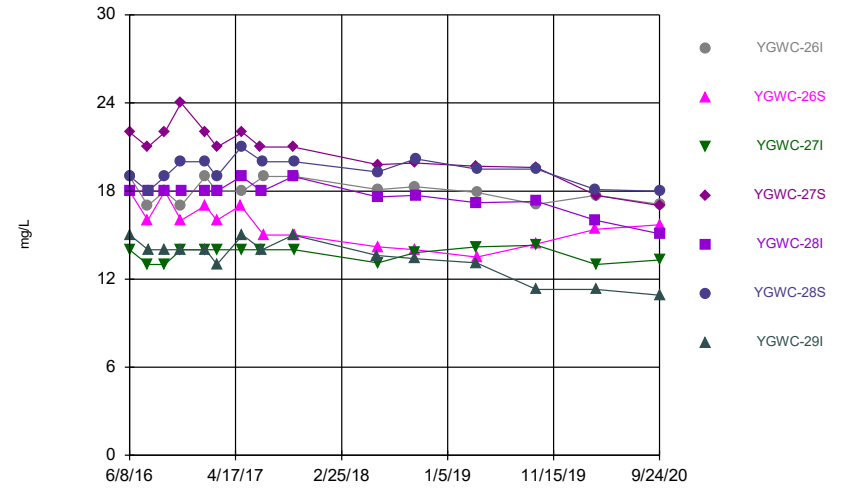
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



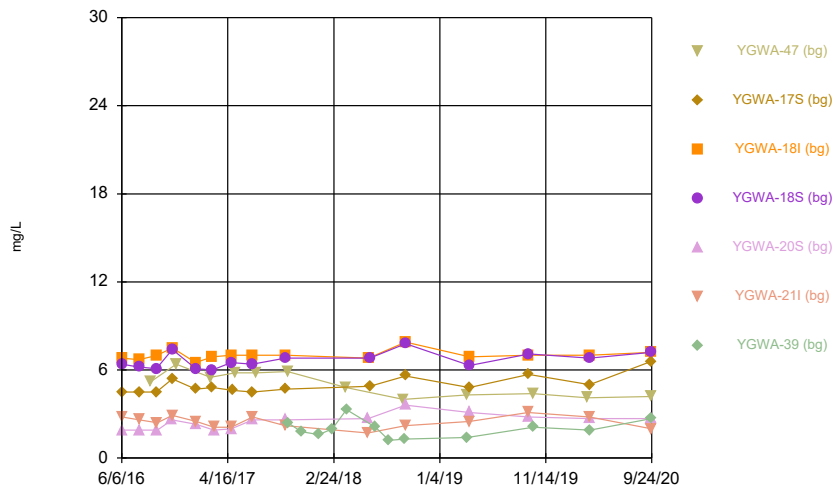
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



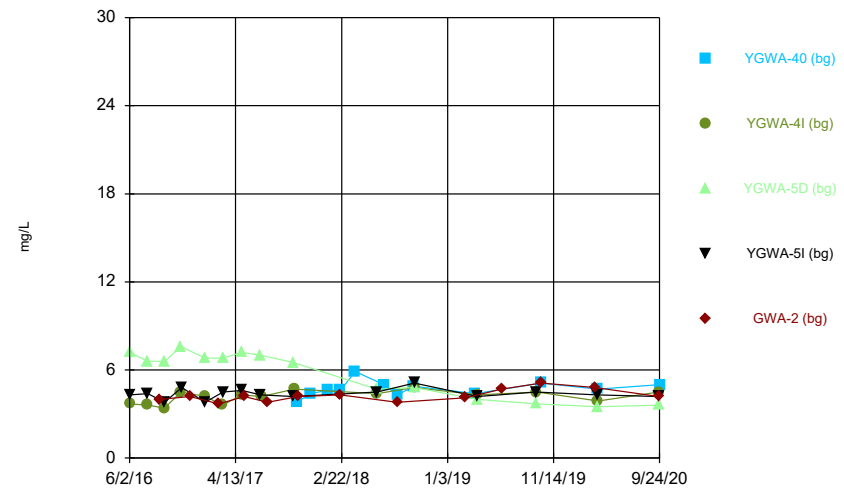
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Time Series



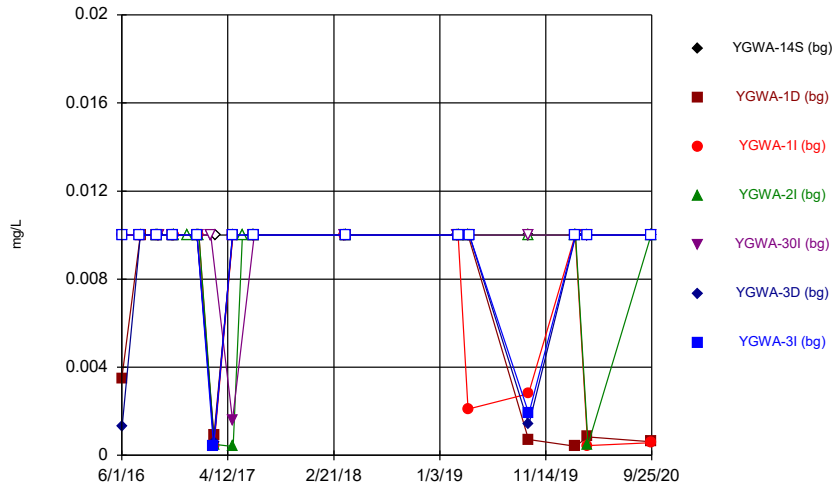
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Time Series



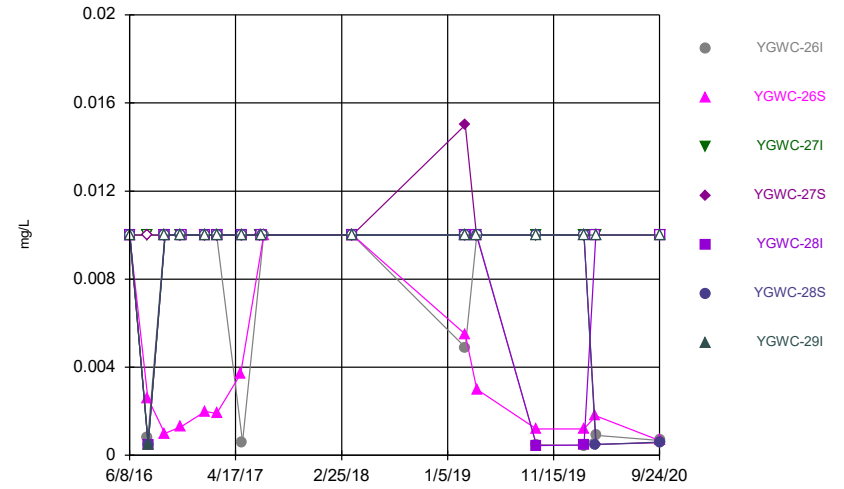
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Time Series



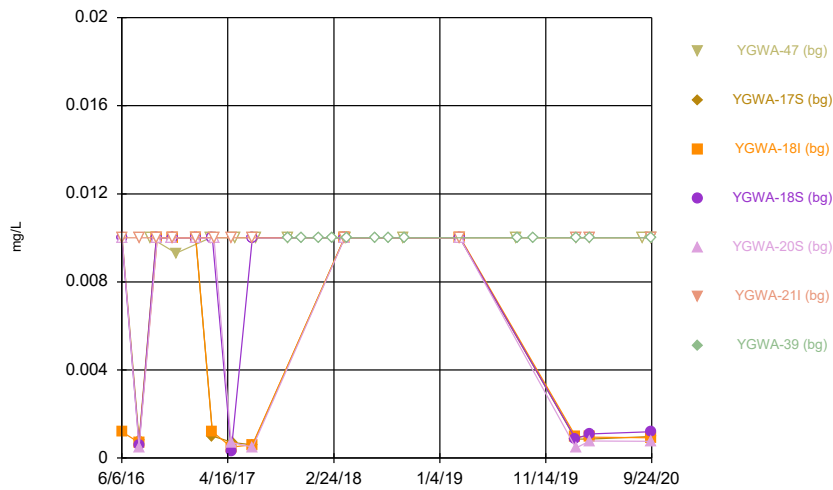
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Time Series



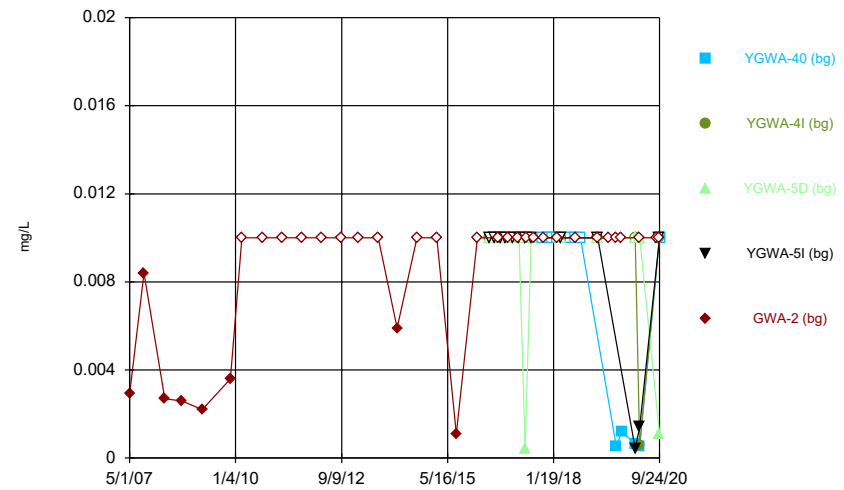
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Time Series



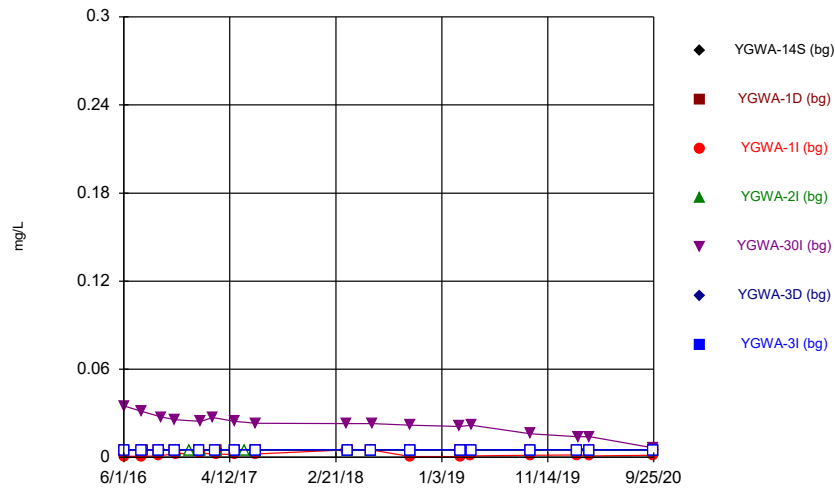
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Time Series



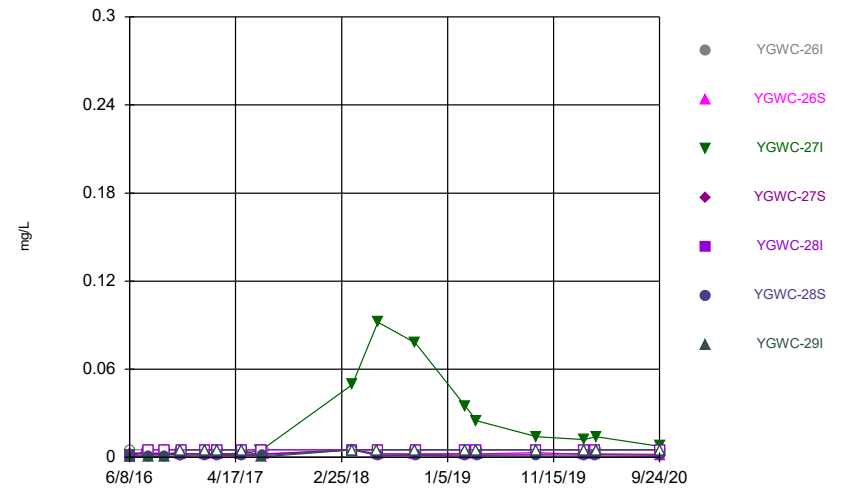
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Time Series



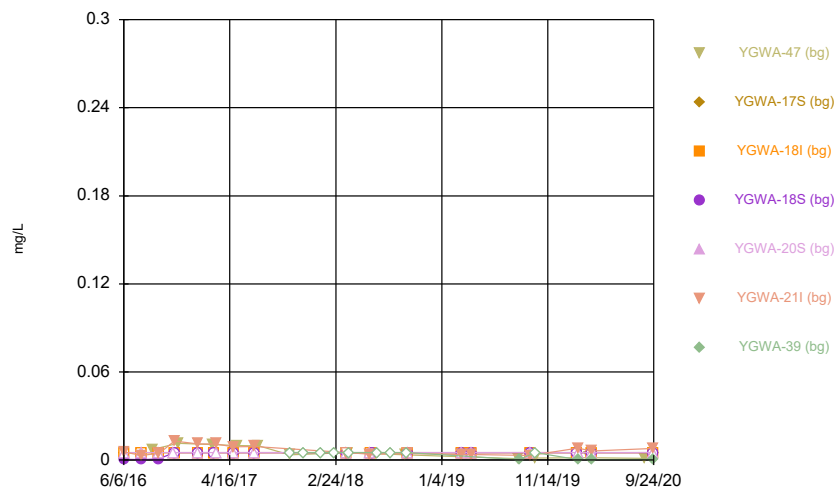
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Time Series



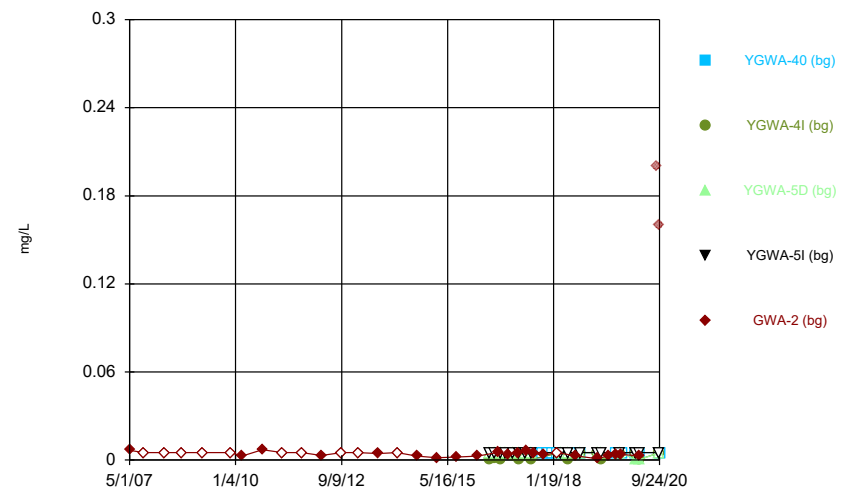
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Time Series



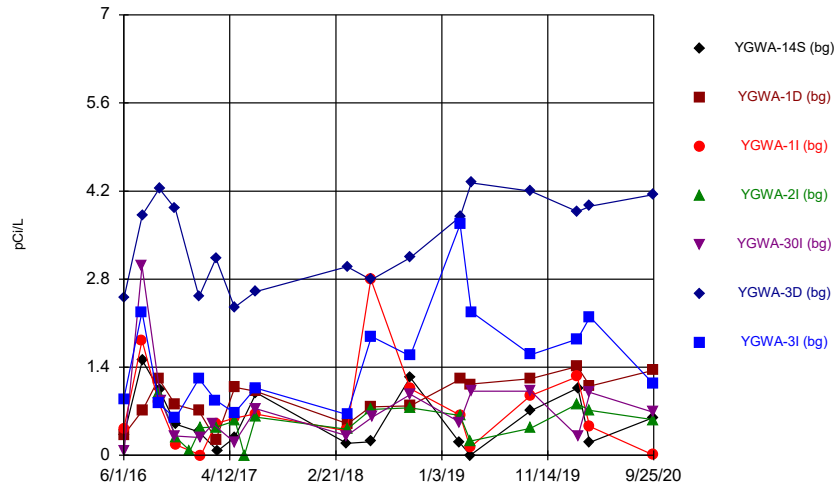
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Time Series



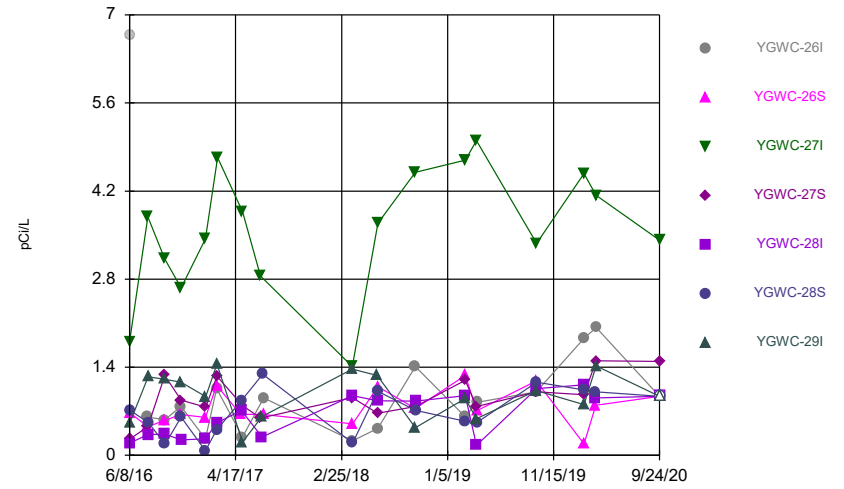
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Time Series



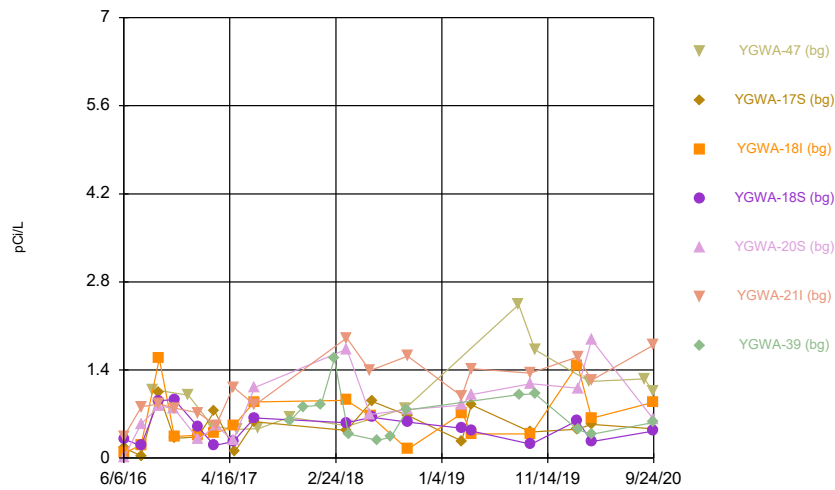
Constituent: Combined Radium 226 + 228 Analysis Run 1/27/2021 9:59 AM
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Time Series



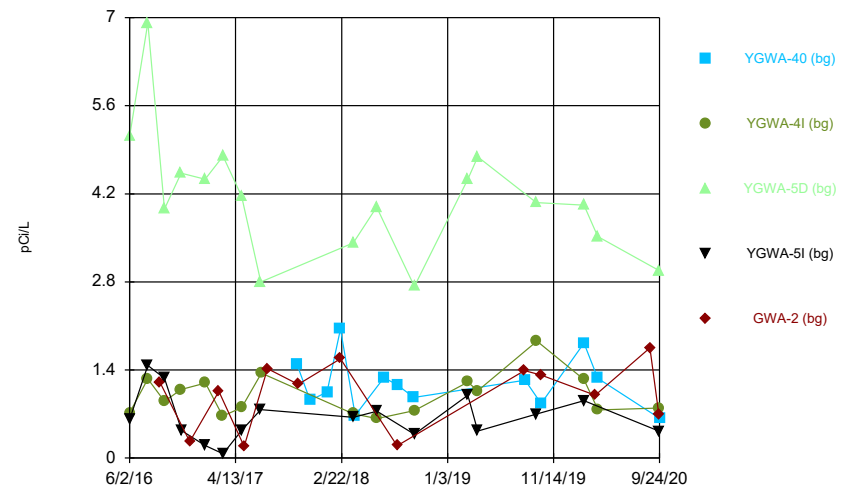
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Time Series



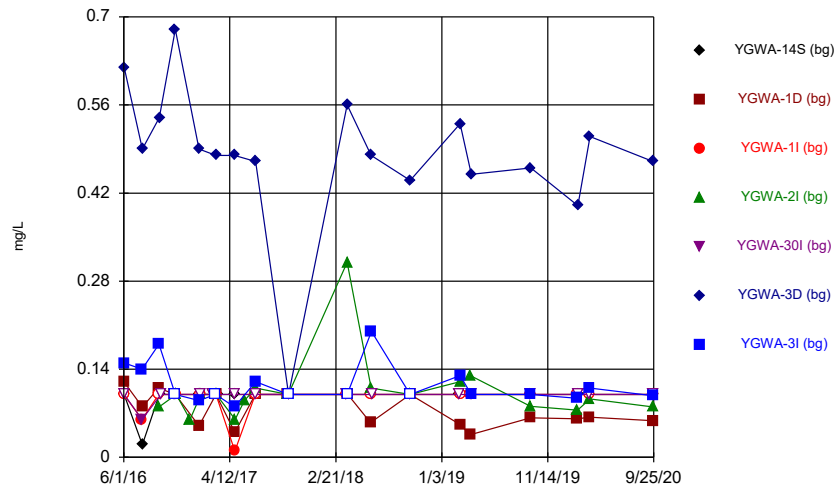
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Time Series



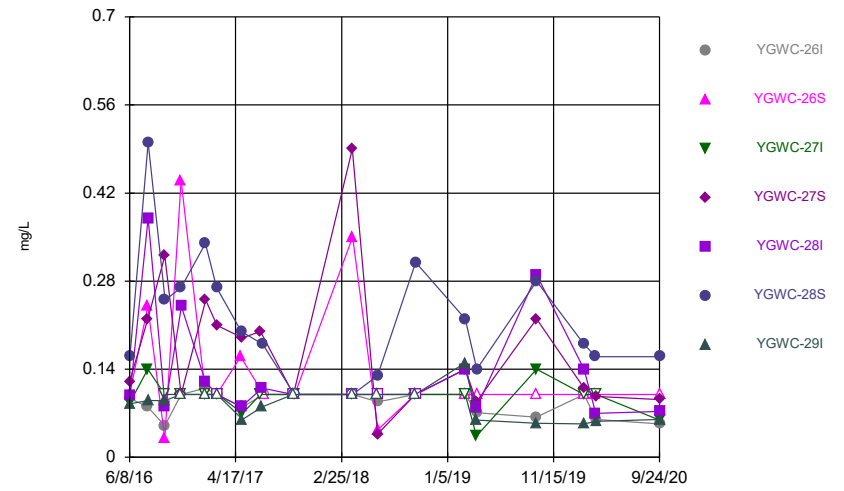
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Time Series



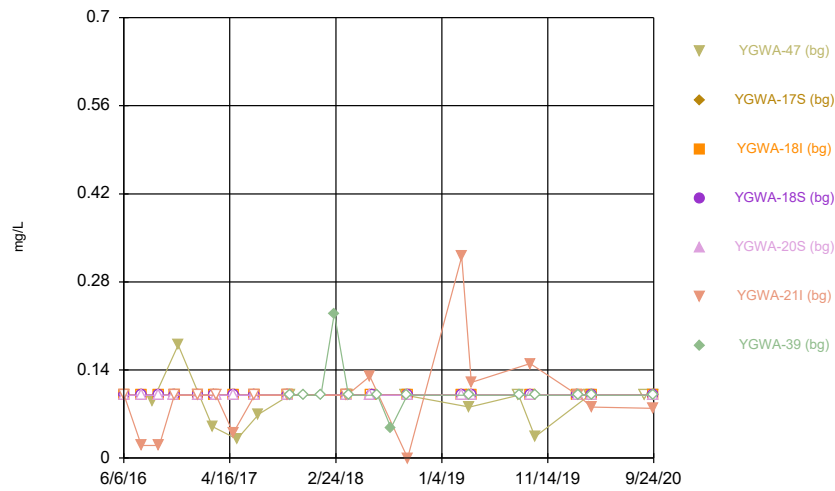
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Time Series



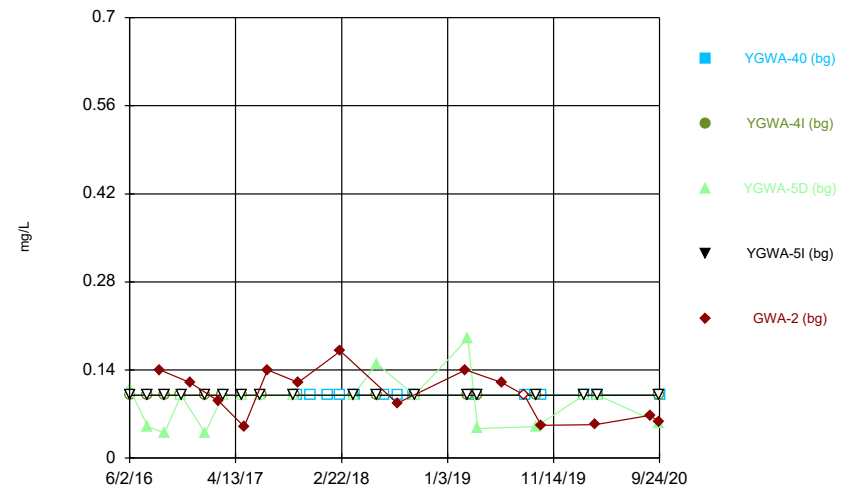
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Time Series



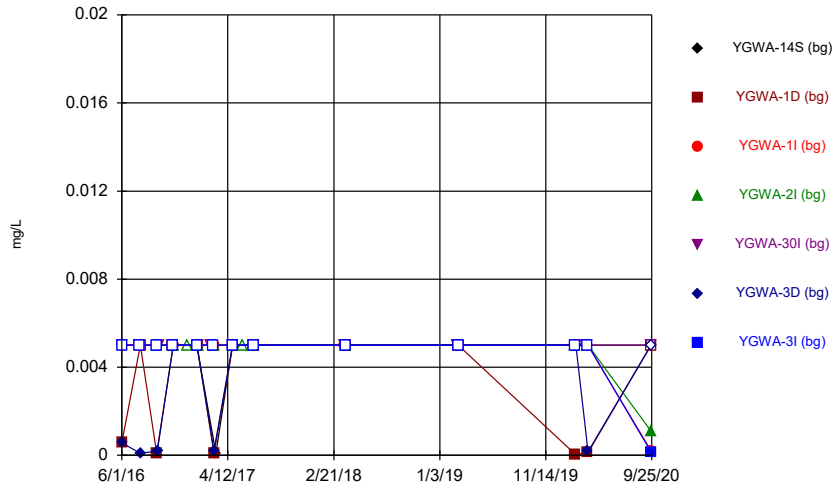
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Time Series



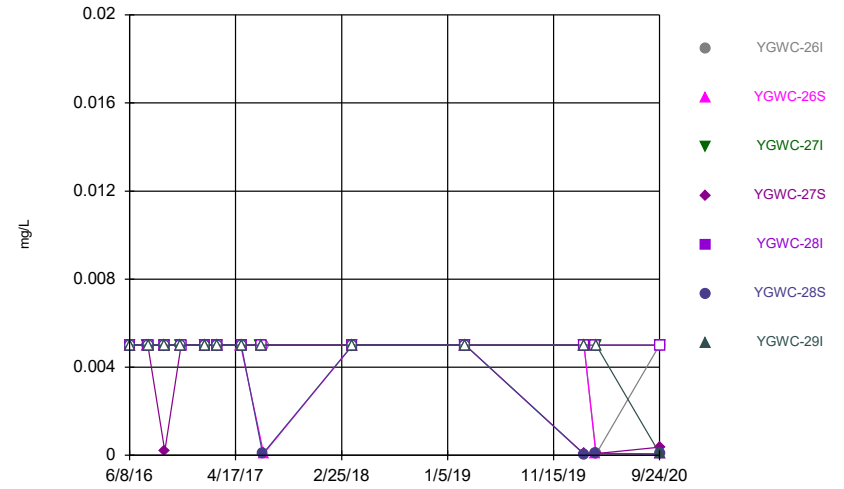
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Time Series



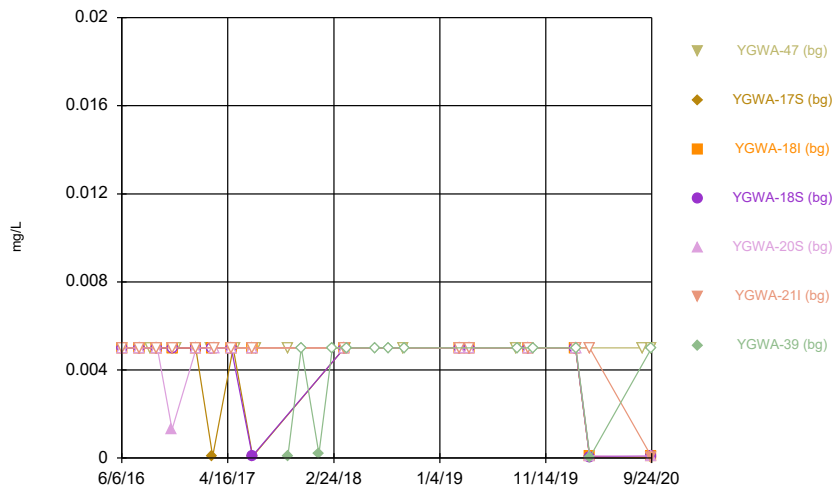
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Time Series



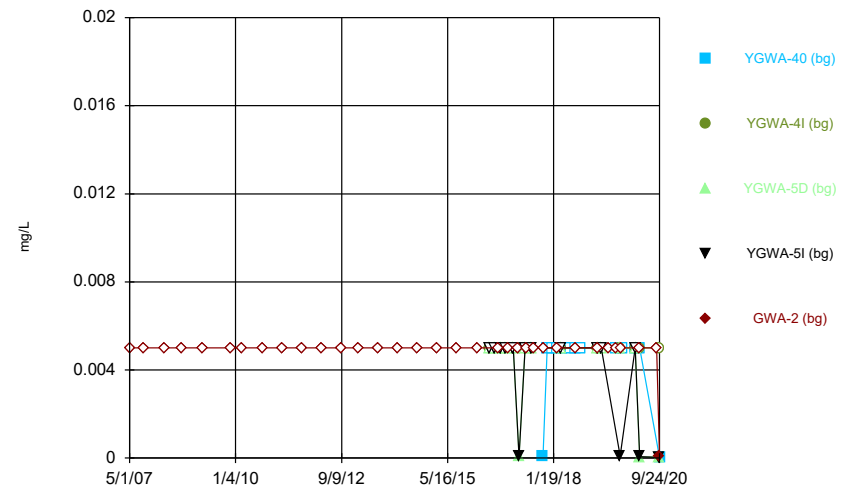
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Time Series



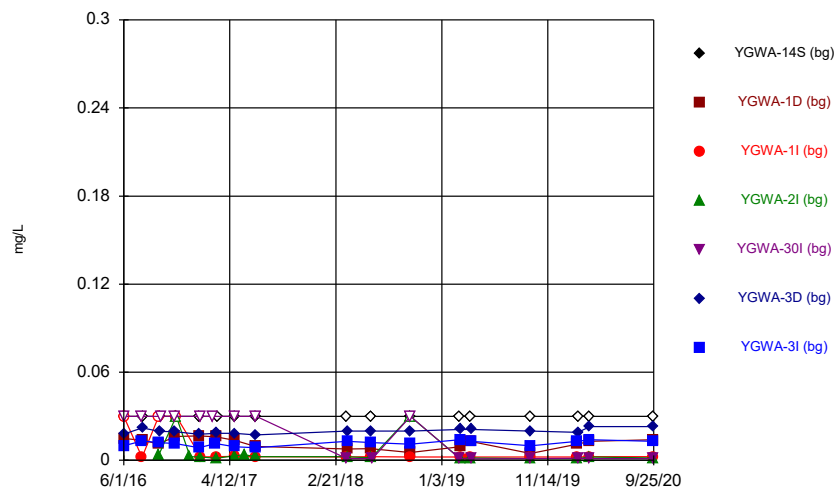
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Time Series



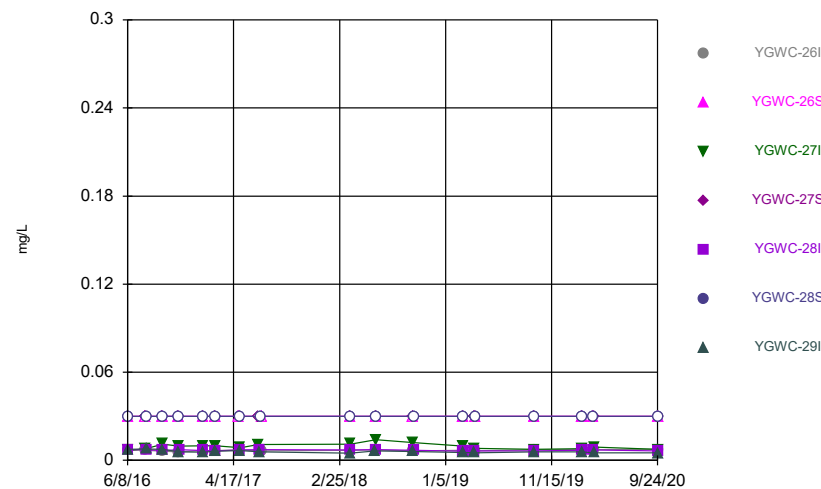
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Time Series



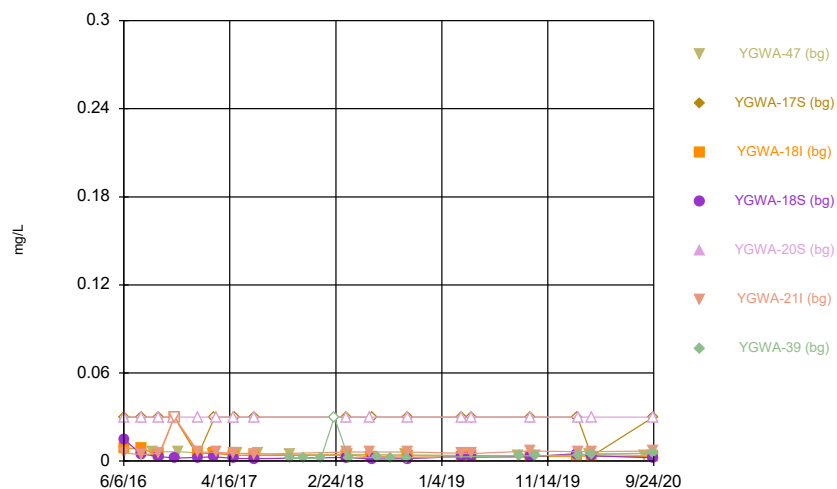
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Time Series



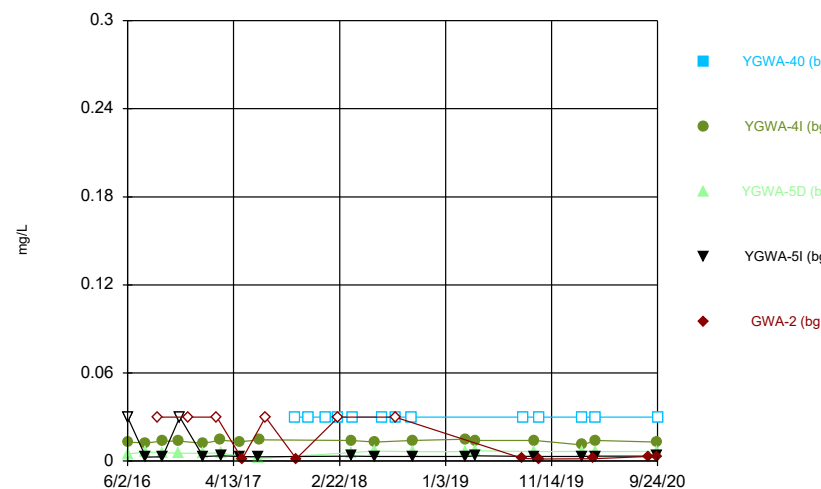
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Time Series



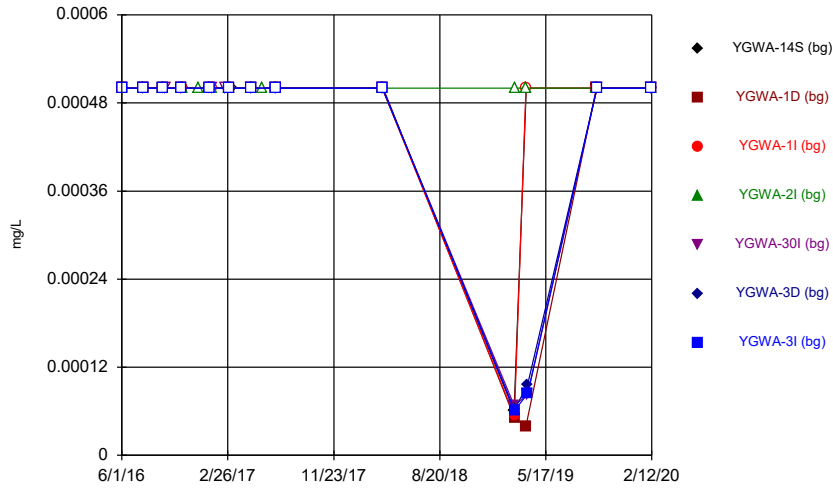
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Time Series



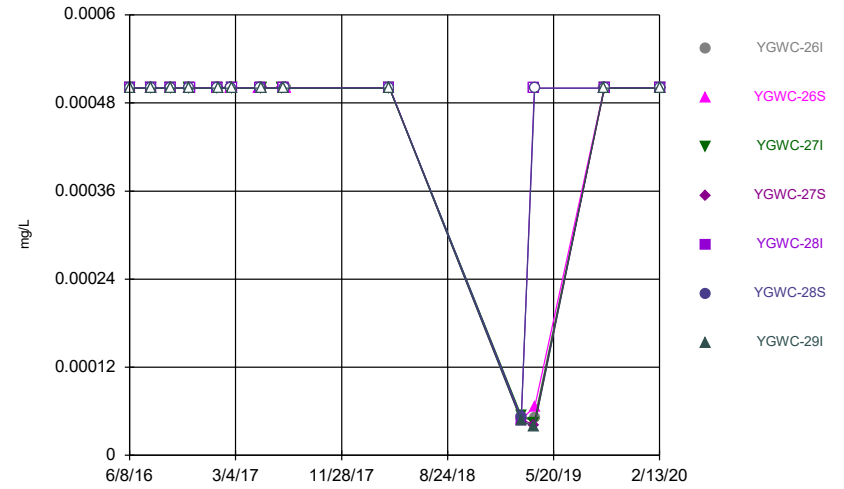
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Time Series



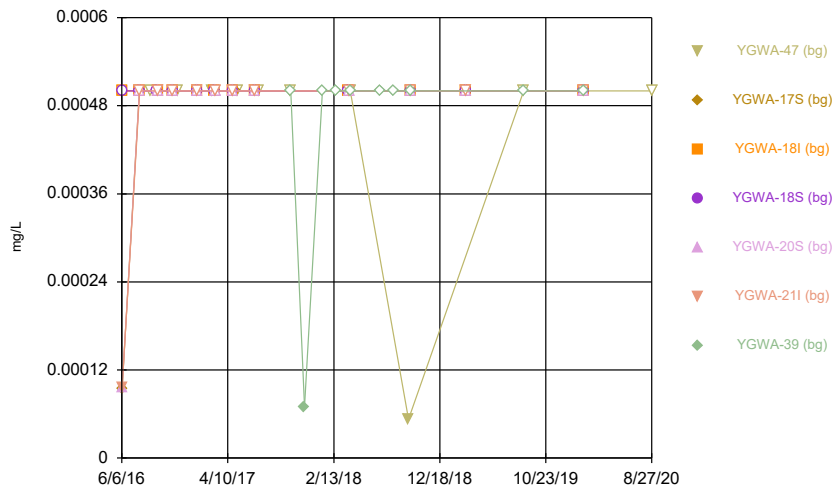
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



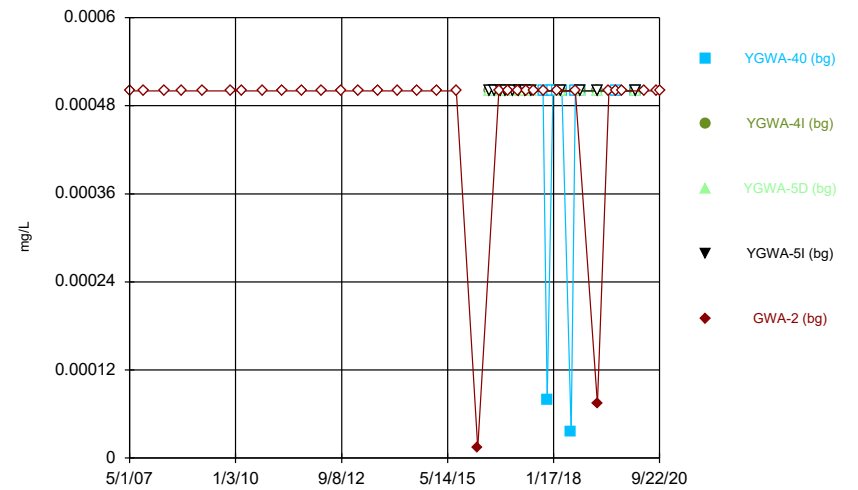
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Time Series



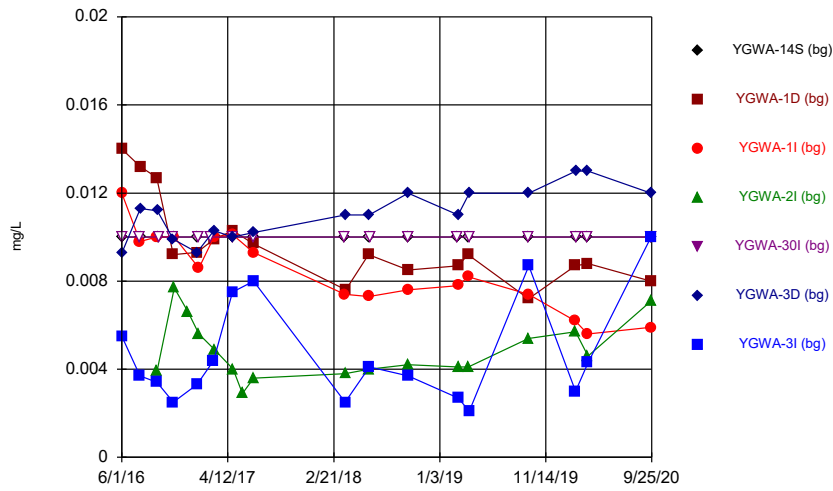
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Time Series



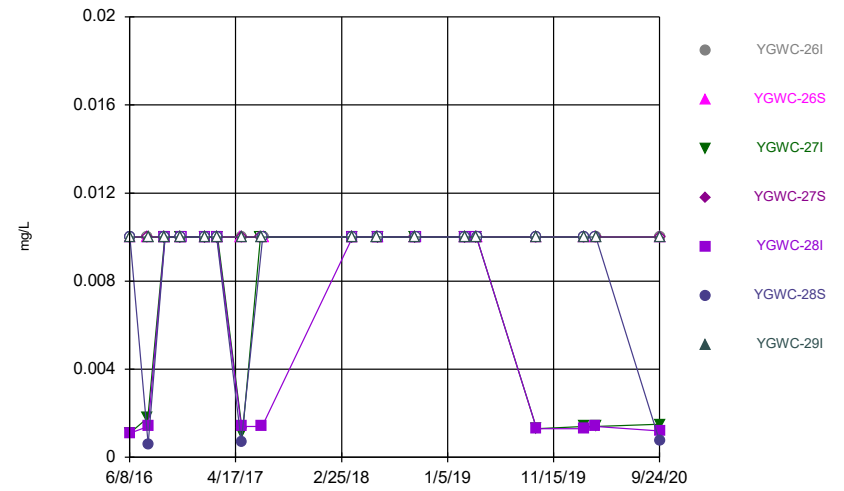
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Time Series



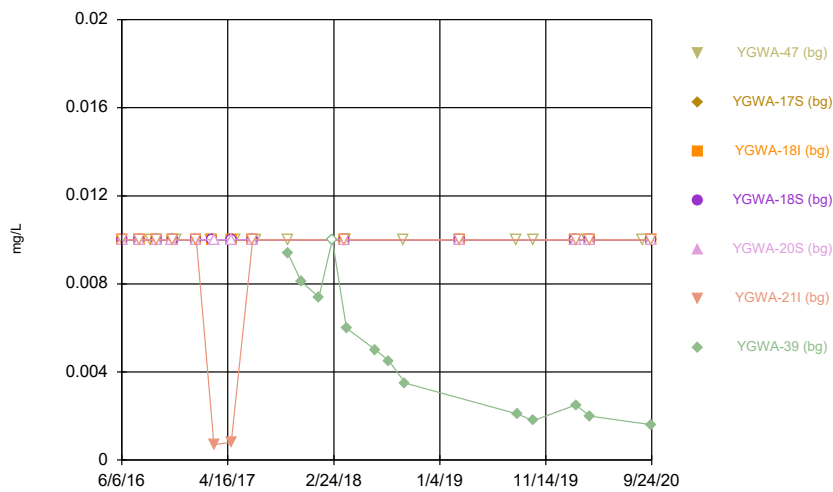
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



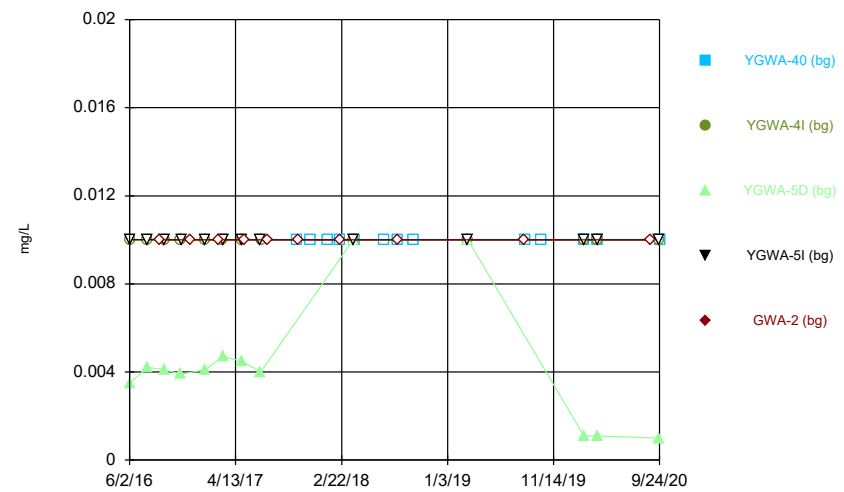
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Time Series



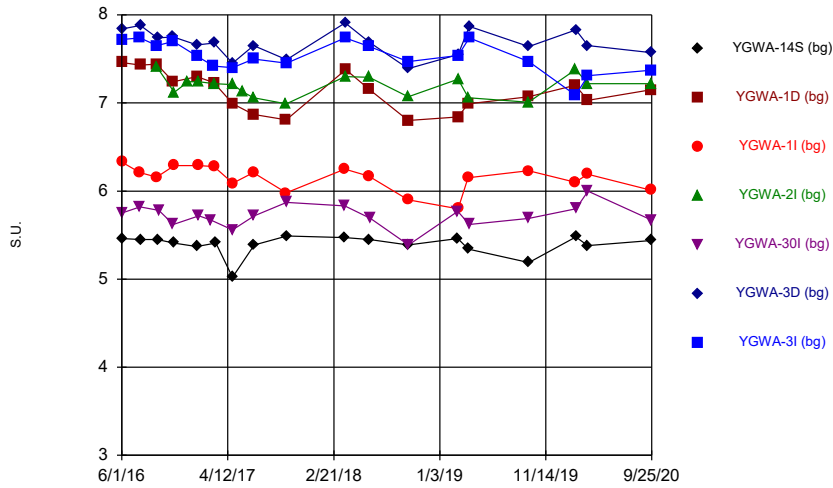
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Time Series



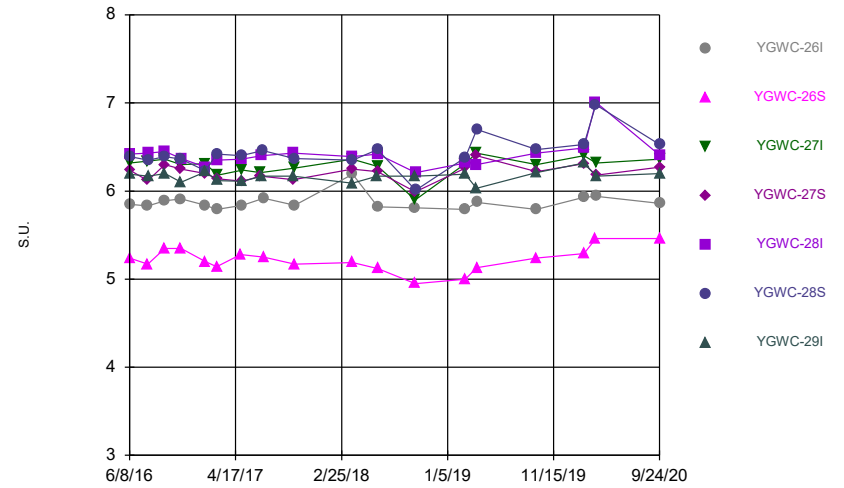
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Time Series



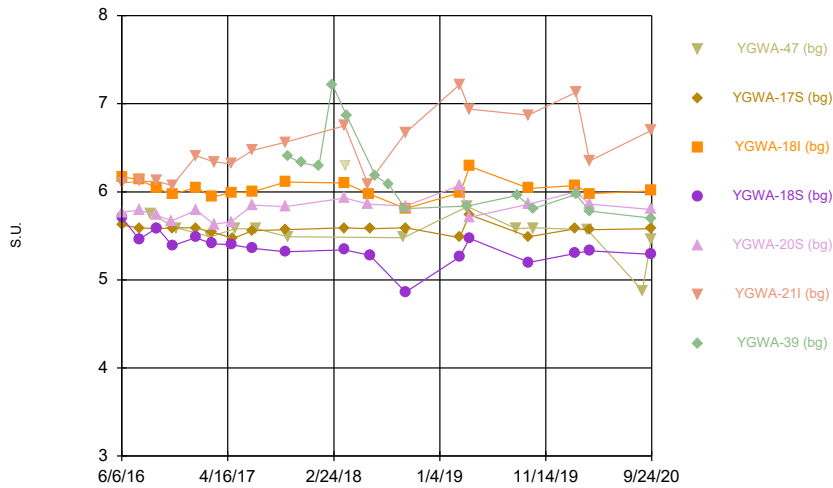
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



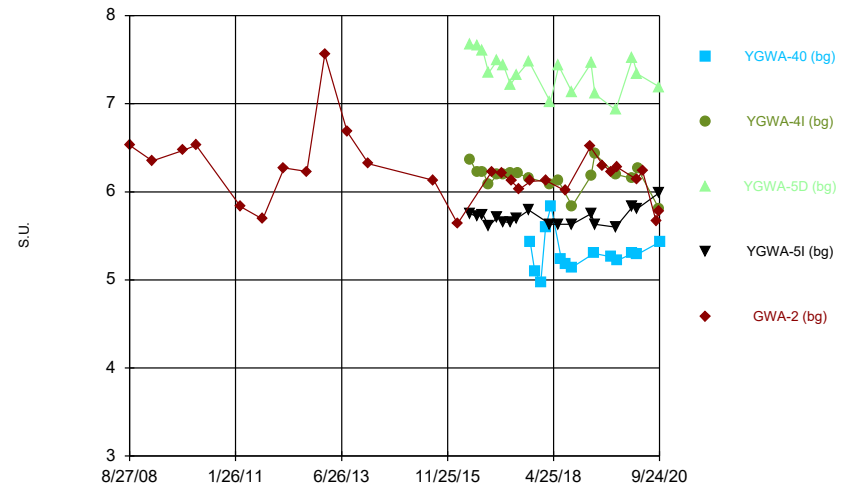
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



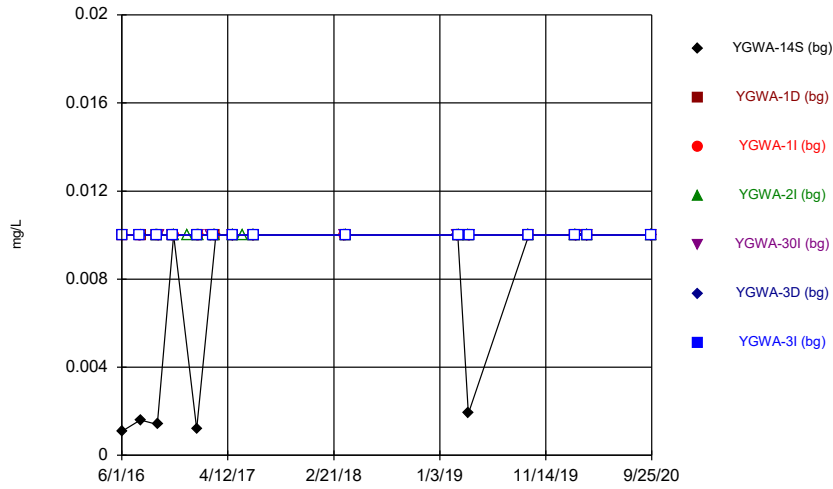
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Time Series



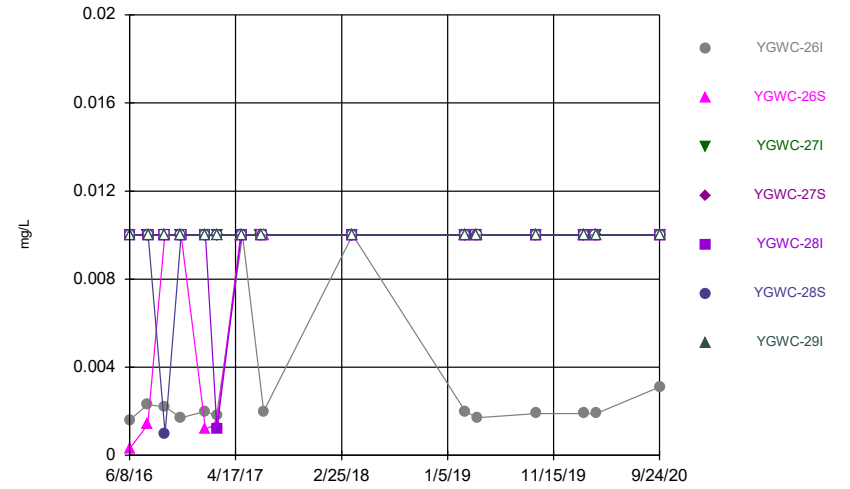
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Time Series



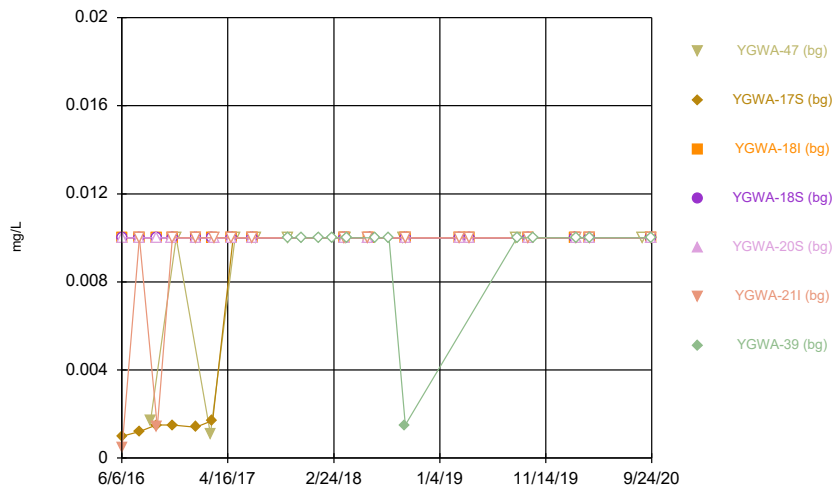
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Time Series



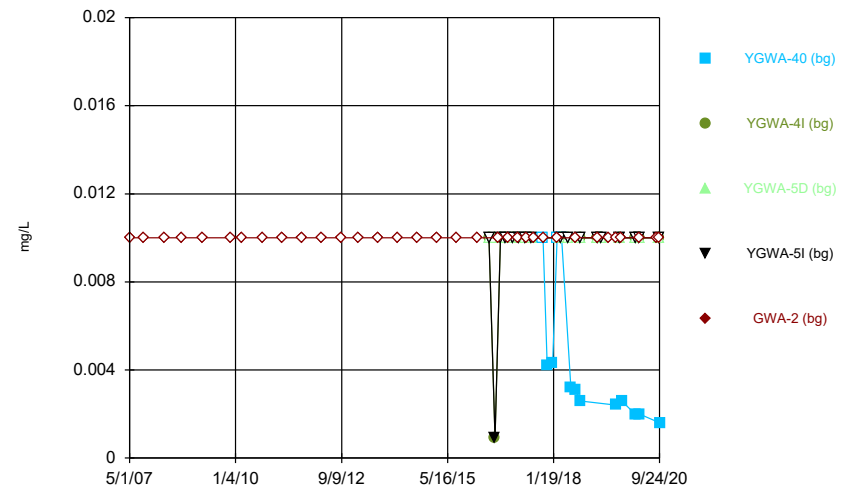
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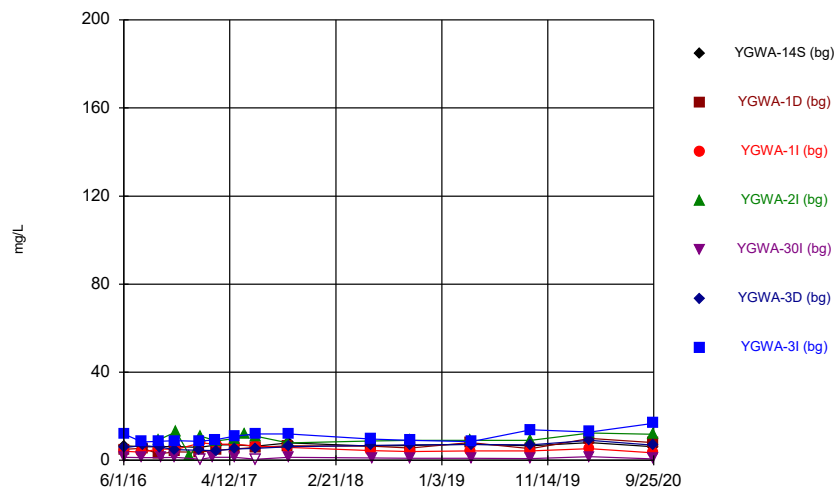
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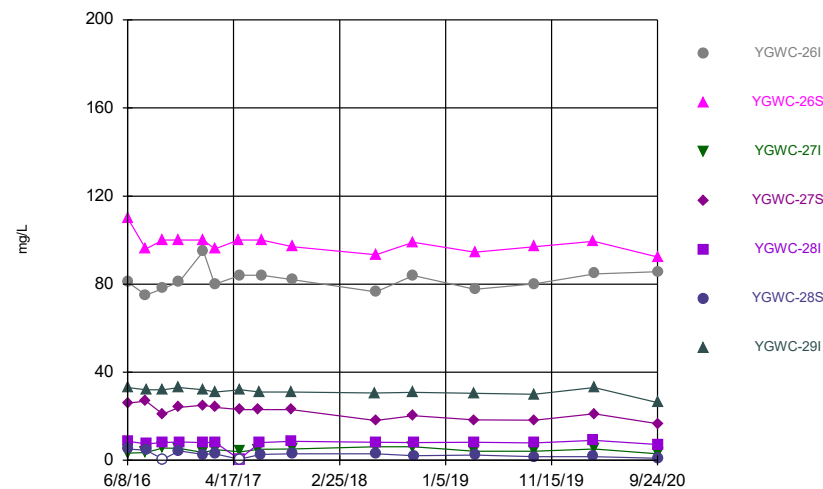
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Time Series



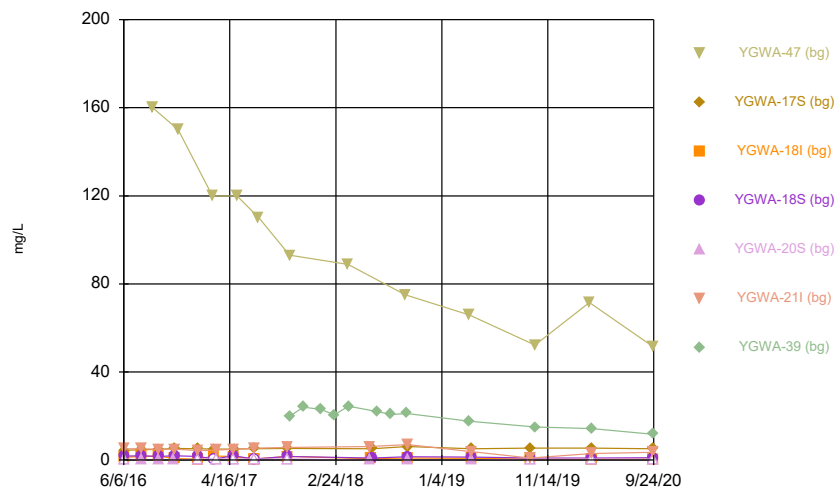
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



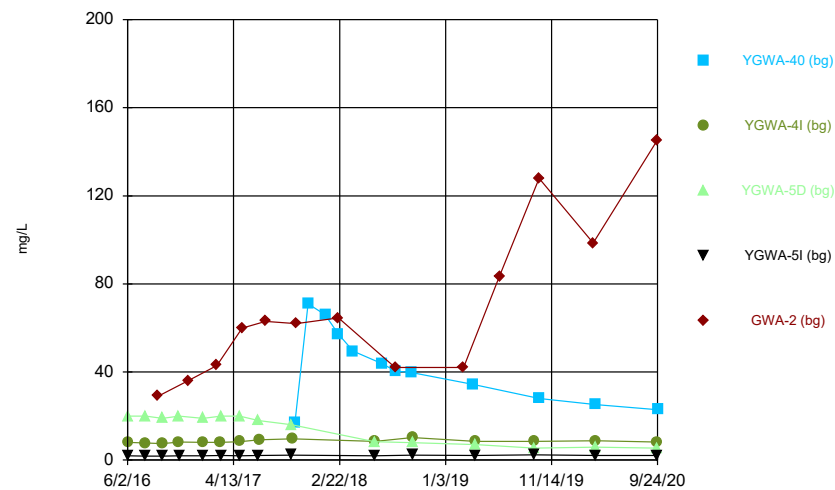
Constituent: Sulfate Analysis Run 1/27/2021 9:59 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



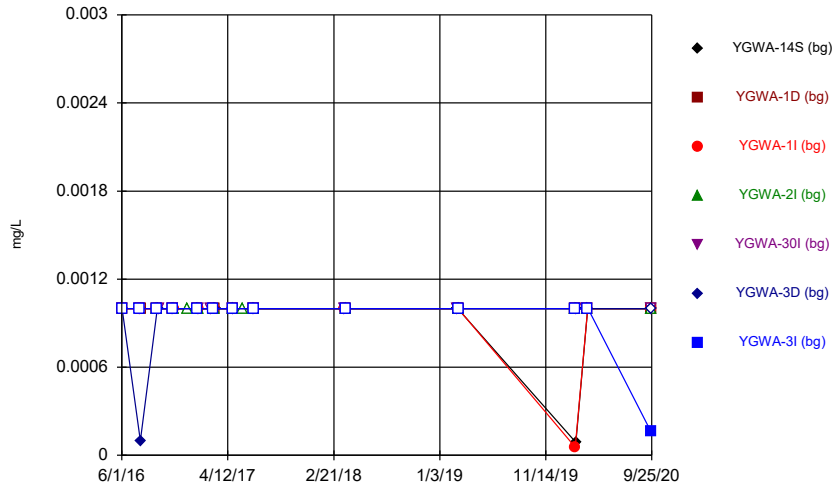
Constituent: Sulfate Analysis Run 1/27/2021 9:59 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



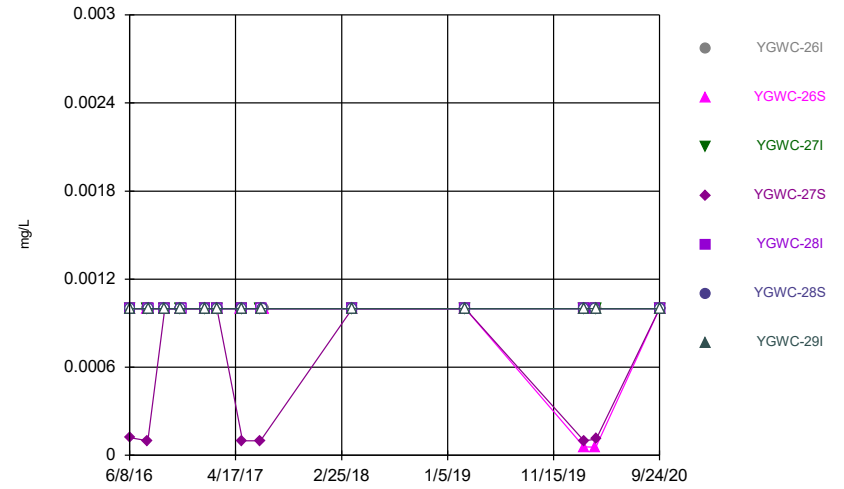
Constituent: Sulfate Analysis Run 1/27/2021 9:59 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



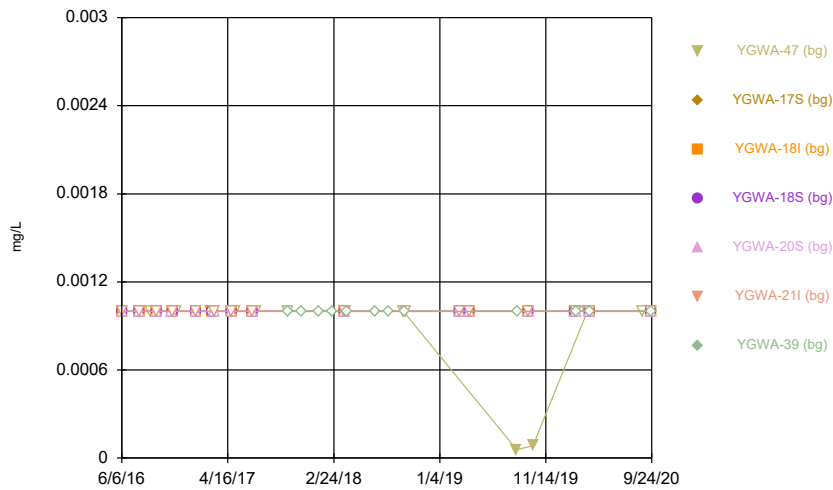
Constituent: Thallium Analysis Run 1/27/2021 9:59 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



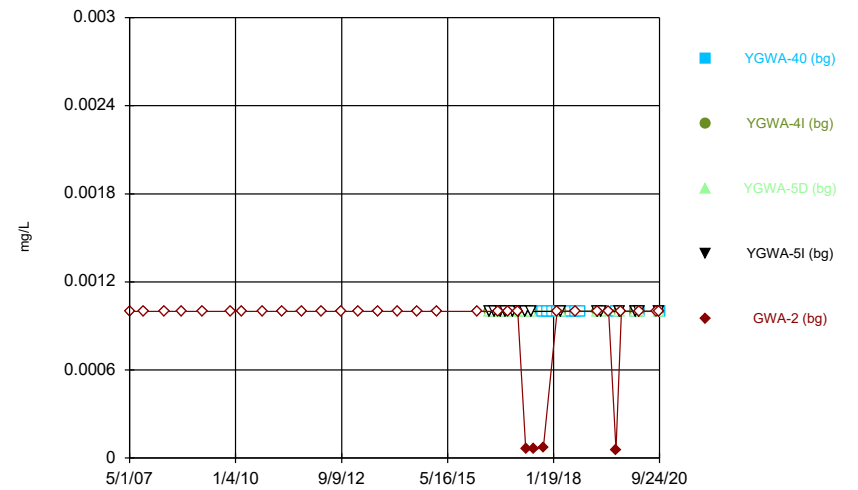
Constituent: Thallium Analysis Run 1/27/2021 10:00 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



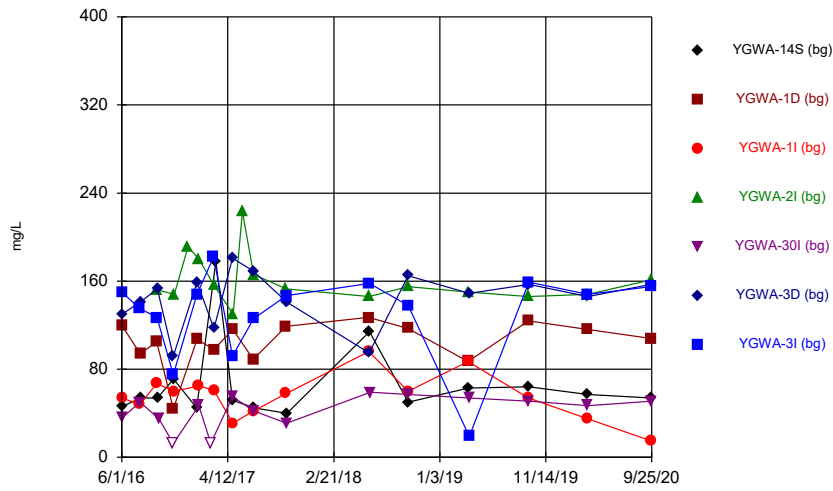
Constituent: Thallium Analysis Run 1/27/2021 10:00 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



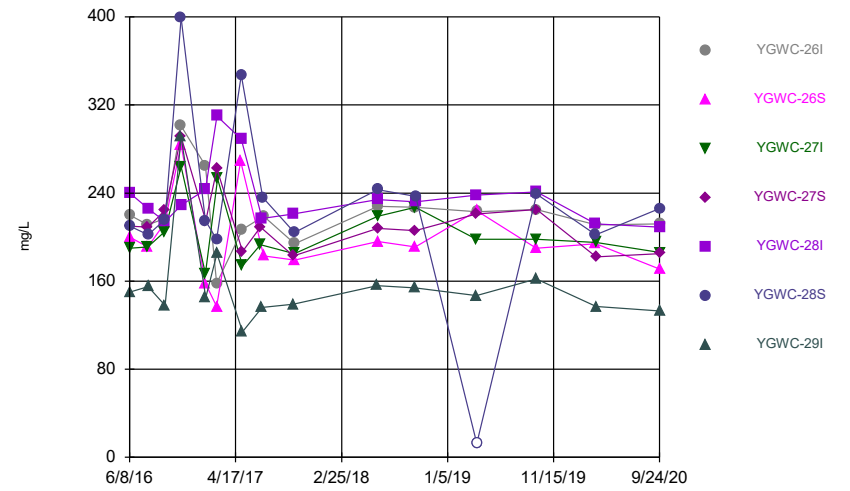
Constituent: Thallium Analysis Run 1/27/2021 10:00 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



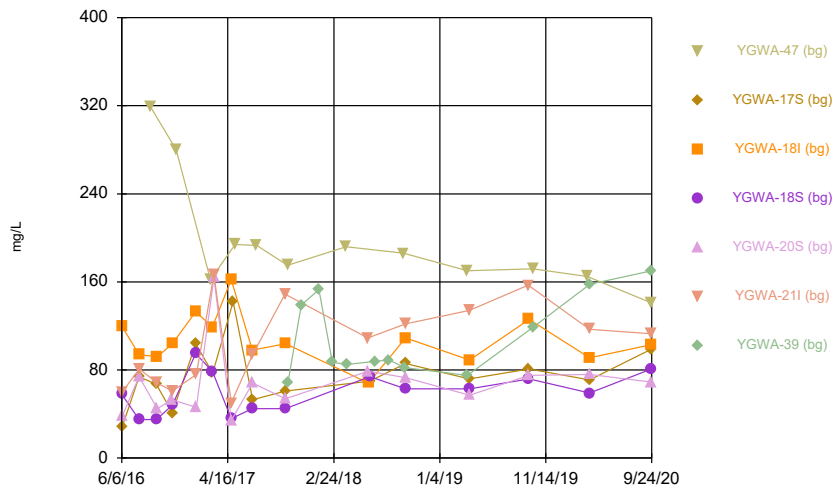
Constituent: Total Dissolved Solids Analysis Run 1/27/2021 10:00 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



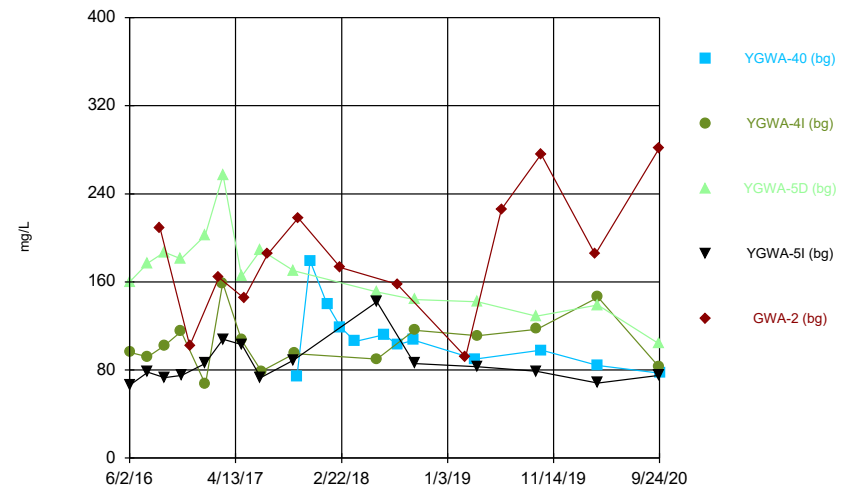
Constituent: Total Dissolved Solids Analysis Run 1/27/2021 10:00 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/27/2021 10:00 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 1/27/2021 10:00 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0005 (J)	0.001 (J)				0.002 (J)	
9/13/2016		0.001 (J)	<0.003				
9/14/2016				<0.003			<0.003
9/15/2016	<0.003					0.0027 (J)	
9/19/2016					<0.003		
11/1/2016		0.0015 (J)			<0.003	<0.003	<0.003
11/2/2016	<0.003						
11/4/2016			<0.003	<0.003			
12/15/2016				0.0012 (J)			
1/10/2017	<0.003						
1/11/2017		<0.003				<0.003	<0.003
1/16/2017			<0.003	<0.003	<0.003		
2/21/2017					<0.003		
3/1/2017							<0.003
3/2/2017		0.0004 (J)	<0.003			0.0008 (J)	
3/3/2017				<0.003			
3/8/2017	<0.003						
4/26/2017	<0.003				<0.003	<0.003	<0.003
4/27/2017		0.0004 (J)	0.0017 (J)				
4/28/2017				0.0015 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003		<0.003	<0.003
6/30/2017	<0.003				<0.003		
3/27/2018	<0.003		<0.003		<0.003		
3/28/2018				<0.003		<0.003	<0.003
3/29/2018		<0.003					
2/26/2019	<0.003				<0.003		
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
2/10/2020		0.00088 (J)	<0.003				
2/11/2020				0.00036 (J)			<0.003
2/12/2020	<0.003				<0.003	<0.003	
3/18/2020	<0.003		0.0004 (J)				
3/19/2020		<0.003		0.0003 (J)	<0.003	0.00064 (J)	<0.003
9/23/2020		<0.003	<0.003	<0.003		<0.003	<0.003
9/24/2020					<0.003		
9/25/2020	<0.003						

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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	
8/30/2016	0.0028 (J)						
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	
11/14/2016	<0.003						
1/11/2017		<0.003	<0.003	<0.003			
1/13/2017					<0.003	<0.003	
2/24/2017	<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					
5/8/2017	0.0004 (J)						
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003			<0.003	<0.003	
7/11/2017	0.0006 (J)						
10/10/2017	<0.003						
10/11/2017							0.0006 (J)
11/20/2017							<0.003
1/11/2018							<0.003
2/20/2018							<0.003
3/28/2018		<0.003	<0.003	<0.003			
3/29/2018					<0.003	<0.003	
4/2/2018	<0.003						
4/3/2018							<0.003
6/28/2018							<0.003
8/7/2018							<0.003
9/19/2018	<0.003						
9/24/2018							<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		
8/20/2019	<0.003						
8/21/2019							<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
3/24/2020		<0.003	<0.003	<0.003	<0.003	0.0017 (J)	
3/25/2020							0.0014 (J)
8/27/2020	0.00048 (J)						
9/22/2020	<0.003						
9/23/2020		<0.003	<0.003	<0.003			
9/24/2020					<0.003	0.0047	<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					<0.003
9/11/2007					<0.003
3/20/2008					<0.003
8/27/2008					<0.003
3/3/2009					<0.003
11/18/2009					<0.003
3/3/2010					<0.003
9/8/2010					<0.003
3/10/2011					<0.003
9/8/2011					<0.003
3/5/2012					<0.003
9/10/2012					<0.003
2/6/2013					<0.003
8/12/2013					<0.003
2/5/2014					<0.003
8/5/2014					<0.003
2/4/2015					<0.003
8/3/2015					<0.003
2/16/2016					<0.003
6/2/2016		<0.003	<0.003	<0.003	
7/26/2016		0.0003 (J)	<0.003	<0.003	
8/31/2016					<0.003
9/14/2016		<0.003	<0.003	<0.003	
11/2/2016		<0.003	<0.003		
11/4/2016				<0.003	
11/28/2016					0.0014 (J)
1/12/2017			<0.003	<0.003	
1/13/2017		<0.003			
2/22/2017					<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
6/27/2017			<0.003	<0.003	
6/29/2017		<0.003			
7/17/2017					<0.003
10/12/2017	<0.003				
10/16/2017					<0.003
11/20/2017	<0.003				
1/10/2018	<0.003				
2/19/2018	<0.003				<0.003
3/29/2018		<0.003	<0.003	<0.003	
4/3/2018	<0.003				
6/28/2018	<0.003				
8/6/2018					<0.003
8/7/2018	<0.003				
9/24/2018	<0.003				
2/25/2019					<0.003
3/4/2019		<0.003	<0.003	<0.003	
4/3/2019		<0.003	<0.003	<0.003	
6/12/2019					<0.003

Time Series

Constituent: Antimony (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.003
8/21/2019	<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	<0.003	
3/17/2020					<0.003
3/24/2020	<0.003		<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	<0.003				

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0021	<0.005				<0.005
6/2/2016	<0.005				<0.005	<0.005	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	0.0016 (J)				<0.005	
9/13/2016		<0.005	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					<0.005		
11/1/2016		<0.005			<0.005	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			<0.005	0.0017 (J)			
12/15/2016				0.0023 (J)			
1/10/2017	<0.005						
1/11/2017		0.0017 (J)				<0.005	<0.005
1/16/2017			<0.005	0.0018 (J)	<0.005		
2/21/2017					<0.005		
3/1/2017							0.0004 (J)
3/2/2017		0.0014 (J)	<0.005			<0.005	
3/3/2017				0.0016 (J)			
3/8/2017	<0.005						
4/26/2017	<0.005				<0.005	<0.005	<0.005
4/27/2017		0.0018 (J)	<0.005				
4/28/2017				0.002 (J)			
5/26/2017				0.0005 (J)			
6/27/2017		0.0018 (J)	<0.005				
6/28/2017				0.0016 (J)		0.0007 (J)	0.0011 (J)
6/30/2017	<0.005				<0.005		
3/27/2018	<0.005		<0.005		<0.005		
3/28/2018				0.0013 (J)		<0.005	<0.005
3/29/2018		0.0017 (J)					
6/5/2018		0.0013 (J)					
6/6/2018			<0.005				
6/7/2018				0.00082 (J)		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					<0.005		
10/1/2018	<0.005	0.0016 (J)	<0.005	0.0011 (J)		<0.005	<0.005
10/2/2018					<0.005		
2/26/2019	<0.005				<0.005		
2/27/2019		0.0015 (J)	<0.005	0.001 (J)		<0.005	<0.005
3/28/2019		0.00072 (J)	<0.005				
3/29/2019	<0.005			0.00063 (J)			
4/1/2019					<0.005	<0.005	<0.005
9/24/2019		0.0014 (J)	<0.005	<0.005			
9/25/2019	<0.005				<0.005	<0.005	<0.005
2/10/2020		0.0026 (J)	0.0005 (J)				
2/11/2020				0.0044 (J)			0.0041 (J)
2/12/2020	<0.005				0.0032 (J)	0.0038 (J)	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00095 (J)		0.00066 (J)	<0.005	<0.005	<0.005
9/23/2020		0.0011 (J)	<0.005	0.001 (J)		<0.005	<0.005
9/24/2020					<0.005		
9/25/2020	<0.005						

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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	
8/30/2016	<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	
11/14/2016	<0.005						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<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					
5/8/2017	<0.005						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	0.0007 (J)						
10/11/2017							0.0009 (J)
11/20/2017							<0.005
1/11/2018							<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)	
4/2/2018	<0.005						
4/3/2018							<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
8/7/2018							<0.005
9/19/2018	0.00072 (J)						
9/24/2018							<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		
8/20/2019	<0.005						
8/21/2019							0.00058 (J)
9/24/2019						0.0026 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	<0.005						
10/9/2019							0.00063 (J)
2/11/2020		0.0022 (J)	0.0014 (J)	0.0026 (J)			

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0025 (J)	0.00058 (J)
3/17/2020	<0.005						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0013 (J)	
3/25/2020							0.0012 (J)
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0014 (J)	<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					<0.005
9/11/2007					<0.005
3/20/2008					<0.005
8/27/2008					<0.005
3/3/2009					<0.005
11/18/2009					<0.005
3/3/2010					<0.005
9/8/2010					<0.005
3/10/2011					<0.005
9/8/2011					<0.005
3/5/2012					<0.005
9/10/2012					<0.005
2/6/2013					<0.005
8/12/2013					<0.005
2/5/2014					<0.005
8/5/2014					<0.005
2/4/2015					<0.005
8/3/2015					<0.005
2/16/2016					<0.005
6/2/2016		<0.005	0.00071 (J)	<0.005	
7/26/2016		<0.005	0.001 (J)	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<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
6/27/2017			0.0019 (J)	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	<0.005				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	0.0006 (J)	<0.005	
4/3/2018	<0.005				
6/6/2018			0.0013 (J)		
6/7/2018		0.00059 (J)		<0.005	
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	0.0014 (J)	<0.005	
2/25/2019					<0.005

Time Series

Constituent: Arsenic (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					0.00038 (J)
8/19/2019					0.00095 (J)
8/21/2019	<0.005				
9/24/2019			0.00043 (J)	<0.005	
9/25/2019		<0.005			
10/8/2019					<0.005
10/9/2019	<0.005				
2/12/2020	0.0034 (J)	<0.005	0.0046 (J)	0.002 (J)	
3/17/2020					<0.005
3/24/2020	<0.005		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				

Time Series

Constituent: Barium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.008	0.012				0.0038
6/2/2016	0.0081				0.0064	0.01	
7/25/2016			0.0091 (J)		0.0071 (J)		0.0031 (J)
7/26/2016	0.0082 (J)	0.006 (J)				0.0088 (J)	
9/13/2016		0.0084 (J)	0.008 (J)				
9/14/2016				0.0037 (J)			0.0027 (J)
9/15/2016	0.0087 (J)					0.009 (J)	
9/19/2016					0.0069 (J)		
11/1/2016		0.0062 (J)			0.007 (J)	0.0079 (J)	0.0027 (J)
11/2/2016	0.0082 (J)						
11/4/2016			0.0067 (J)	0.0059 (J)			
12/15/2016				0.0056 (J)			
1/10/2017	0.0086 (J)						
1/11/2017		0.0069 (J)				0.0075 (J)	0.0036 (J)
1/16/2017			0.0096 (J)	0.0049 (J)	0.0071 (J)		
2/21/2017					0.0077 (J)		
3/1/2017							0.0036 (J)
3/2/2017		0.0071 (J)	0.0112			0.009 (J)	
3/3/2017				0.0046 (J)			
3/8/2017	0.0088 (J)						
4/26/2017	0.0085 (J)				0.0074 (J)	0.0078 (J)	0.0038 (J)
4/27/2017		0.0064 (J)	0.0106				
4/28/2017				0.0039 (J)			
5/26/2017				0.0034 (J)			
6/27/2017		0.0054 (J)	0.0092 (J)				
6/28/2017				0.003 (J)		0.0071 (J)	0.004 (J)
6/30/2017	0.0081 (J)				0.0076 (J)		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
6/5/2018		0.0069 (J)					
6/6/2018			0.0082 (J)				
6/7/2018				0.0037 (J)		0.0068 (J)	
6/8/2018	0.007 (J)						0.0034 (J)
6/11/2018					0.007 (J)		
10/1/2018	0.007 (J)	0.0062 (J)	0.0084 (J)	0.0038 (J)		0.0065 (J)	0.0034 (J)
10/2/2018					0.0069 (J)		
2/26/2019	0.0067 (J)				0.007 (J)		
2/27/2019		0.0074 (J)	0.008 (J)	0.0035 (J)		0.0059 (J)	0.0034 (J)
3/28/2019		0.0082 (J)	0.0082 (J)				
3/29/2019	0.0066 (J)			0.0039 (J)			
4/1/2019					0.0072 (J)	0.0064 (J)	0.003 (J)
9/24/2019		0.0072 (J)	0.0086 (J)	0.0038 (J)			
9/25/2019	0.0071 (J)				0.0066 (J)	0.0059 (J)	0.005 (J)
2/10/2020		0.0066 (J)	0.0091 (J)				
2/11/2020				0.0036 (J)			0.0031 (J)
2/12/2020	0.007 (J)				0.0073 (J)	0.0062 (J)	
3/18/2020	0.0076 (J)		0.0084 (J)				
3/19/2020		0.0076 (J)		0.0036 (J)	0.0074 (J)	0.0072 (J)	0.0029 (J)
9/23/2020		0.0068 (J)	0.0079 (J)	0.0039 (J)		0.0051 (J)	0.0039 (J)
9/24/2020					0.0062 (J)		
9/25/2020	0.0073 (J)						

Time Series

Constituent: Barium (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
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

Time Series

Constituent: Barium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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)	
8/30/2016	0.0413						
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)	
11/14/2016	0.0383						
1/11/2017		0.0142	0.0266	0.0162			
1/13/2017					0.0158	0.0105	
2/24/2017	0.0351						
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					
5/8/2017	0.0251						
6/28/2017			0.0237	0.018			
6/29/2017		0.0128			0.017	0.0109	
7/11/2017	0.0233						
10/10/2017	0.0207						
10/11/2017							0.0092 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0077 (J)
2/20/2018							<0.01
3/28/2018		0.014	0.024	0.021			
3/29/2018					0.014	<0.01	
4/2/2018	0.022						
4/3/2018							<0.01
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)
8/7/2018							0.0078 (J)
9/19/2018	0.023						
9/24/2018							0.0071 (J)
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		
8/20/2019	0.024						
8/21/2019							0.015
9/24/2019						0.011	
9/25/2019		0.015			0.014		
9/26/2019			0.021	0.017			
10/8/2019	0.025						
10/9/2019							0.013
2/11/2020		0.015	0.022	0.019			

Time Series

Constituent: Barium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					0.014	0.011	0.011
3/17/2020	0.035						
3/24/2020		0.015	0.021	0.017	0.015	0.011	
3/25/2020							0.014
8/27/2020	0.027						
9/22/2020	0.026						
9/23/2020		0.015	0.021	0.016			
9/24/2020					0.015	0.01	0.016

Time Series

Constituent: Barium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					0.032
9/11/2007					0.017
3/20/2008					0.025
8/27/2008					0.041
3/3/2009					0.053
11/18/2009					0.05
3/3/2010					0.061
9/8/2010					0.071
3/10/2011					0.057
9/8/2011					0.057
3/5/2012					0.061
9/10/2012					0.055
2/6/2013					0.061
8/12/2013					0.055
2/5/2014					0.063
8/5/2014					0.038
2/4/2015					0.039
8/3/2015					0.031
2/16/2016					0.045
6/2/2016		0.013	0.0084	0.019	
7/26/2016		0.0158	0.01	0.0179	
8/31/2016					0.0542
9/14/2016		0.0143	0.0085 (J)	0.0181	
11/2/2016		0.0148	0.0091 (J)		
11/4/2016				0.0165	
11/28/2016					0.0529
1/12/2017			0.0089 (J)	0.0199	
1/13/2017		0.0146			
2/22/2017					0.0607
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
6/27/2017			0.0074 (J)	0.0184	
6/29/2017		0.0154			
7/17/2017					0.06
10/12/2017	0.0328				
10/16/2017					0.0542
11/20/2017	0.0671				
1/10/2018	0.0656				
2/19/2018	0.0598				0.0533
3/29/2018		0.014	<0.01	0.021	
4/3/2018	0.045				
6/6/2018			0.008 (J)		
6/7/2018		0.014		0.019	
6/28/2018	0.047				
8/6/2018					0.044
8/7/2018	0.048				
9/24/2018	0.042				
9/26/2018		0.02	0.0075 (J)	0.019	
2/25/2019					0.045

Time Series

Constituent: Barium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		0.016	0.0077 (J)	0.019	
4/3/2019		0.017	0.0087 (J)	0.023	
6/12/2019					0.063
8/19/2019					0.065
8/21/2019	0.035				
9/24/2019			0.0075 (J)	0.019	
9/25/2019		0.015			
10/8/2019					0.058
10/9/2019	0.036				
2/12/2020	0.035	0.012	0.0079 (J)	0.021	
3/17/2020					0.047
3/24/2020	0.033		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	0.028				

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.003	<0.003				<0.003
6/2/2016	<0.003				<0.003	<0.003	
7/25/2016			<0.003		<0.003		<0.003
7/26/2016	0.0002 (J)	<0.003				<0.003	
9/13/2016		<0.003	<0.003				
9/14/2016				<0.003			<0.003
9/15/2016	0.0002 (J)					<0.003	
9/19/2016					<0.003		
11/1/2016		<0.003			<0.003	<0.003	<0.003
11/2/2016	0.0002 (J)						
11/4/2016			<0.003	<0.003			
12/15/2016				<0.003			
1/10/2017	0.0002 (J)						
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		<0.003	<0.003			<0.003	
3/3/2017				<0.003			
3/8/2017	0.0002 (J)						
4/26/2017	0.0002 (J)				<0.003	<0.003	<0.003
4/27/2017		<0.003	<0.003				
4/28/2017				<0.003			
5/26/2017				<0.003			
6/27/2017		<0.003	<0.003				
6/28/2017				<0.003		<0.003	<0.003
6/30/2017	0.0002 (J)				<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	0.00016 (J)				7.2E-05 (J)		
2/27/2019		<0.003	<0.003	<0.003		<0.003	<0.003
3/28/2019		<0.003	<0.003				
3/29/2019	0.00017 (J)			<0.003			
4/1/2019					<0.003	<0.003	<0.003
9/24/2019		<0.003	<0.003	<0.003			
9/25/2019	0.00018 (J)				<0.003	<0.003	<0.003
2/10/2020		<0.003	<0.003				
2/11/2020				<0.003			<0.003
2/12/2020	0.00019 (J)				<0.003	<0.003	
3/18/2020	0.00021 (J)		<0.003				
3/19/2020		<0.003		<0.003	<0.003	<0.003	<0.003
9/23/2020		<0.003	<0.003	<0.003		<0.003	5.9E-05 (J)
9/24/2020					<0.003		
9/25/2020	0.00018 (J)						

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.003	<0.003	<0.003	<0.003			
6/9/2016					<0.003	<0.003	<0.003
8/1/2016	<0.003	0.0002 (J)	<0.003	<0.003			
8/2/2016					<0.003	<0.003	<0.003
9/20/2016	<0.003	0.0001 (J)	9E-05 (J)	<0.003			
9/21/2016					<0.003	<0.003	<0.003
11/7/2016	<0.003	0.0001 (J)	0.0001 (J)	<0.003		<0.003	<0.003
11/8/2016					<0.003		
1/18/2017	<0.003	0.0002 (J)	0.0002 (J)		<0.003	<0.003	
1/19/2017				<0.003			<0.003
2/21/2017	<0.003	0.0002 (J)				<0.003	
2/22/2017				<0.003	<0.003		<0.003
2/23/2017			0.0002 (J)				
5/3/2017		0.0002 (J)					
5/5/2017					<0.003	<0.003	
5/8/2017	<0.003		0.0002 (J)	<0.003			<0.003
6/30/2017			0.0002 (J)	<0.003			
7/5/2017					<0.003		<0.003
7/7/2017						<0.003	
7/10/2017	<0.003	0.0002 (J)					
3/29/2018			<0.003	<0.003			<0.003
3/30/2018	<0.003	<0.003			<0.003	<0.003	
2/27/2019	<0.003	0.00018 (J)	0.00022 (J)	<0.003	<0.003	<0.003	<0.003
4/1/2019			0.00022 (J)	<0.003	<0.003		<0.003
4/2/2019	<0.003	0.00015 (J)				<0.003	
9/25/2019	<0.003	0.00011 (J)					<0.003
9/26/2019			0.0002 (J)	<0.003	<0.003	<0.003	
2/13/2020	<0.003	0.00015 (J)	0.00021 (J)	<0.003	<0.003	<0.003	<0.003
3/19/2020		0.00012 (J)			<0.003	<0.003	
3/20/2020	<0.003		0.00023 (J)	<0.003			<0.003
9/24/2020	<0.003	8.5E-05 (J)	0.00019 (J)	<0.003	<0.003	<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.003	<0.003			
6/7/2016		<0.003			<0.003	<0.003	
7/27/2016		<0.003	<0.003	<0.003	<0.003		
7/28/2016						<0.003	
8/30/2016	<0.003						
9/16/2016		<0.003		<0.003			
9/19/2016			<0.003		<0.003	<0.003	
11/2/2016					<0.003		
11/3/2016		<0.003	<0.003	<0.003			<0.003
11/14/2016	<0.003						
1/11/2017		<0.003	<0.003	<0.003			
1/13/2017					<0.003	<0.003	
2/24/2017	<0.003						
3/1/2017			<0.003	<0.003			
3/2/2017		8E-05 (J)					
3/6/2017					<0.003	<0.003	
4/26/2017			<0.003	<0.003	<0.003	<0.003	
5/2/2017		<0.003					
5/8/2017	7E-05 (J)						
6/28/2017			<0.003	<0.003			
6/29/2017		<0.003			<0.003	<0.003	
7/11/2017	<0.003						
10/10/2017	<0.003						
10/11/2017							<0.003
11/20/2017							<0.003
1/11/2018							<0.003
2/20/2018							<0.003
3/28/2018		<0.003	<0.003	<0.003			
3/29/2018					<0.003	<0.003	
4/2/2018	<0.003						
4/3/2018							<0.003
6/5/2018						<0.003	
6/6/2018					8E-05 (J)		
6/7/2018			<0.003				
6/11/2018		9E-05 (J)		5.7E-05 (J)			
6/28/2018							<0.003
8/7/2018							<0.003
9/19/2018	5.7E-05 (J)						
9/24/2018							<0.003
9/25/2018		8.9E-05 (J)	<0.003	8.2E-05 (J)	6.1E-05 (J)	<0.003	
3/5/2019		9.1E-05 (J)		7.9E-05 (J)	0.00011 (J)	<0.003	
3/6/2019			<0.003				
4/2/2019		9E-05 (J)				<0.003	
4/3/2019			<0.003	7.5E-05 (J)	6.4E-05 (J)		
8/20/2019	<0.003						
8/21/2019							<0.003
9/24/2019						<0.003	
9/25/2019		8.1E-05 (J)			<0.003		
9/26/2019			<0.003	8.4E-05 (J)			
10/9/2019							<0.003
2/11/2020		7.8E-05 (J)	<0.003	7.6E-05 (J)			
2/12/2020					7.8E-05 (J)	<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		8E-05 (J)	<0.003	8.9E-05 (J)	7.6E-05 (J)	<0.003	
3/25/2020							<0.003
8/27/2020	4.7E-05 (J)						
9/22/2020	<0.003						
9/23/2020		8.1E-05 (J)	<0.003	8.8E-05 (J)			
9/24/2020					8.3E-05 (J)	<0.003	<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					<0.003
9/11/2007					<0.003
3/20/2008					<0.003
8/27/2008					<0.003
3/3/2009					<0.003
11/18/2009					<0.003
3/3/2010					<0.003
9/8/2010					<0.003
3/10/2011					<0.003
9/8/2011					<0.003
3/5/2012					<0.003
9/10/2012					<0.003
2/6/2013					<0.003
8/12/2013					<0.003
2/5/2014					<0.003
8/5/2014					<0.003
2/4/2015					<0.003
8/3/2015					<0.003
2/16/2016					<0.003
6/2/2016		<0.003	<0.003	<0.003	
7/26/2016		<0.003	<0.003	<0.003	
8/31/2016					<0.003
9/14/2016		<0.003	<0.003	<0.003	
11/2/2016		<0.003	<0.003		
11/4/2016				<0.003	
11/28/2016					<0.003
1/12/2017			<0.003	<0.003	
1/13/2017		<0.003			
2/22/2017					<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
6/27/2017			<0.003	<0.003	
6/29/2017		<0.003			
7/17/2017					<0.003
10/12/2017	0.0002 (J)				
10/16/2017					<0.003
11/20/2017	0.0003 (J)				
1/10/2018	0.0003 (J)				
2/19/2018	<0.003				<0.003
3/29/2018		<0.003	<0.003	<0.003	
4/3/2018	<0.003				
6/6/2018			<0.003		
6/7/2018		<0.003		<0.003	
6/28/2018	0.00029 (J)				
8/6/2018					<0.003
8/7/2018	0.00024 (J)				
9/24/2018	0.00019 (J)				
9/26/2018		<0.003	<0.003	<0.003	
2/25/2019					<0.003

Time Series

Constituent: Beryllium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.003	<0.003	<0.003	
4/3/2019		<0.003	<0.003	<0.003	
6/12/2019					<0.003
8/19/2019					<0.003
8/21/2019	0.0002 (J)				
9/24/2019			<0.003	<0.003	
9/25/2019		<0.003			
10/8/2019					<0.003
10/9/2019	0.0002 (J)				
2/12/2020	0.00018 (J)	<0.003	<0.003	<0.003	
3/17/2020					<0.003
3/24/2020	0.00022 (J)		<0.003	<0.003	
3/25/2020		<0.003			
8/26/2020					<0.003
9/22/2020		<0.003	<0.003	<0.003	<0.003
9/24/2020	0.0002 (J)				

Time Series

Constituent: Boron (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.1	<0.1				<0.1
6/2/2016	<0.1				<0.1	<0.1	
7/25/2016			<0.1		<0.1		<0.1
7/26/2016	0.0177 (J)	0.0055 (J)				0.0097 (J)	
9/13/2016		<0.1	<0.1				
9/14/2016				<0.1			<0.1
9/15/2016	0.0214 (J)					0.0102 (J)	
9/19/2016					<0.1		
11/1/2016		0.0086 (J)			<0.1	<0.1	<0.1
11/2/2016	<0.1						
11/4/2016			<0.1	<0.1			
12/15/2016				0.0107 (J)			
1/10/2017	0.0198 (J)						
1/11/2017		0.0074 (J)				<0.1	<0.1
1/16/2017			<0.1	<0.1	<0.1		
2/21/2017					<0.1		
3/1/2017							<0.1
3/2/2017		0.008 (J)	<0.1			0.0084 (J)	
3/3/2017				<0.1			
3/8/2017	0.0189 (J)						
4/26/2017	0.0161 (J)				<0.1	<0.1	<0.1
4/27/2017		0.0066 (J)	<0.1				
4/28/2017				<0.1			
5/26/2017				<0.1			
6/27/2017		0.0087 (J)	0.006 (J)				
6/28/2017				<0.1		<0.1	<0.1
6/30/2017	0.0173 (J)				<0.1		
10/3/2017		0.0072 (J)	0.0071 (J)	<0.1			
10/4/2017					<0.1	<0.1	<0.1
10/5/2017	0.0173 (J)						
6/5/2018		0.0052 (J)					
6/6/2018			<0.1				
6/7/2018				<0.1		0.004 (J)	
6/8/2018	0.013 (J)						<0.1
6/11/2018					0.014 (J)		
10/1/2018	0.015 (J)	0.021 (J)	0.0049 (J)	<0.1		<0.1	<0.1
10/2/2018					<0.1		
3/28/2019		0.005 (J)	<0.1				
3/29/2019	0.014 (J)			0.0065 (J)			
4/1/2019					<0.1	<0.1	<0.1
9/24/2019		0.0064 (J)	0.0055 (J)	0.0076 (J)			
9/25/2019	0.018 (J)				<0.1	0.0054 (J)	<0.1
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		<0.1	<0.1	<0.1		0.012 (J)	0.0073 (J)
9/24/2020					0.0075 (J)		
9/25/2020	0.02 (J)						

Time Series

Constituent: Boron (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.97	0.62	2.2	1.3			
6/9/2016					2.2	2.3	0.88
8/1/2016	0.932	0.643	2	1.36			
8/2/2016					2.22	2.21	0.872
9/20/2016	1.04	0.644	2.02	1.69			
9/21/2016					2.65	2.54	0.853
11/7/2016	0.852	0.621	1.91	1.35		2.49	0.815
11/8/2016					2.44		
1/18/2017	0.972	0.607	1.69		1.88	2.04	
1/19/2017				1.15			0.803
2/21/2017	0.972	0.624				2.29	
2/22/2017				1.3	2.05		0.855
2/23/2017			1.76				
5/3/2017		0.676					
5/5/2017					3.01	3.41	
5/8/2017	1.05		2	1.51			0.884
6/30/2017			2.28	1.47			
7/5/2017					2.7		0.811
7/7/2017						3.01	
7/10/2017	0.855	0.58					
10/5/2017					2.53		0.851
10/6/2017				1.31			
10/9/2017			1.82			2.76	
10/10/2017	0.887	0.612					
6/11/2018							0.9
6/12/2018				1.6	2.8	2.9	
6/13/2018	0.86	0.67	2.2				
10/2/2018	0.93	0.62	1.9	1.4			0.81
10/3/2018					2.3	2.4	
4/1/2019			2.4	1.4	2.7		0.85
4/2/2019	0.9	0.63				2.9	
9/25/2019	0.86	0.63					0.73
9/26/2019			1.9	1.5	2.8	2.5	
3/19/2020		0.73			2.4	2.5	
3/20/2020	0.94		2.1	1.4			0.8
9/24/2020	0.76	0.74	2.3	1.3	2.1	2.6	0.84

Time Series

Constituent: Boron (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	0.0076 (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)

Time Series

Constituent: Boron (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.1	<0.1	<0.1	
7/26/2016		0.0047 (J)	0.0052 (J)	<0.1	
8/31/2016					0.0315 (J)
9/14/2016		<0.1	0.0071 (J)	0.01 (J)	
11/2/2016		<0.1	<0.1		
11/4/2016				<0.1	
11/28/2016					0.0095 (J)
1/12/2017			0.0076 (J)	<0.1	
1/13/2017		<0.1			
2/22/2017					<0.1
3/6/2017		<0.1			
3/7/2017			0.0089 (J)	<0.1	
5/1/2017		<0.1	0.0061 (J)		
5/2/2017				<0.1	
5/8/2017					0.0084 (J)
6/27/2017			0.0079 (J)	<0.1	
6/29/2017		<0.1			
7/17/2017					0.0092 (J)
10/3/2017			0.0094 (J)	<0.1	
10/5/2017		<0.1			
10/12/2017	0.0401				
10/16/2017					<0.1
11/20/2017	0.156				
1/10/2018	0.15				
2/19/2018	0.146				<0.1
4/3/2018	0.12				
6/6/2018			0.0098 (J)		
6/7/2018		0.0045 (J)		<0.1	
6/28/2018	0.16				
8/6/2018					<0.1
8/7/2018	0.12				
9/24/2018	0.099				
9/26/2018		0.005 (J)	0.01 (J)	0.0057 (J)	
2/25/2019					<0.1
3/26/2019	0.096				
4/3/2019		0.0055 (J)	0.0076 (J)	0.0044 (J)	
6/12/2019					<0.1
9/24/2019			0.01 (J)	0.0049 (J)	
9/25/2019		<0.1			
10/8/2019					<0.1
10/9/2019	0.079				
3/17/2020					0.0051 (J)
3/24/2020	0.088 (J)		0.011 (J)	0.0068 (J)	
3/25/2020		0.011 (J)			
9/22/2020		<0.1	0.0079 (J)	0.0053 (J)	0.0079 (J)
9/24/2020	0.087 (J)				

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0025	<0.0025				<0.0025
6/2/2016	<0.0025				<0.0025	<0.0025	
7/25/2016			<0.0025		<0.0025		<0.0025
7/26/2016	<0.0025	<0.0025				<0.0025	
9/13/2016		<0.0025	<0.0025				
9/14/2016				<0.0025			<0.0025
9/15/2016	<0.0025					<0.0025	
9/19/2016					<0.0025		
11/1/2016		<0.0025			<0.0025	<0.0025	<0.0025
11/2/2016	<0.0025						
11/4/2016			<0.0025	<0.0025			
12/15/2016				<0.0025			
1/10/2017	<0.0025						
1/11/2017		0.0002 (J)				0.0001 (J)	8E-05 (J)
1/16/2017			<0.0025	<0.0025	<0.0025		
2/21/2017					<0.0025		
3/1/2017							<0.0025
3/2/2017		<0.0025	<0.0025			<0.0025	
3/3/2017				<0.0025			
3/8/2017	7E-05 (J)						
4/26/2017	<0.0025				<0.0025	<0.0025	<0.0025
4/27/2017		<0.0025	<0.0025				
4/28/2017				<0.0025			
5/26/2017				<0.0025			
6/27/2017		<0.0025	<0.0025				
6/28/2017				<0.0025		<0.0025	<0.0025
6/30/2017	<0.0025				<0.0025		
3/27/2018	<0.0025		<0.0025		<0.0025		
3/28/2018				<0.0025		<0.0025	<0.0025
3/29/2018		<0.0025					
2/26/2019	<0.0025				<0.0025		
2/27/2019		<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
3/28/2019		<0.0025	<0.0025				
3/29/2019	<0.0025			<0.0025			
4/1/2019					<0.0025	<0.0025	<0.0025
9/24/2019		<0.0025	<0.0025	<0.0025			
9/25/2019	<0.0025				<0.0025	<0.0025	<0.0025
2/10/2020		<0.0025	<0.0025				
2/11/2020				<0.0025			<0.0025
2/12/2020	<0.0025				<0.0025	<0.0025	
3/18/2020	<0.0025		<0.0025				
3/19/2020		<0.0025		<0.0025	<0.0025	<0.0025	<0.0025
9/23/2020		<0.0025	<0.0025	<0.0025		<0.0025	<0.0025
9/24/2020					<0.0025		
9/25/2020	<0.0025						

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.0025	<0.0025	<0.0025	<0.0025			
6/9/2016					0.00055 (J)	<0.0025	<0.0025
8/1/2016	<0.0025	<0.0025	<0.0025	<0.0025			
8/2/2016					0.0001 (J)	<0.0025	0.0001 (J)
9/20/2016	<0.0025	<0.0025	<0.0025	<0.0025			
9/21/2016					0.0001 (J)	<0.0025	0.0002 (J)
11/7/2016	<0.0025	<0.0025	<0.0025	<0.0025		<0.0025	0.0002 (J)
11/8/2016					9E-05 (J)		
1/18/2017	<0.0025	<0.0025	<0.0025		9E-05 (J)	<0.0025	
1/19/2017				<0.0025			0.0001 (J)
2/21/2017	<0.0025	<0.0025				<0.0025	
2/22/2017				<0.0025	0.0001 (J)		0.0001 (J)
2/23/2017			<0.0025				
5/3/2017		<0.0025					
5/5/2017					9E-05 (J)	<0.0025	
5/8/2017	<0.0025		<0.0025	<0.0025			0.0002 (J)
6/30/2017			<0.0025	<0.0025			
7/5/2017					0.0002 (J)		0.0002 (J)
7/7/2017						<0.0025	
7/10/2017	<0.0025	<0.0025					
3/29/2018			<0.0025	<0.0025			<0.0025
3/30/2018	<0.0025	<0.0025			<0.0025	<0.0025	
2/27/2019	<0.0025	<0.0025	<0.0025	<0.0025	0.00014 (J)	<0.0025	0.00026 (J)
4/1/2019			<0.0025	<0.0025	0.00043 (J)		0.00022 (J)
4/2/2019	<0.0025	<0.0025				<0.0025	
9/25/2019	<0.0025	<0.0025					0.00024 (J)
9/26/2019			<0.0025	<0.0025	<0.0025	<0.0025	
2/13/2020	<0.0025	<0.0025	<0.0025	<0.0025	0.00013 (J)	<0.0025	0.00018 (J)
3/19/2020		<0.0025			0.00016 (J)	<0.0025	
3/20/2020	<0.0025		<0.0025	<0.0025			0.00022 (J)
9/24/2020	<0.0025	<0.0025	<0.0025	<0.0025	0.00027 (J)	<0.0025	0.00033 (J)

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0025	<0.0025			
6/7/2016		<0.0025			<0.0025	<0.0025	
7/27/2016		<0.0025	<0.0025	<0.0025	<0.0025		
7/28/2016						<0.0025	
8/30/2016	0.0001 (J)						
9/16/2016		<0.0025		<0.0025			
9/19/2016			<0.0025		<0.0025	<0.0025	
11/2/2016					<0.0025		
11/3/2016		<0.0025	<0.0025	<0.0025			<0.0025
11/14/2016	0.0001 (J)						
1/11/2017		0.0001 (J)	<0.0025	0.0001 (J)			
1/13/2017					<0.0025	<0.0025	
2/24/2017	9E-05 (J)						
3/1/2017			<0.0025	<0.0025			
3/2/2017		<0.0025					
3/6/2017					<0.0025	<0.0025	
4/26/2017			<0.0025	<0.0025	<0.0025	<0.0025	
5/2/2017		<0.0025					
5/8/2017	0.0001 (J)						
6/28/2017			<0.0025	<0.0025			
6/29/2017		<0.0025			<0.0025	<0.0025	
7/11/2017	<0.0025						
10/10/2017	<0.0025						
10/11/2017							<0.0025
11/20/2017							<0.0025
1/11/2018							<0.0025
2/20/2018							<0.0025
3/28/2018		<0.0025	<0.0025	<0.0025			
3/29/2018					<0.0025	<0.0025	
4/2/2018	<0.0025						
4/3/2018							<0.0025
6/5/2018						<0.0025	
6/6/2018					<0.0025		
6/7/2018			<0.0025				
6/11/2018		<0.0025		<0.0025			
6/28/2018							<0.0025
8/7/2018							<0.0025
9/19/2018	<0.0025						
9/24/2018							<0.0025
9/25/2018		<0.0025	<0.0025	<0.0025	<0.0025	9.6E-05 (J)	
3/5/2019		<0.0025		<0.0025	<0.0025	<0.0025	
3/6/2019			<0.0025				
4/2/2019		<0.0025				<0.0025	
4/3/2019			<0.0025	<0.0025	<0.0025		
8/20/2019	<0.0025						
8/21/2019							<0.0025
9/24/2019						<0.0025	
9/25/2019		<0.0025			<0.0025		
9/26/2019			<0.0025	<0.0025			
10/8/2019	<0.0025						
10/9/2019							<0.0025
2/11/2020		<0.0025	<0.0025	<0.0025			

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.0025	<0.0025	<0.0025
3/17/2020	<0.0025						
3/24/2020		<0.0025	<0.0025	<0.0025	<0.0025	<0.0025	
3/25/2020							<0.0025
8/27/2020	<0.0025						
9/23/2020		<0.0025	<0.0025	<0.0025			
9/24/2020					<0.0025	<0.0025	<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					<0.0025
9/11/2007					<0.0025
3/20/2008					<0.0025
8/27/2008					<0.0025
3/3/2009					<0.0025
11/18/2009					<0.0025
3/3/2010					<0.0025
9/8/2010					<0.0025
3/10/2011					<0.0025
9/8/2011					<0.0025
3/5/2012					<0.0025
9/10/2012					<0.0025
2/6/2013					<0.0025
8/12/2013					<0.0025
2/5/2014					<0.0025
8/5/2014					<0.0025
2/4/2015					<0.0025
8/3/2015					<0.0025
2/16/2016					<0.0025
6/2/2016		<0.0025	<0.0025	<0.0025	
7/26/2016		<0.0025	<0.0025	<0.0025	
8/31/2016					<0.0025
9/14/2016		<0.0025	<0.0025	<0.0025	
11/2/2016		<0.0025	<0.0025		
11/4/2016				<0.0025	
11/28/2016					<0.0025
1/12/2017			<0.0025	9E-05 (J)	
1/13/2017		<0.0025			
2/22/2017					<0.0025
3/6/2017		<0.0025			
3/7/2017			<0.0025	<0.0025	
5/1/2017		<0.0025	<0.0025		
5/2/2017				<0.0025	
5/8/2017					<0.0025
6/27/2017			<0.0025	<0.0025	
6/29/2017		<0.0025			
7/17/2017					<0.0025
10/12/2017	<0.0025				
10/16/2017					<0.0025
11/20/2017	<0.0025				
1/10/2018	<0.0025				
2/19/2018	<0.0025				<0.0025
3/29/2018		<0.0025	<0.0025	<0.0025	
4/3/2018	<0.0025				
6/6/2018			<0.0025		
6/7/2018		<0.0025		<0.0025	
6/28/2018	<0.0025				
8/6/2018					<0.0025
8/7/2018	<0.0025				
9/24/2018	<0.0025				
9/26/2018		<0.0025	<0.0025	<0.0025	
2/25/2019					<0.0025

Time Series

Constituent: Cadmium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.0025	<0.0025	<0.0025	
4/3/2019		<0.0025	<0.0025	<0.0025	
6/12/2019					<0.0025
8/19/2019					<0.0025
8/21/2019	<0.0025				
9/24/2019			<0.0025	<0.0025	
9/25/2019		<0.0025			
10/8/2019					<0.0025
10/9/2019	<0.0025				
2/12/2020	<0.0025	<0.0025	<0.0025	<0.0025	
3/17/2020					<0.0025
3/24/2020	<0.0025		<0.0025	<0.0025	
3/25/2020		<0.0025			
8/26/2020					<0.0025
9/22/2020		<0.0025	<0.0025	<0.0025	<0.0025
9/24/2020	<0.0025				

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		12	2.5				21
6/2/2016	1.3				1.3	28	
7/25/2016			2.16		1.17		20.3
7/26/2016	1.24	11				24.5	
9/13/2016		11.8	2.21				
9/14/2016				23.5			19.7
9/15/2016	1.17					27	
9/19/2016					1.05		
11/1/2016		11			1.14	25.6	18.4
11/2/2016	1.23						
11/4/2016			2.67	23.7			
12/15/2016				23.1			
1/10/2017	1.24						
1/11/2017		11.2				27.5	20.3
1/16/2017			2.45	23.3	1.23		
2/21/2017					1.25		
3/1/2017							18.6
3/2/2017		11	2.57			27.5	
3/3/2017				25.1			
3/8/2017	1.21						
4/26/2017	1.14				1.03	30.4	25.6
4/27/2017		11.1	2.38				
4/28/2017				30.7			
5/26/2017				26.2			
6/27/2017		13.8	2.36				
6/28/2017				26.1		29.8	23.9
6/30/2017	1.24				1.13		
10/3/2017		14	2.21	26.7			
10/4/2017					1.09	29.7	22.1
10/5/2017	1.11						
6/5/2018		15.2 (J)					
6/6/2018			2.3				
6/7/2018				25		29.1	
6/8/2018	1.1						21.9 (J)
6/11/2018					1.1		
10/1/2018	0.99	15.1	1.8	25		26.9	19.7
10/2/2018					1.1		
3/28/2019		13.3 (J)	2.2				
3/29/2019	1.1			23.5 (J)			
4/1/2019					1.3	30.1	20.4 (J)
9/24/2019		15.8	2.3	26.4			
9/25/2019	1.1				1.1	29.5	22.4
3/18/2020	1.1		2.1				
3/19/2020		15		27.4	1.2	31.5	21.9
9/23/2020		14.1	1.8	26.3		28.6	23.6
9/24/2020					1.1		
9/25/2020	1.3						

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	15	13	25	44			
6/9/2016					36	26	12
8/1/2016	14.5	12.2	21.4	36.3			
8/2/2016					35.5	25.8	11.7
9/20/2016	15.3	12.2	26.3	39.5			
9/21/2016					33.2	24.9	11.1
11/7/2016	13.8	12.1	26.1	34.9		25.1	11.4
11/8/2016					33.8		
1/18/2017	15.1	11.5	25.6		33.4	26.1	
1/19/2017				37			12
2/21/2017	14.6	11.7				29	
2/22/2017				37.6	33.8		11.2
2/23/2017			28.2				
5/3/2017		11.9					
5/5/2017					33.5	28.1	
5/8/2017	15.2		27.2	35.7			11.2
6/30/2017			27.2	36.2			
7/5/2017					33.4		11.9
7/7/2017						28.6	
7/10/2017	17.4	12.7					
10/5/2017					36.4		12
10/6/2017				39.8			
10/9/2017			27.3			27.3	
10/10/2017	15.5	11.4					
6/11/2018							12.1
6/12/2018				36.2	33.4	26.4	
6/13/2018	15.5	12.5	29.4				
10/2/2018	14.7	12.4 (J)	29.2	39.1			11.7 (J)
10/3/2018					32.6	25.8	
4/1/2019			27.4	38	33.8		11.9 (J)
4/2/2019	16.1 (J)	11.9 (J)				25.7	
9/25/2019	15.6	11.6					10.7
9/26/2019			24.2	37.5	32	26.1	
3/19/2020		13			37.3	30.4	
3/20/2020	17.1		30.3	42.1			12.7
9/24/2020	16.9	11.3	27.9	38.6	34.3	30.8	12.4

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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	
8/30/2016	20.9						
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	
11/14/2016	18.6						
1/11/2017		2.28	4.74	1.25			
1/13/2017					2.45	4.98	
2/24/2017	16.1						
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					
5/8/2017	14.6						
6/28/2017			4.95	1.06			
6/29/2017		2.02			2.54	6.04	
7/11/2017	14.3						
10/3/2017						8.28	
10/4/2017		2.03		1.1	2.25		
10/5/2017			5.28				
10/10/2017	12.1						
10/11/2017							2.74
11/20/2017							1.81
1/11/2018							1.54
2/20/2018							1.71
4/2/2018	<25						
4/3/2018							1.4
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
8/7/2018							1.2
9/19/2018	11.1 (J)						
9/24/2018							1.1
9/25/2018		2.1	4.6	1	2.3	10.4 (J)	
3/27/2019	10.8 (J)						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			
10/8/2019	9.7						
10/9/2019							2.4
3/17/2020	14.8						
3/24/2020		2.7	5.3	1	2.6	6	
3/25/2020							2.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	10.1						
9/23/2020		2.6	5.2	0.91 (J)			
9/24/2020					2.6	7.8	3.7

Time Series

Constituent: Calcium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8.8	33	2.4	
7/26/2016		7.69	32.3	2.12	
8/31/2016					9.31
9/14/2016		8.49	31	2.18	
11/2/2016		7.83	30.9		
11/4/2016				2.17 (J)	
11/28/2016					9.47 (B)
1/12/2017			35.7	2.37	
1/13/2017		8.08			
2/22/2017					10.4
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
6/27/2017			36.5	2.13	
6/29/2017		8.81			
7/17/2017					14.1
10/3/2017			30.9	2.15	
10/5/2017		9.29			
10/12/2017	2.9				
10/16/2017					13.6
11/20/2017	10.4				
1/10/2018	10.2				
2/19/2018	<25				<25
4/3/2018	6.3				
6/6/2018			26.2		
6/7/2018		8.2		2.3	
6/28/2018	6.7				
8/6/2018					11.4 (J)
8/7/2018	6.3				
9/24/2018	5.7				
9/26/2018		9.5 (J)	25.8	2.3	
2/25/2019					12.7 (J)
3/26/2019	5.6				
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			
10/8/2019					28.3
10/9/2019	4.9				
3/17/2020					24.3
3/24/2020	4.8		26.1	2.5	
3/25/2020		10.5			
9/22/2020		9.6	27.2	2.6	31
9/24/2020	4.4				

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		1.3	1.6				1.3
6/2/2016	4.1				1.9	1.4	
7/25/2016			1.4		1.7		1.3
7/26/2016	4	1.2				1.6	
9/13/2016		1.1	1.3				
9/14/2016				1.1			1.3
9/15/2016	4.2					1.5	
9/19/2016					1.6		
11/1/2016		1.3			1.8	1.7	1.4
11/2/2016	4.9						
11/4/2016			1.6	1.4			
12/15/2016				2.9			
1/10/2017	4.1						
1/11/2017		1.1				1.2	1.1
1/16/2017			1.4	0.98	1.7		
2/21/2017					1.7		
3/1/2017							1.1
3/2/2017		1	1.3			1.2	
3/3/2017				1.1			
3/8/2017	4.2						
4/26/2017	4.1				1.7	1.2	1.1
4/27/2017		1	1.3				
4/28/2017				0.91			
5/26/2017				0.93			
6/27/2017		1.1	1.4				
6/28/2017				1		1.3	1.2
6/30/2017	3.7				1.8		
10/3/2017		1.1	1.7	1.2			
10/4/2017					1.8	1.5	1.2
10/5/2017	3.8						
6/5/2018		1.1					
6/6/2018			1.4				
6/7/2018				1		1.2	
6/8/2018	3.4						1.2
6/11/2018					2		
10/1/2018	3.8	1.1	1.4	1.1		1.5	1.2
10/2/2018					1.8		
3/28/2019		1.4	1.5				
3/29/2019	4.2			1.2			
4/1/2019					1.7	1.2	1.1
9/24/2019		1.1	1.3	0.95 (J)			
9/25/2019	4.8				1.6	1.1	1.1
3/18/2020	5.2		1.4				
3/19/2020		1.1		0.97 (J)	1.8	1.2	1.1
9/23/2020		0.99 (J)	1.2	0.88 (J)		1.1	1
9/24/2020					1.5		
9/25/2020	5.3						

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	19	18	14	22			
6/9/2016					18	19	15
8/1/2016	17	16	13	21			
8/2/2016					18	18	14
9/20/2016	18	18	13	22			
9/21/2016					18	19	14
11/7/2016	17	16	14	24		20	14
11/8/2016					18		
1/18/2017	19	17	14		18	20	
1/19/2017				22			14
2/21/2017	18	16				19	
2/22/2017				21	18		13
2/23/2017			14				
5/3/2017		17					
5/5/2017					19	21	
5/8/2017	18		14	22			15
6/30/2017			14	21			
7/5/2017					18		14
7/7/2017						20	
7/10/2017	19	15					
10/5/2017					19		15
10/6/2017				21			
10/9/2017			14			20	
10/10/2017	19	15					
6/11/2018							13.6
6/12/2018				19.8	17.6	19.3	
6/13/2018	18.1	14.2	13.1				
10/2/2018	18.3	14	13.8	19.9			13.4
10/3/2018					17.7	20.2	
4/1/2019			14.2	19.7	17.2		13.1
4/2/2019	17.9	13.5				19.5	
9/25/2019	17.1	14.4					11.3
9/26/2019			14.3	19.6	17.3	19.5	
3/19/2020		15.4			16	18.1	
3/20/2020	17.7		13	17.7			11.3
9/24/2020	17.1	15.7	13.3	17	15.1	18	10.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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	
8/30/2016	5.2						
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	
11/14/2016	6.4						
1/11/2017		4.7	6.5	6.1			
1/13/2017					2.3	2.5	
2/24/2017	5.5						
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					
5/8/2017	5.8						
6/28/2017			7	6.4			
6/29/2017		4.5			2.6	2.8	
7/11/2017	5.8						
10/3/2017						2.2	
10/4/2017		4.7		6.8	2.6		
10/5/2017			7				
10/10/2017	5.9						
10/11/2017							2.4
11/20/2017							1.8
1/11/2018							1.6
2/20/2018							2
4/2/2018	4.8						
4/3/2018							3.3
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
8/7/2018							1.2
9/19/2018	4						
9/24/2018							1.3
9/25/2018		5.6	7.9	7.8	3.6	2.2	
3/27/2019	4.3						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			
10/8/2019	4.4						
10/9/2019							2.1
3/17/2020	4.1						
3/24/2020		5	7	6.8	2.7	2.8	
3/25/2020							1.9

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	4.2						
9/23/2020		6.6	7.2	7.2			
9/24/2020					2.7	2	2.7

Time Series

Constituent: Chloride (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		3.7	7.2	4.3	
7/26/2016		3.6	6.6	4.4	
8/31/2016					4
9/14/2016		3.4	6.6	3.8	
11/2/2016		4.5	7.6		
11/4/2016				4.8	
11/28/2016					4.2
1/12/2017			6.8	3.8	
1/13/2017		4.2			
2/22/2017					3.7
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
6/27/2017			7	4.3	
6/29/2017		4.2			
7/17/2017					3.8
10/3/2017			6.5	4.2	
10/5/2017		4.7			
10/12/2017	3.8				
10/16/2017					4.2
11/20/2017	4.4				
1/10/2018	4.6				
2/19/2018	4.6				4.3
4/3/2018	5.9				
6/6/2018			4.7		
6/7/2018		4.4		4.5	
6/28/2018	5				
8/6/2018					3.8
8/7/2018	4.3				
9/24/2018	4.9				
9/26/2018		4.8	4.8	5.1	
2/25/2019					4.1
3/26/2019	4.4				
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			
10/8/2019					5.1
10/9/2019	5.1				
3/17/2020					4.8
3/24/2020	4.7		3.5	4.3	
3/25/2020		3.9			
9/22/2020		4.5	3.6	4.2	4.2
9/24/2020	5				

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.0035	<0.01				<0.01
6/2/2016	<0.01				<0.01	0.0013 (J)	
7/25/2016			<0.01		<0.01		<0.01
7/26/2016	<0.01	<0.01				<0.01	
9/13/2016		<0.01	<0.01				
9/14/2016				<0.01			<0.01
9/15/2016	<0.01					<0.01	
9/19/2016					<0.01		
11/1/2016		<0.01			<0.01	<0.01	<0.01
11/2/2016	<0.01						
11/4/2016			<0.01	<0.01			
12/15/2016				<0.01			
1/10/2017	<0.01						
1/11/2017		<0.01				<0.01	<0.01
1/16/2017			<0.01	<0.01	<0.01		
2/21/2017					<0.01		
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	<0.01						
4/26/2017	<0.01				0.0016 (J)	<0.01	<0.01
4/27/2017		<0.01	<0.01				
4/28/2017				0.0004 (J)			
5/26/2017				<0.01			
6/27/2017		<0.01	<0.01				
6/28/2017				<0.01		<0.01	<0.01
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
2/26/2019	<0.01				<0.01		
2/27/2019		<0.01	<0.01	<0.01		<0.01	<0.01
3/28/2019		<0.01	0.0021 (J)				
3/29/2019	<0.01			<0.01			
4/1/2019					<0.01	<0.01	<0.01
9/24/2019		0.00072 (J)	0.0028 (J)	<0.01			
9/25/2019	<0.01				<0.01	0.0014 (J)	0.0019 (J)
2/10/2020		0.00042 (J)	<0.01				
2/11/2020				<0.01			<0.01
2/12/2020	<0.01				<0.01	<0.01	
3/18/2020	<0.01		0.00044 (J)				
3/19/2020		0.00084 (J)		0.00048 (J)	<0.01	<0.01	<0.01
9/23/2020		0.00062 (J)	0.00058 (J)	<0.01		<0.01	<0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.01	<0.01	<0.01	<0.01			
6/9/2016					<0.01	<0.01	<0.01
8/1/2016	0.0008 (J)	0.0026 (J)	<0.01	<0.01			
8/2/2016					0.0005 (J)	0.0005 (J)	0.0005 (J)
9/20/2016	<0.01	0.001 (J)	<0.01	<0.01			
9/21/2016					<0.01	<0.01	<0.01
11/7/2016	<0.01	0.0013 (J)	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	0.002 (J)	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	<0.01	0.0019 (J)				<0.01	
2/22/2017				<0.01	<0.01		<0.01
2/23/2017			<0.01				
5/3/2017		0.0037 (J)					
5/5/2017					<0.01	<0.01	
5/8/2017	0.0006 (J)		<0.01	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					<0.01		<0.01
7/7/2017						<0.01	
7/10/2017	<0.01 (*)	<0.01 (*)					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
2/27/2019	0.0049 (J)	0.0055 (J)	<0.01	0.015	<0.01	<0.01	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	<0.01	0.003 (J)				<0.01	
9/25/2019	0.00048 (J)	0.0012 (J)					<0.01
9/26/2019			<0.01	<0.01	0.00044 (J)	<0.01	
2/13/2020	0.00044 (J)	0.0012 (J)	<0.01	<0.01	0.00047 (J)	<0.01	<0.01
3/19/2020		0.0018 (J)			<0.01	0.00049 (J)	
3/20/2020	0.0009 (J)		<0.01	0.0005 (J)			<0.01
9/24/2020	0.00067 (J)	0.00068 (J)	<0.01	0.00057 (J)	<0.01	0.0006 (J)	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			0.0012 (J)	<0.01			
6/7/2016		<0.01			<0.01	<0.01	
7/27/2016		0.0008 (J)	0.0007 (J)	0.0006 (J)	0.0005 (J)		
7/28/2016						<0.01	
8/30/2016	<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	
11/14/2016	0.0093 (J)						
1/11/2017		<0.01	<0.01	<0.01			
1/13/2017					<0.01	<0.01	
2/24/2017	<0.01						
3/1/2017			0.0012 (J)	<0.01			
3/2/2017		0.001 (J)					
3/6/2017					<0.01	<0.01	
4/26/2017			0.0005 (J)	0.0003 (J)	0.0007 (J)	<0.01	
5/2/2017		0.0007 (J)					
5/8/2017	<0.01						
6/28/2017			0.0006 (J)	<0.01			
6/29/2017		0.0006 (J)			0.0005 (J)	<0.01	
7/11/2017	<0.01						
10/10/2017	<0.01						
10/11/2017							<0.01
11/20/2017							<0.01
1/11/2018							<0.01
2/20/2018							<0.01
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					<0.01	<0.01	
4/2/2018	<0.01						
4/3/2018							<0.01
6/28/2018							<0.01
8/7/2018							<0.01
9/19/2018	<0.01						
9/24/2018							<0.01
3/5/2019		<0.01		<0.01	<0.01	<0.01	
3/6/2019			<0.01				
8/20/2019	<0.01						
8/21/2019							<0.01
10/9/2019							<0.01
2/11/2020		0.00087 (J)	0.001 (J)	0.00088 (J)			
2/12/2020					0.00045 (J)	<0.01	<0.01
3/24/2020		0.00087 (J)	0.00095 (J)	0.0011 (J)	0.00077 (J)	<0.01	
3/25/2020							<0.01
8/27/2020	<0.01						
9/22/2020	<0.01						
9/23/2020		0.00098 (J)	0.00092 (J)	0.0012 (J)			
9/24/2020					0.00076 (J)	<0.01	<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					0.0029
9/11/2007					0.0084
3/20/2008					0.0027
8/27/2008					0.0026
3/3/2009					0.0022
11/18/2009					0.0036
3/3/2010					<0.01
9/8/2010					<0.01
3/10/2011					<0.01
9/8/2011					<0.01
3/5/2012					<0.01
9/10/2012					<0.01
2/6/2013					<0.01
8/12/2013					<0.01
2/5/2014					0.0059
8/5/2014					<0.01
2/4/2015					<0.01
8/3/2015					0.0011 (J)
2/16/2016					<0.01
6/2/2016		<0.01	<0.01	<0.01	
7/26/2016		<0.01	<0.01	<0.01	
8/31/2016					<0.01
9/14/2016		<0.01	<0.01	<0.01	
11/2/2016		<0.01	<0.01		
11/4/2016				<0.01	
11/28/2016					<0.01
1/12/2017			<0.01	<0.01	
1/13/2017		<0.01			
2/22/2017					<0.01
3/6/2017		<0.01			
3/7/2017			<0.01	<0.01	
5/1/2017		<0.01	0.0004 (J)		
5/2/2017				<0.01	
5/8/2017					<0.01
6/27/2017			<0.01	<0.01	
6/29/2017		<0.01			
7/17/2017					<0.01
10/12/2017	<0.01				
10/16/2017					<0.01
11/20/2017	<0.01				
1/10/2018	<0.01				
2/19/2018	<0.01				<0.01
3/29/2018		<0.01	<0.01	<0.01	
4/3/2018	<0.01				
6/28/2018	<0.01				
8/6/2018					<0.01
8/7/2018	<0.01				
9/24/2018	<0.01				
2/25/2019					<0.01
3/4/2019		<0.01	<0.01	<0.01	
6/12/2019					<0.01
8/19/2019					<0.01

Time Series

Constituent: Chromium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	0.00053 (J)				
10/8/2019					<0.01
10/9/2019	0.0012 (J)				
2/12/2020	0.00065 (J)	<0.01	<0.01	0.00043 (J)	
3/17/2020					<0.01
3/24/2020	0.00055 (J)		<0.01	0.0014 (J)	
3/25/2020		0.00058 (J)			
8/26/2020					<0.01
9/22/2020		<0.01	0.0011 (J)	<0.01	<0.01
9/24/2020	<0.01				

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.005	0.00082 (J)				<0.005
6/2/2016	<0.005				0.035	<0.005	
7/25/2016			0.0008 (J)		0.0312		<0.005
7/26/2016	<0.005	<0.005				<0.005	
9/13/2016		<0.005	0.0009 (J)				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					<0.005	
9/19/2016					0.0275		
11/1/2016		<0.005			0.0255	<0.005	<0.005
11/2/2016	<0.005						
11/4/2016			0.0025 (J)	<0.005			
12/15/2016				<0.005			
1/10/2017	<0.005						
1/11/2017		<0.005				<0.005	<0.005
1/16/2017			0.0027 (J)	<0.005	0.0245		
2/21/2017					0.0272		
3/1/2017							<0.005
3/2/2017		<0.005	0.0022 (J)			<0.005	
3/3/2017				<0.005			
3/8/2017	<0.005						
4/26/2017	<0.005				0.0244	<0.005	<0.005
4/27/2017		<0.005	0.0018 (J)				
4/28/2017				<0.005			
5/26/2017				<0.005			
6/27/2017		<0.005	0.0023 (J)				
6/28/2017				<0.005		<0.005	<0.005
6/30/2017	<0.005				0.0233		
3/27/2018	<0.005		<0.005		0.023		
3/28/2018				<0.005		<0.005	<0.005
3/29/2018		<0.005					
6/5/2018		<0.005					
6/6/2018			<0.005				
6/7/2018				<0.005		<0.005	
6/8/2018	<0.005						<0.005
6/11/2018					0.023		
10/1/2018	<0.005	<0.005	0.00059 (J)	<0.005		<0.005	<0.005
10/2/2018					0.022		
2/26/2019	<0.005				0.021		
2/27/2019		<0.005	0.00064 (J)	<0.005		<0.005	<0.005
3/28/2019		<0.005	0.00091 (J)				
3/29/2019	<0.005			<0.005			
4/1/2019					0.022	<0.005	<0.005
9/24/2019		<0.005	0.0013 (J)	<0.005			
9/25/2019	<0.005				0.016	<0.005	<0.005
2/10/2020		<0.005	0.0016 (J)				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				0.014	<0.005	
3/18/2020	<0.005		0.00087 (J)				
3/19/2020		<0.005		<0.005	0.014	<0.005	<0.005
9/23/2020		<0.005	0.0013 (J)	<0.005		<0.005	<0.005
9/24/2020					0.0064		
9/25/2020	<0.005						

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.005	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.005	0.0008 (J)	0.0006 (J)
9/20/2016	<0.005	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.005	0.0008 (J)	0.0007 (J)
11/7/2016	<0.005	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.005
11/8/2016					<0.005		
1/18/2017	<0.005	0.0022 (J)	0.0017 (J)		<0.005	0.001 (J)	
1/19/2017				0.0024 (J)			<0.005
2/21/2017	<0.005	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	<0.005		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	<0.005	0.002 (J)					
3/29/2018			0.0495 (D)	<0.005			<0.005
3/30/2018	<0.005	<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	<0.005	0.0017 (J)	0.092				
10/2/2018	<0.005	0.002 (J)	0.078	0.0023 (J)			<0.005
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)	<0.005
4/1/2019			0.025	0.0023 (J)	<0.005		<0.005
4/2/2019	<0.005	0.0022 (J)				0.0011 (J)	
9/25/2019	<0.005	0.0033 (J)					<0.005
9/26/2019			0.014	0.0021 (J)	<0.005	0.00098 (J)	
2/13/2020	<0.005	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	<0.005		0.014	0.0022 (J)			<0.005
9/24/2020	<0.005	0.0011 (J)	0.0076	0.0021 (J)	<0.005	0.00085 (J)	<0.005

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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)	
8/30/2016	0.0073 (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	
11/14/2016	0.0115						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	0.011	
2/24/2017	0.0106						
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					
5/8/2017	0.0099 (J)						
6/28/2017			<0.005	<0.005			
6/29/2017		<0.005			<0.005	0.0093 (J)	
7/11/2017	0.0096 (J)						
10/10/2017	0.0036 (J)						
10/11/2017							<0.005
11/20/2017							<0.005
1/11/2018							<0.005
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<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
8/7/2018							<0.005
9/19/2018	0.0036 (J)						
9/24/2018							<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		
8/20/2019	0.00092 (J)						
8/21/2019							0.00034 (J)
9/24/2019						0.0032 (J)	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/8/2019	0.0014 (J)						
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.005	0.0081	0.00034 (J)
3/17/2020	0.0017 (J)						
3/24/2020		<0.005	<0.005	<0.005	<0.005	0.0061	
3/25/2020							0.00034 (J)
8/27/2020	0.0011 (J)						
9/22/2020	0.00097 (J)						
9/23/2020		<0.005	<0.005	<0.005			
9/24/2020					<0.005	0.0079	0.00053 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					0.0067
9/11/2007					<0.005
3/20/2008					<0.005
8/27/2008					<0.005
3/3/2009					<0.005
11/18/2009					<0.005
3/3/2010					0.0027
9/8/2010					0.007
3/10/2011					<0.005
9/8/2011					<0.005
3/5/2012					0.0032
9/10/2012					<0.005
2/6/2013					<0.005
8/12/2013					0.0045
2/5/2014					<0.005
8/5/2014					0.0027
2/4/2015					0.0016
8/3/2015					0.002
2/16/2016					0.0027
6/2/2016		0.00082 (J)	<0.005	<0.005	
7/26/2016		0.0012 (J)	<0.005	<0.005	
8/31/2016					0.0053 (J)
9/14/2016		0.0006 (J)	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					0.0036 (J)
1/12/2017			<0.005	<0.005	
1/13/2017		0.0029 (J)			
2/22/2017					0.0049 (J)
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)
6/27/2017			<0.005	<0.005	
6/29/2017		0.0005 (J)			
7/17/2017					0.0046 (J)
10/12/2017	<0.005				
10/16/2017					0.0034 (J)
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/6/2018			<0.005		
6/7/2018		0.00058 (J)		<0.005	
6/28/2018	<0.005				
8/6/2018					0.003 (J)
8/7/2018	<0.005				
9/24/2018	<0.005				
9/26/2018		<0.005	<0.005	<0.005	
2/25/2019					0.001 (J)

Time Series

Constituent: Cobalt (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		0.00083 (J)	<0.005	<0.005	
6/12/2019					0.003 (J)
8/19/2019					0.0035 (J)
8/21/2019	<0.005				
9/24/2019			<0.005	<0.005	
9/25/2019		<0.005			
10/8/2019					0.0039 (J)
10/9/2019	<0.005				
2/12/2020	<0.005	<0.005	0.00037 (J)	<0.005	
3/17/2020					0.003 (J)
3/24/2020	<0.005		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				

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.321 (U)	0.42				0.896
6/2/2016	0.329 (U)				0.0652 (U)	2.51	
7/25/2016			1.83		3.01		2.28
7/26/2016	1.51	0.707 (U)				3.82	
9/13/2016		1.22	0.841				
9/14/2016				0.98 (U)			0.821 (U)
9/15/2016	1.04 (U)					4.24	
9/19/2016					0.871 (U)		
11/1/2016		0.805 (U)			0.307 (U)	3.92	0.585 (U)
11/2/2016	0.496 (U)						
11/4/2016			0.166 (U)	0.277 (U)			
12/15/2016				0.071 (U)			
1/10/2017	0.376 (U)						
1/11/2017		0.705 (U)				2.52	1.22
1/16/2017			0	0.44 (U)	0.284 (U)		
2/21/2017					0.503 (U)		
3/1/2017							0.877 (U)
3/2/2017		0.251 (U)	0.504 (U)			3.13	
3/3/2017				0.448 (U)			
3/8/2017	0.0745 (U)						
4/26/2017	0.282 (U)				0.204 (U)	2.35	0.672 (U)
4/27/2017		1.08	0.593 (U)				
4/28/2017				0.548 (U)			
5/26/2017				0 (U)			
6/27/2017		1.02 (U)	0.657 (U)				
6/28/2017				0.608 (U)		2.6	1.07 (U)
6/30/2017	0.994				0.738 (U)		
3/27/2018	0.189 (U)		0.39 (U)		0.31 (U)		
3/28/2018				0.412 (U)		3	0.65 (U)
3/29/2018		0.503 (U)					
6/5/2018		0.771 (U)					
6/6/2018			2.8				
6/7/2018				0.73 (U)		2.79	
6/8/2018	0.218 (U)						1.89
6/11/2018					0.608 (U)		
10/1/2018	1.24	0.783 (U)	1.06 (U)	0.756 (U)		3.14	1.58
10/2/2018					0.97 (U)		
2/26/2019	0.202 (U)				0.524 (U)		
2/27/2019		1.21 (U)	0.637 (U)	0.635 (U)		3.79	3.67
3/28/2019		1.13 (U)	0.125 (U)				
3/29/2019	0 (U)			0.224 (U)			
4/1/2019					1.02 (U)	4.33	2.28
9/24/2019		1.22 (U)	0.949 (U)	0.429 (U)			
9/25/2019	0.707 (U)				1.02 (U)	4.2	1.6
2/10/2020		1.41	1.25 (U)				
2/11/2020				0.817 (U)		3.87	1.85
2/12/2020	1.07 (U)				0.301 (U)		
3/18/2020	0.207 (U)		0.458 (U)				
3/19/2020		1.1		0.715 (U)	1	3.96	2.2
9/23/2020		1.35 (U)	0.00884 (U)	0.565 (U)		4.14	1.14 (U)
9/24/2020					0.684 (U)		
9/25/2020	0.603 (U)						

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
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	<1.88	<1.88	3.42	1.49	<1.88	<1.88	<1.88

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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)	
8/30/2016	1.09						
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)	
12/15/2016	1 (U)						
1/11/2017		0.34 (U)	0.365 (U)	0.502 (U)			
1/13/2017					0.296 (U)	0.72 (U)	
2/24/2017	0.504 (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)					
5/8/2017	0.455 (U)						
6/28/2017			0.892	0.636 (U)			
6/29/2017		0.576 (U)			1.12	0.841 (U)	
7/11/2017	0.471 (U)						
10/10/2017	0.649 (U)						
10/11/2017							0.586 (U)
11/20/2017							0.816 (U)
1/11/2018							0.841 (U)
2/20/2018							1.58
3/28/2018		0.438 (U)	0.92 (U)	0.56 (U)			
3/29/2018					1.73	1.91	
4/2/2018	0.512 (U)						
4/3/2018							0.385 (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)
8/7/2018							0.332 (U)
9/19/2018	0.789 (U)						
9/24/2018							0.767 (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		
8/20/2019	2.44						
8/21/2019							1.01 (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	1.72						1.02 (U)
2/11/2020		0.461 (U)	1.48	0.597 (U)			
2/12/2020					1.11 (U)	1.61	0.45 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/17/2020	1.22 (U)						
3/24/2020		0.534 (U)	0.632 (U)	0.262 (U)	1.88	1.24 (U)	
3/25/2020							0.377 (U)
8/27/2020	1.26 (U)						
9/22/2020	1.06 (U)						
9/23/2020		0.466 (U)	0.887 (U)	0.43 (U)			
9/24/2020					0.611 (U)	1.8	0.568 (U)

Time Series

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.721	5.11	0.614	
7/26/2016		1.26	6.92	1.47	
8/31/2016					1.2
9/14/2016		0.901 (U)	3.96	1.27	
11/2/2016		1.09 (U)	4.53		
11/4/2016				0.434 (U)	
11/28/2016					0.264 (U)
1/12/2017			4.43	0.202 (U)	
1/13/2017		1.19			
2/22/2017					1.06 (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)
6/27/2017			2.8	0.77 (U)	
6/29/2017		1.35			
7/17/2017					1.42
10/12/2017	1.49				
10/16/2017					1.17
11/20/2017	0.918 (U)				
1/10/2018	1.05				
2/19/2018	2.05				1.58 (D)
3/29/2018		0.703 (U)	3.42	0.648 (U)	
4/3/2018	0.68 (U)				
6/6/2018			3.99		
6/7/2018		0.628 (U)		0.745 (U)	
6/28/2018	1.28				
8/6/2018					0.196 (U)
8/7/2018	1.16				
9/24/2018	0.965 (U)				
9/26/2018		0.756 (U)	2.73	0.377 (U)	
3/4/2019		1.21 (U)	4.43	1 (U)	
4/3/2019		1.07 (U)	4.79	0.43 (U)	
8/19/2019					1.39
8/21/2019	1.24 (U)				
9/24/2019			4.06	0.699 (U)	
9/25/2019		1.86			
10/8/2019	0.866 (U)				1.32 (U)
2/12/2020	1.83	1.25	4.02	0.913 (U)	
3/17/2020					1 (U)
3/24/2020	1.27 (U)		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	0.634 (U)				

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.12 (J)	<0.1				0.15 (J)
6/2/2016	<0.1				<0.1	0.62	
7/25/2016			0.06 (J)		0.06 (J)		0.14 (J)
7/26/2016	0.02 (J)	0.08 (J)				0.49	
9/13/2016		0.11 (J)	<0.1				
9/14/2016				0.08 (J)			0.18 (J)
9/15/2016	<0.1					0.54	
9/19/2016					<0.1		
11/1/2016		<0.1			<0.1	0.68	<0.1
11/2/2016	<0.1						
11/4/2016			<0.1	<0.1			
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		<0.1	<0.1			0.48	
3/3/2017				<0.1			
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		<0.1	<0.1				
6/28/2017				0.11 (J)		0.47	0.12 (J)
6/30/2017	<0.1				<0.1		
10/3/2017		<0.1	<0.1	<0.1			
10/4/2017					<0.1	<0.1	<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		<0.1					
6/5/2018		0.055 (J)					
6/6/2018			<0.1				
6/7/2018				0.11 (J)		0.48	
6/8/2018	<0.1						0.2 (J)
6/11/2018					<0.1		
10/1/2018	<0.1	<0.1	<0.1	<0.1		0.44	<0.1
10/2/2018					<0.1		
2/26/2019	<0.1				<0.1		
2/27/2019		0.052 (J)	<0.1	0.12 (J)		0.53	0.13 (J)
3/28/2019		0.036 (J)	<0.1				
3/29/2019	<0.1			0.13 (J)			
4/1/2019					<0.1	0.45	0.1 (J)
9/24/2019		0.063 (J)	<0.1	0.081 (J)			
9/25/2019	<0.1				<0.1	0.46	0.1 (J)
2/10/2020		0.061 (J)	<0.1				
2/11/2020				0.075 (J)			0.094 (J)
2/12/2020	<0.1				<0.1	0.4	
3/18/2020	<0.1		<0.1				
3/19/2020		0.064 (J)		0.093 (J)	<0.1	0.51	0.11 (J)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		0.058 (J)	<0.1	0.08 (J)		0.47	0.098 (J)
9/24/2020					<0.1		
9/25/2020	<0.1						

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
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)	<0.1	0.32			
9/21/2016					0.08 (J)	0.25 (J)	0.09 (J)
11/7/2016	<0.1 (*)	0.44	<0.1 (*)	<0.1 (*)		0.27 (J)	<0.1 (*)
11/8/2016					0.24 (J)		
1/18/2017	0.11 (J)	<0.1 (*)	<0.1 (*)		0.12 (J)	0.34	
1/19/2017				0.25 (J)			<0.1 (*)
2/21/2017	<0.1 (*)	<0.1 (*)				0.27 (J)	
2/22/2017				0.21 (J)	<0.1 (*)		<0.1 (*)
2/23/2017			<0.1 (*)				
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			<0.1 (*)	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					<0.1 (*)		<0.1 (*)
10/6/2017				<0.1 (*)			
10/9/2017			<0.1 (*)			<0.1 (*)	
10/10/2017	<0.1	<0.1					
3/29/2018			<0.1	0.49			<0.1
3/30/2018	<0.1	0.35			<0.1	<0.1	
6/11/2018							<0.1
6/12/2018				0.037 (J)	<0.1	0.13 (J)	
6/13/2018	0.088 (J)	0.044 (J)	<0.1				
10/2/2018	<0.1	<0.1	<0.1	<0.1			<0.1
10/3/2018					<0.1	0.31	
2/27/2019	<0.1	<0.1	<0.1	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	<0.1	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)		<0.1	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)

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.1	<0.1			
6/7/2016		<0.1			<0.1	<0.1	
7/27/2016		<0.1	<0.1	<0.1	<0.1		
7/28/2016						0.02 (J)	
8/30/2016	0.09 (J)						
9/16/2016		<0.1		<0.1			
9/19/2016			<0.1		<0.1	0.02 (J)	
11/2/2016					<0.1		
11/3/2016		<0.1	<0.1	<0.1		<0.1	
11/14/2016	0.18 (J)						
1/11/2017		<0.1	<0.1	<0.1			
1/13/2017					<0.1	<0.1	
2/24/2017	0.05 (J)						
3/1/2017			<0.1	<0.1			
3/2/2017		<0.1					
3/6/2017					<0.1	<0.1	
4/26/2017			<0.1	<0.1	<0.1	0.04 (J)	
5/2/2017		<0.1					
5/8/2017	0.03 (J)						
6/28/2017			<0.1	<0.1			
6/29/2017		<0.1			<0.1	<0.1	
7/11/2017	0.07 (J)						
10/3/2017						<0.1	
10/4/2017		<0.1		<0.1	<0.1		
10/5/2017			<0.1				
10/10/2017	<0.1						
10/11/2017							<0.1
11/20/2017							<0.1
1/11/2018							<0.1
2/20/2018							0.23
3/28/2018		<0.1	<0.1	<0.1			
3/29/2018					<0.1	<0.1	
4/2/2018	<0.1						
4/3/2018							<0.1
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
8/7/2018							0.048 (J)
9/19/2018	<0.1						
9/24/2018							<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				
3/27/2019	0.081 (J)						<0.1
4/2/2019		<0.1				0.12 (J)	
4/3/2019			<0.1	<0.1	<0.1		
8/20/2019	<0.1						
8/21/2019							<0.1
9/24/2019						0.15 (J)	
9/25/2019		<0.1			<0.1		

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			<0.1	<0.1			
10/8/2019	0.034 (J)						
10/9/2019							<0.1
2/11/2020		<0.1	<0.1	<0.1			
2/12/2020					<0.1	0.1 (J)	<0.1
3/17/2020	<0.1						
3/24/2020		<0.1	<0.1	<0.1	<0.1	0.081 (J)	
3/25/2020							<0.1
8/27/2020	<0.1						
9/22/2020	<0.1						
9/23/2020		<0.1	<0.1	<0.1			
9/24/2020					<0.1	0.079 (J)	<0.1

Time Series

Constituent: Fluoride (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.1	0.11 (J)	<0.1	
7/26/2016		<0.1	0.05 (J)	<0.1	
8/31/2016					0.14 (J)
9/14/2016		<0.1	0.04 (J)	<0.1	
11/2/2016		<0.1	<0.1		
11/4/2016				<0.1	
11/28/2016					0.12 (J)
1/12/2017			0.04 (J)	<0.1	
1/13/2017		<0.1			
2/22/2017					0.09 (J)
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)
6/27/2017			<0.1	<0.1	
6/29/2017		<0.1			
7/17/2017					0.14 (J)
10/3/2017			<0.1	<0.1	
10/5/2017		<0.1			
10/12/2017	<0.1				
10/16/2017					0.12 (J)
11/20/2017	<0.1				
1/10/2018	<0.1				
2/19/2018	<0.1				0.17
3/29/2018		<0.1	<0.1	<0.1	
4/3/2018	<0.1				
6/6/2018			0.15 (J)		
6/7/2018		<0.1		<0.1	
6/28/2018	<0.1				
8/6/2018					0.087 (J)
8/7/2018	<0.1				
9/24/2018	<0.1				
9/26/2018		<0.1	<0.1	<0.1	
2/25/2019					0.14 (J)
3/4/2019		<0.1	0.19 (J)	<0.1	
3/26/2019	<0.1				
4/3/2019		<0.1	0.047 (J)	<0.1	
6/12/2019					0.12 (J)
8/19/2019					<0.1
8/21/2019	<0.1				
9/24/2019			0.05 (J)	<0.1	
9/25/2019		<0.1			
10/8/2019					0.052 (J)
10/9/2019	<0.1				
2/12/2020	<0.1	<0.1	<0.1	<0.1	
3/17/2020					0.053 (J)
3/24/2020	<0.1		<0.1	<0.1	
3/25/2020		<0.1			
8/26/2020					0.068 (J)
9/22/2020		<0.1	0.056 (J)	<0.1	0.058 (J)
9/24/2020	<0.1				

Time Series

Constituent: Lead (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.00056 (J)	<0.005				<0.005
6/2/2016	<0.005				<0.005	0.00056 (J)	
7/25/2016			<0.005		<0.005		<0.005
7/26/2016	<0.005	<0.005				0.0001 (J)	
9/13/2016		0.0001 (J)	<0.005				
9/14/2016				<0.005			<0.005
9/15/2016	<0.005					0.0002 (J)	
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							<0.005
3/2/2017		0.0001 (J)	<0.005			0.0002 (J)	
3/3/2017				<0.005			
3/8/2017	0.0001 (J)						
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
2/10/2020		4.9E-05 (J)	<0.005				
2/11/2020				<0.005			<0.005
2/12/2020	<0.005				<0.005	<0.005	
3/18/2020	<0.005		<0.005				
3/19/2020		0.00012 (J)		<0.005	<0.005	0.00017 (J)	<0.005
9/23/2020		<0.005	0.00021 (J)	0.0011 (J)		<0.005	0.00015 (J)
9/24/2020					<0.005		
9/25/2020	<0.005						

Time Series

Constituent: Lead (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.005	<0.005	<0.005	<0.005 (*)			
6/9/2016					<0.005	<0.005	<0.005
8/1/2016	<0.005	<0.005	<0.005	<0.005			
8/2/2016					<0.005	<0.005	<0.005
9/20/2016	<0.005	<0.005	<0.005	0.0002 (J)			
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		<0.005	<0.005			<0.005
6/30/2017			<0.005	<0.005			
7/5/2017					<0.005		<0.005
7/7/2017						7E-05 (J)	
7/10/2017	<0.005	8E-05 (J)					
3/29/2018			<0.005	<0.005			<0.005
3/30/2018	<0.005	<0.005			<0.005	<0.005	
2/27/2019	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
2/13/2020	<0.005	<0.005	<0.005	6.2E-05 (J)	<0.005	5.4E-05 (J)	<0.005
3/19/2020		0.0001 (J)			<0.005	7.5E-05 (J)	
3/20/2020	5.9E-05 (J)		<0.005	8.5E-05 (J)			<0.005
9/24/2020	<0.005	6.4E-05 (J)	<0.005	0.00037 (J)	<0.005	6.3E-05 (J)	9.5E-05 (J)

Time Series

Constituent: Lead (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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	
8/30/2016	<0.005						
9/16/2016		<0.005		<0.005			
9/19/2016			<0.005		<0.005	<0.005	
11/2/2016					0.0013 (J)		
11/3/2016		<0.005	<0.005	<0.005		<0.005	
11/14/2016	<0.005						
1/11/2017		<0.005	<0.005	<0.005			
1/13/2017					<0.005	<0.005	
2/24/2017	<0.005						
3/1/2017			<0.005	<0.005			
3/2/2017		8E-05 (J)					
3/6/2017					<0.005	<0.005	
4/26/2017			<0.005	<0.005	<0.005	<0.005	
5/2/2017		<0.005					
5/8/2017	<0.005						
6/28/2017			<0.005	0.0001 (J)			
6/29/2017		8E-05 (J)			<0.005	<0.005	
7/11/2017	<0.005						
10/10/2017	<0.005						
10/11/2017							0.0001 (J)
11/20/2017							<0.005
1/11/2018							0.0002 (J)
2/20/2018							<0.005
3/28/2018		<0.005	<0.005	<0.005			
3/29/2018					<0.005	<0.005	
4/2/2018	<0.005						
4/3/2018							<0.005
6/28/2018							<0.005
8/7/2018							<0.005
9/19/2018	<0.005						
9/24/2018							<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		
8/20/2019	<0.005						
8/21/2019							<0.005
9/24/2019						<0.005	
9/25/2019		<0.005			<0.005		
9/26/2019			<0.005	<0.005			
10/9/2019							<0.005
2/11/2020		<0.005	<0.005	<0.005			
2/12/2020					<0.005	<0.005	<0.005
3/24/2020		6.4E-05 (J)	7.1E-05 (J)	5.4E-05 (J)	0.00011 (J)	<0.005	
3/25/2020							5.1E-05 (J)
8/27/2020	<0.005						
9/22/2020	<0.005						
9/23/2020		4.1E-05 (J)	6E-05 (J)	9.7E-05 (J)			

Time Series

Constituent: Lead (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/24/2020					9.2E-05 (J)	4.6E-05 (J)	<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					<0.005
9/11/2007					<0.005
3/20/2008					<0.005
8/27/2008					<0.005
3/3/2009					<0.005
11/18/2009					<0.005
3/3/2010					<0.005
9/8/2010					<0.005
3/10/2011					<0.005
9/8/2011					<0.005
3/5/2012					<0.005
9/10/2012					<0.005
2/6/2013					<0.005
8/12/2013					<0.005
2/5/2014					<0.005
8/5/2014					<0.005
2/4/2015					<0.005
8/3/2015					<0.005
2/16/2016					<0.005
6/2/2016		<0.005	<0.005	<0.005	
7/26/2016		<0.005	<0.005	<0.005	
8/31/2016					<0.005
9/14/2016		<0.005	<0.005	<0.005	
11/2/2016		<0.005	<0.005		
11/4/2016				<0.005	
11/28/2016					<0.005
1/12/2017			<0.005	<0.005	
1/13/2017		<0.005			
2/22/2017					<0.005
3/6/2017		<0.005			
3/7/2017			0.0001 (J)	7E-05 (J)	
5/1/2017		<0.005	<0.005		
5/2/2017				<0.005	
5/8/2017					<0.005
6/27/2017			<0.005	<0.005	
6/29/2017		<0.005			
7/17/2017					<0.005
10/12/2017	9E-05 (J)				
10/16/2017					<0.005
11/20/2017	<0.005				
1/10/2018	<0.005				
2/19/2018	<0.005				<0.005
3/29/2018		<0.005	<0.005	<0.005	
4/3/2018	<0.005				
6/28/2018	<0.005				
8/6/2018					<0.005
8/7/2018	<0.005				
9/24/2018	<0.005				
2/25/2019					<0.005
3/4/2019		<0.005	<0.005	<0.005	
4/3/2019		<0.005	<0.005	<0.005	
6/12/2019					<0.005

Time Series

Constituent: Lead (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.005
8/21/2019	<0.005				
9/24/2019			<0.005	9E-05 (J)	
9/25/2019		<0.005			
10/8/2019					<0.005
10/9/2019	<0.005				
2/12/2020	<0.005	<0.005	<0.005	<0.005	
3/17/2020					<0.005
3/24/2020	<0.005		5.4E-05 (J)	6.8E-05 (J)	
3/25/2020		<0.005			
8/26/2020					<0.005
9/22/2020		<0.005	4.5E-05 (J)	4.2E-05 (J)	0.0001 (J)
9/24/2020	3.8E-05 (J)				

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.015	<0.03				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						

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.007	<0.03	0.0067	<0.03			
6/9/2016					0.0073	<0.03	0.0075
8/1/2016	0.0068 (J)	<0.03	0.008 (J)	<0.03			
8/2/2016					0.0073 (J)	<0.03	0.0078 (J)
9/20/2016	0.0062 (J)	<0.03	0.0111 (J)	<0.03			
9/21/2016					0.0067 (J)	<0.03	0.0074 (J)
11/7/2016	0.0057 (J)	<0.03	0.0097 (J)	<0.03		<0.03	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.03	0.01 (J)		0.0067 (J)	<0.03	
1/19/2017				<0.03			0.0055 (J)
2/21/2017	0.0067 (J)	<0.03				<0.03	
2/22/2017				<0.03	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (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			0.0066 (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)	<0.03					
3/29/2018			0.011 (J)	<0.03			0.0049 (J)
3/30/2018	0.0068 (J)	<0.03			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)	<0.03	0.014 (J)				
10/2/2018	0.0064 (J)	<0.03	0.012 (J)	<0.03			0.006 (J)
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	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				<0.03	
9/25/2019	0.0073 (J)	<0.03					0.0057 (J)
9/26/2019			0.0075 (J)	<0.03	0.0064 (J)	<0.03	
2/13/2020	0.0073 (J)	<0.03	0.0079 (J)	<0.03	0.0069 (J)	<0.03	0.0057 (J)
3/19/2020		<0.03			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)	<0.03	0.0075 (J)	<0.03	0.0065 (J)	<0.03	0.005 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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)	
8/30/2016	0.0061 (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	
11/14/2016	0.0064 (J)						
1/11/2017		0.0035 (J)	0.0052 (J)	0.0025 (J)			
1/13/2017					<0.03	0.0062 (J)	
2/24/2017	0.0049 (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					
5/8/2017	0.0053 (J)						
6/28/2017			0.0039 (J)	0.0016 (J)			
6/29/2017		<0.03			<0.03	0.0047 (J)	
7/11/2017	0.0051 (J)						
10/10/2017	0.0043 (J)						
10/11/2017							0.0018 (J)
11/20/2017							0.0018 (J)
1/11/2018							0.0019 (J)
2/20/2018							<0.03
3/28/2018		<0.03	0.0041 (J)	0.0024 (J)			
3/29/2018					<0.03	0.0062 (J)	
4/2/2018	0.0045 (J)						
4/3/2018							0.0022 (J)
6/5/2018						0.0061 (J)	
6/6/2018					<0.03		
6/7/2018			0.0032 (J)				
6/11/2018		<0.03		0.0014 (J)			
6/28/2018							0.0026 (J)
8/7/2018							0.0024 (J)
9/19/2018	0.0043 (J)						
9/24/2018							0.0022 (J)
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		
8/20/2019	0.0036 (J)						
8/21/2019							0.0035 (J)
9/24/2019						0.0068 (J)	
9/25/2019		<0.03			<0.03		
9/26/2019			0.0032 (J)	0.0029 (J)			
10/8/2019	0.0036 (J)						
10/9/2019							0.0036 (J)
2/11/2020		<0.03	0.0033 (J)	0.005 (J)			

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
2/12/2020					<0.03	0.0065 (J)	0.0041 (J)
3/17/2020	0.0046 (J)						
3/24/2020		0.0034 (J)	0.0033 (J)	0.0035 (J)	<0.03	0.0064 (J)	
3/25/2020							0.0049 (J)
8/27/2020	0.0039 (J)						
9/22/2020	0.0036 (J)						
9/23/2020		<0.03	0.003 (J)	0.0022 (J)			
9/24/2020					<0.03	0.0069 (J)	0.0054 (J)

Time Series

Constituent: Lithium (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		0.013	0.0049 (J)	<0.03	
7/26/2016		0.0123 (J)	0.0063 (J)	0.0027 (J)	
8/31/2016					<0.03
9/14/2016		0.0137 (J)	0.0058 (J)	0.0029 (J)	
11/2/2016		0.0136 (J)	0.0053 (J)		
11/4/2016				<0.03	
11/28/2016					<0.03
1/12/2017			0.0054 (J)	0.0032 (J)	
1/13/2017		0.0121 (J)			
2/22/2017					<0.03
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)
6/27/2017			0.0018 (J)	0.0029 (J)	
6/29/2017		0.0145 (J)			
7/17/2017					<0.03
10/12/2017	<0.03				
10/16/2017					0.0016 (J)
11/20/2017	<0.03				
1/10/2018	<0.03				
2/19/2018	<0.03				<0.03
3/29/2018		0.014 (J)	0.0058 (J)	0.0034 (J)	
4/3/2018	<0.03				
6/6/2018			0.0068 (J)		
6/7/2018		0.013 (J)		0.0032 (J)	
6/28/2018	<0.03				
8/6/2018					<0.03
8/7/2018	<0.03				
9/24/2018	<0.03				
9/26/2018		0.014 (J)	0.0065 (J)	0.0032 (J)	
3/4/2019		0.015 (J)	0.0065 (J)	0.0032 (J)	
4/3/2019		0.014 (J)	0.007 (J)	0.0035 (J)	
8/19/2019					0.0019 (J)
8/21/2019	<0.03				
9/24/2019			0.0065 (J)	0.0031 (J)	
9/25/2019		0.014 (J)			
10/8/2019					0.0015 (J)
10/9/2019	<0.03				
2/12/2020	<0.03	0.011 (J)	0.0066 (J)	0.0032 (J)	
3/17/2020					0.0017 (J)
3/24/2020	<0.03		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	<0.03				

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.0005	<0.0005				<0.0005
6/2/2016	<0.0005				<0.0005	<0.0005	
7/25/2016			<0.0005		<0.0005		<0.0005
7/26/2016	<0.0005	<0.0005				<0.0005	
9/13/2016		<0.0005	<0.0005				
9/14/2016				<0.0005			<0.0005
9/15/2016	<0.0005					<0.0005	
9/19/2016					<0.0005		
11/1/2016		<0.0005			<0.0005	<0.0005	<0.0005
11/2/2016	<0.0005						
11/4/2016			<0.0005	<0.0005			
12/15/2016				<0.0005			
1/10/2017	<0.0005						
1/11/2017		<0.0005				<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	<0.0005						
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	6.1E-05 (J)				6.8E-05 (J)		
2/27/2019		5.1E-05 (J)	5.4E-05 (J)	<0.0005		6.2E-05 (J)	6.1E-05 (J)
3/28/2019		4E-05 (J)	<0.0005				
3/29/2019	<0.0005			<0.0005			
4/1/2019					8.2E-05 (J)	9.6E-05 (J)	8.4E-05 (J)
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	

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.0005	<0.0005			
6/7/2016		9.5E-05 (J)			9.6E-05 (J)	9.6E-05 (J)	
7/27/2016		<0.0005	<0.0005	<0.0005	<0.0005		
7/28/2016						<0.0005	
8/30/2016	<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	
11/14/2016	<0.0005						
1/11/2017		<0.0005	<0.0005	<0.0005			
1/13/2017					<0.0005	<0.0005	
2/24/2017	<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					
5/8/2017	<0.0005						
6/28/2017			<0.0005	<0.0005			
6/29/2017		<0.0005			<0.0005	<0.0005	
7/11/2017	<0.0005						
10/10/2017	<0.0005						
10/11/2017							<0.0005
11/20/2017							7E-05 (J)
1/11/2018							<0.0005
2/20/2018							<0.0005
3/28/2018		<0.0005	<0.0005	<0.0005			
3/29/2018					<0.0005	<0.0005	
4/2/2018	<0.0005						
4/3/2018							<0.0005
6/28/2018							<0.0005
8/7/2018							<0.0005
9/19/2018	5.3E-05 (J)						
9/24/2018							<0.0005
9/25/2018		<0.0005	<0.0005	<0.0005	<0.0005	<0.0005	
3/5/2019		<0.0005		<0.0005	<0.0005	<0.0005	
3/6/2019			<0.0005				
8/20/2019	<0.0005						
8/21/2019							<0.0005
2/11/2020		<0.0005	<0.0005	<0.0005			
2/12/2020					<0.0005	<0.0005	<0.0005
8/27/2020	<0.0005						

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					<0.0005
9/11/2007					<0.0005
3/20/2008					<0.0005
8/27/2008					<0.0005
3/3/2009					<0.0005
11/18/2009					<0.0005
3/3/2010					<0.0005
9/8/2010					<0.0005
3/10/2011					<0.0005
9/8/2011					<0.0005
3/5/2012					<0.0005
9/10/2012					<0.0005
2/6/2013					<0.0005
8/12/2013					<0.0005
2/5/2014					<0.0005
8/5/2014					<0.0005
2/4/2015					<0.0005
8/3/2015					<0.0005
2/16/2016					1.36E-05 (J)
6/2/2016		<0.0005	<0.0005	<0.0005	
7/26/2016		<0.0005	<0.0005	<0.0005	
8/31/2016					<0.0005
9/14/2016		<0.0005	<0.0005	<0.0005	
11/2/2016		<0.0005	<0.0005		
11/4/2016				<0.0005	
11/28/2016					<0.0005
1/12/2017			<0.0005	<0.0005	
1/13/2017		<0.0005			
2/22/2017					<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
6/27/2017			<0.0005	<0.0005	
6/29/2017		<0.0005			
7/17/2017					<0.0005
10/12/2017	<0.0005				
10/16/2017					<0.0005
11/20/2017	8E-05 (J)				
1/10/2018	<0.0005				
2/19/2018	<0.0005				<0.0005
3/29/2018		<0.0005	<0.0005	<0.0005	
4/3/2018	<0.0005				
6/28/2018	3.6E-05 (J)				
8/6/2018					<0.0005
8/7/2018	<0.0005				
9/24/2018	<0.0005				
9/26/2018		<0.0005	<0.0005	<0.0005	
2/25/2019					7.4E-05 (J)
3/4/2019		<0.0005	<0.0005	<0.0005	
6/12/2019					<0.0005

Time Series

Constituent: Mercury (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/19/2019					<0.0005
8/21/2019	<0.0005				
10/8/2019					<0.0005
2/12/2020	<0.0005	<0.0005	<0.0005	<0.0005	
5/6/2020					<0.0005
8/26/2020					<0.0005
9/22/2020					<0.0005

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		0.014 (J)	0.012 (J)				0.0055 (J)
6/2/2016	<0.01				<0.01	0.0093 (J)	
7/25/2016			0.0098 (J)		<0.01		0.0037 (J)
7/26/2016	<0.01	0.0132				0.0113	
9/13/2016		0.0127	0.01 (J)				
9/14/2016				0.0039 (J)			0.0034 (J)
9/15/2016	<0.01					0.0112	
9/19/2016					<0.01		
11/1/2016		0.0092 (J)			<0.01	0.0099 (J)	0.0025 (J)
11/2/2016	<0.01						
11/4/2016			0.01	0.0077 (J)			
12/15/2016				0.0066 (J)			
1/10/2017	<0.01						
1/11/2017		0.0093 (J)				0.0093 (J)	0.0033 (J)
1/16/2017			0.0086 (J)	0.0056 (J)	<0.01		
2/21/2017					<0.01		
3/1/2017							0.0044 (J)
3/2/2017		0.0099 (J)	0.01			0.0103	
3/3/2017				0.0049 (J)			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	0.01	0.0075 (J)
4/27/2017		0.0103	0.0101				
4/28/2017				0.004 (J)			
5/26/2017				0.0029 (J)			
6/27/2017		0.0097 (J)	0.0093 (J)				
6/28/2017				0.0036 (J)		0.0102	0.008 (J)
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		0.0074 (J)		<0.01		
3/28/2018				0.0038 (J)		0.011	0.0025 (J)
3/29/2018		0.0076 (J)					
6/5/2018		0.0092 (J)					
6/6/2018			0.0073 (J)				
6/7/2018				0.004 (J)		0.011	
6/8/2018	<0.01						0.0041 (J)
6/11/2018					<0.01		
10/1/2018	<0.01	0.0085 (J)	0.0076 (J)	0.0042 (J)		0.012	0.0037 (J)
10/2/2018					<0.01		
2/26/2019	<0.01				<0.01		
2/27/2019		0.0087 (J)	0.0078 (J)	0.0041 (J)		0.011	0.0027 (J)
3/28/2019		0.0092 (J)	0.0082 (J)				
3/29/2019	<0.01			0.0041 (J)			
4/1/2019					<0.01	0.012	0.0021 (J)
9/24/2019		0.0072 (J)	0.0074 (J)	0.0054 (J)			
9/25/2019	<0.01				<0.01	0.012	0.0087 (J)
2/10/2020		0.0087 (J)	0.0062 (J)				
2/11/2020				0.0057 (J)			0.003 (J)
2/12/2020	<0.01				<0.01	0.013	
3/18/2020	<0.01		0.0056 (J)				
3/19/2020		0.0088 (J)		0.0046 (J)	<0.01	0.013	0.0043 (J)
9/23/2020		0.008 (J)	0.0059 (J)	0.0071 (J)		0.012	0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	<0.01	<0.01	0.0011 (J)	<0.01			
6/9/2016					0.0011 (J)	<0.01	<0.01
8/1/2016	<0.01	<0.01	0.0018 (J)	<0.01			
8/2/2016					0.0014 (J)	0.0006 (J)	<0.01
9/20/2016	<0.01	<0.01	<0.01	<0.01			
9/21/2016					<0.01	<0.01	<0.01
11/7/2016	<0.01	<0.01	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	<0.01	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	<0.01	<0.01				<0.01	
2/22/2017				<0.01	<0.01		<0.01
2/23/2017			<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)		<0.01
7/7/2017						<0.01	
7/10/2017	<0.01	<0.01					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
6/11/2018							<0.01
6/12/2018				<0.01	<0.01	<0.01	
6/13/2018	<0.01	<0.01	<0.01				
10/2/2018	<0.01	<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	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	<0.01	<0.01				<0.01	
9/25/2019	<0.01	<0.01					<0.01
9/26/2019			0.0013 (J)	<0.01	0.0013 (J)	<0.01	
2/13/2020	<0.01	<0.01	0.0014 (J)	<0.01	0.0013 (J)	<0.01	<0.01
3/19/2020		<0.01			0.0014 (J)	<0.01	
3/20/2020	<0.01		0.0014 (J)	<0.01			<0.01
9/24/2020	<0.01	<0.01	0.0015 (J)	<0.01	0.0012 (J)	0.00075 (J)	<0.01

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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	
8/30/2016	<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
11/14/2016	<0.01						
1/11/2017		<0.01	<0.01	<0.01			
1/13/2017					<0.01	<0.01	
2/24/2017	<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					
5/8/2017	<0.01						
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01			<0.01	<0.01	
7/11/2017	<0.01						
10/10/2017	<0.01						
10/11/2017							0.0094 (J)
11/20/2017							0.0081 (J)
1/11/2018							0.0074 (J)
2/20/2018							<0.01
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					<0.01	<0.01	
4/2/2018	<0.01						
4/3/2018							0.006 (J)
6/28/2018							0.005 (J)
8/7/2018							0.0045 (J)
9/19/2018	<0.01						
9/24/2018							0.0035 (J)
3/5/2019		<0.01		<0.01	<0.01	<0.01	
3/6/2019			<0.01				
8/20/2019	<0.01						
8/21/2019							0.0021 (J)
10/8/2019	<0.01						
10/9/2019							0.0018 (J)
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020					<0.01	<0.01	0.0025 (J)
3/17/2020	<0.01						
3/24/2020		<0.01	<0.01	<0.01	<0.01	<0.01	
3/25/2020							0.002 (J)
8/27/2020	<0.01						
9/22/2020	<0.01						
9/23/2020		<0.01	<0.01	<0.01			
9/24/2020					<0.01	<0.01	0.0016 (J)

Time Series

Constituent: Molybdenum (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		<0.01	0.0035 (J)	<0.01	
7/26/2016		<0.01	0.0042 (J)	<0.01	
8/31/2016					<0.01
9/14/2016		<0.01	0.0041 (J)	<0.01	
11/2/2016		<0.01	0.0039 (J)		
11/4/2016				<0.01	
11/28/2016					<0.01
1/12/2017			0.0041 (J)	<0.01	
1/13/2017		<0.01			
2/22/2017					<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
6/27/2017			0.004 (J)	<0.01	
6/29/2017		<0.01			
7/17/2017					<0.01
10/12/2017	<0.01				
10/16/2017					<0.01
11/20/2017	<0.01				
1/10/2018	<0.01				
2/19/2018	<0.01				<0.01
3/29/2018		<0.01	<0.01	<0.01	
4/3/2018	<0.01				
6/28/2018	<0.01				
8/6/2018					<0.01
8/7/2018	<0.01				
9/24/2018	<0.01				
3/4/2019		<0.01	<0.01	<0.01	
8/19/2019					<0.01
8/21/2019	<0.01				
10/9/2019	<0.01				
2/12/2020	<0.01	<0.01	0.0011 (J)	<0.01	
3/24/2020	<0.01		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				

Time Series

Constituent: pH (S.U.) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		7.46	6.33				7.72
6/2/2016	5.46				5.75	7.84	
7/25/2016			6.21		5.82		7.74
7/26/2016	5.45	7.43				7.88	
9/13/2016		7.44	6.16	7.41			
9/14/2016							7.65
9/15/2016	5.45					7.74	
9/19/2016					5.78 (D)		
11/1/2016		7.24			5.62	7.75	7.7
11/2/2016	5.41						
11/4/2016			6.29	7.12			
12/15/2016				7.24			
1/10/2017	5.37						
1/11/2017		7.3				7.66	7.53
1/16/2017			6.29	7.24	5.72		
2/21/2017					5.67		
3/1/2017							7.42
3/2/2017		7.23	6.28			7.68	
3/3/2017				7.22			
3/8/2017	5.41						
4/26/2017	5.02				5.56	7.45	7.4
4/27/2017		6.99	6.09				
4/28/2017				7.21			
5/26/2017				7.13			
6/27/2017		6.87	6.21				
6/28/2017				7.06		7.65	7.5
6/30/2017	5.39				5.72		
10/3/2017		6.81	5.98	6.99			
10/4/2017					5.87	7.49	7.45
10/5/2017	5.49						
3/27/2018	5.47		6.25		5.83		
3/28/2018				7.3		7.91	7.74
3/29/2018		7.38					
6/5/2018		7.16					
6/6/2018			6.17				
6/7/2018				7.29		7.69	
6/8/2018	5.45						7.64
6/11/2018					5.69		
10/1/2018	5.39	6.8	5.9	7.07		7.39	7.47
10/2/2018					5.39		
2/26/2019	5.46				5.77		
2/27/2019		6.84	5.8	7.27		7.55	7.54
3/28/2019		6.99	6.15				
3/29/2019	5.34			7.06			
4/1/2019					5.62	7.87	7.74
9/24/2019		7.07	6.23	7.01			
9/25/2019	5.19				5.69	7.64	7.47
2/10/2020		7.2	6.1				7.09
2/11/2020				7.38			
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 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
9/23/2020		7.15	6.01	7.22		7.57	7.37
9/24/2020					5.67		
9/25/2020	5.44						

Time Series

Constituent: pH (S.U.) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	5.85	5.24	6.32	6.24			
6/9/2016					6.42	6.39	6.19
8/1/2016	5.83	5.17	6.34	6.12			
8/2/2016					6.43	6.35	6.17
9/20/2016	5.89	5.35	6.36	6.3			
9/21/2016					6.45	6.39	6.2
11/7/2016	5.91	5.35	6.3	6.25		6.36	6.1
11/8/2016					6.37		
1/18/2017	5.84	5.2	6.31		6.27	6.23	
1/19/2017				6.2			6.22
2/21/2017	5.79	5.14				6.42	
2/22/2017				6.14	6.35		6.12
2/23/2017			6.18				
5/3/2017		5.28					
5/5/2017					6.36	6.4	
5/8/2017	5.84		6.24	6.11			6.11
6/30/2017			6.21	6.17			
7/5/2017					6.4		6.17
7/7/2017						6.46	
7/10/2017	5.92	5.25					
10/5/2017					6.43		6.17
10/6/2017				6.13			
10/9/2017			6.26			6.37	
10/10/2017	5.84	5.17					
3/29/2018			6.36	6.25			6.09
3/30/2018	6.19	5.19			6.39	6.35	
6/11/2018							6.17
6/12/2018				6.22	6.42	6.47	
6/13/2018	5.82	5.12	6.28				
10/2/2018	5.81	4.95	5.9	5.99			6.17
10/3/2018					6.21	6.01	
2/27/2019	5.79	5	6.31	6.26	6.32	6.38	6.19
4/1/2019			6.43	6.4	6.3		6.03
4/2/2019	5.87	5.13				6.7	
9/25/2019	5.79	5.24					6.21
9/26/2019			6.3	6.22	6.43	6.47	
2/13/2020	5.93	5.29	6.4	6.31	6.49	6.53	6.32
3/19/2020		5.46			7.01	6.98	
3/20/2020	5.94		6.32	6.18			6.17
9/24/2020	5.86	5.46	6.36	6.27	6.41	6.53	6.2

Time Series

Constituent: pH (S.U.) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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	
8/30/2016	5.75						
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	
11/14/2016	5.59						
1/11/2017		5.59	6.05	5.48			
1/13/2017					5.79	6.41	
2/24/2017	5.49						
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					
5/8/2017	5.58						
6/28/2017			6	5.36			
6/29/2017		5.56			5.85	6.47	
7/11/2017	5.58						
10/3/2017						6.56	
10/4/2017		5.57		5.32	5.83		
10/5/2017			6.11				
10/10/2017	5.49						
10/11/2017							6.4
11/20/2017							6.33
1/11/2018							6.29
2/20/2018							7.22
3/28/2018		5.59	6.1	5.34			
3/29/2018					5.93	6.75	
4/2/2018	6.3 (o)						
4/3/2018							6.87
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
8/7/2018							6.08
9/19/2018	5.48						
9/24/2018							5.81
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				
3/27/2019	5.83						5.84
4/2/2019		5.74				6.94	
4/3/2019			6.29	5.47	5.71		
8/20/2019	5.58						
8/21/2019							5.96
9/24/2019						6.87	
9/25/2019		5.49			5.86		

Time Series

Constituent: pH (S.U.) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/26/2019			6.04	5.2			
10/8/2019	5.59						
10/9/2019							5.81
2/11/2020		5.58	6.07	5.3			
2/12/2020					6	7.13	5.97
3/17/2020	5.57						
3/24/2020		5.57	5.98	5.33	5.86	6.35	
3/25/2020							5.78
8/27/2020	4.88						
9/22/2020	5.46						
9/23/2020		5.58	6.01	5.29			
9/24/2020					5.8	6.7	5.7

Time Series

Constituent: pH (S.U.) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (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
6/2/2016		6.36	7.67	5.75	
7/26/2016		6.22	7.66	5.72	
9/14/2016		6.23	7.6	5.74	
11/2/2016		6.08	7.35		
11/4/2016				5.61	
11/28/2016					6.23
1/12/2017			7.49	5.71	
1/13/2017		6.19			
2/22/2017					6.21
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
6/27/2017			7.32	5.7	
6/29/2017		6.21			
7/17/2017					6.03
10/3/2017			7.48	5.79	
10/5/2017		6.16			
10/12/2017	5.43				
10/16/2017					6.12
11/20/2017	5.1				
1/10/2018	4.97				
2/19/2018	5.6				6.13
3/29/2018		6.09	7.02	5.63	
4/3/2018	5.84				
6/6/2018			7.43		
6/7/2018		6.12		5.63	
6/28/2018	5.24				
8/6/2018					6.01
8/7/2018	5.18				
9/24/2018	5.14				
9/26/2018		5.84	7.13	5.63	
2/25/2019					6.51
3/4/2019		6.18	7.46	5.75	
3/26/2019	5.3				
4/3/2019		6.43	7.11	5.63	
6/12/2019					6.3
8/19/2019					6.23

Time Series

Constituent: pH (S.U.) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	5.26				
9/24/2019			6.93	5.6	
9/25/2019		6.2			
10/8/2019					6.28
10/9/2019	5.22				
2/12/2020	5.3	6.15	7.52	5.83	
3/17/2020					6.14
3/24/2020	5.29		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	5.43				

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.01	<0.01				<0.01
6/2/2016	0.0011 (J)				<0.01	<0.01	
7/25/2016			<0.01		<0.01		<0.01
7/26/2016	0.0016 (J)	<0.01				<0.01	
9/13/2016		<0.01	<0.01				
9/14/2016				<0.01			<0.01
9/15/2016	0.0014 (J)					<0.01	
9/19/2016					<0.01		
11/1/2016		<0.01			<0.01	<0.01	<0.01
11/2/2016	<0.01						
11/4/2016			<0.01	<0.01			
12/15/2016				<0.01			
1/10/2017	0.0012 (J)						
1/11/2017		<0.01				<0.01	<0.01
1/16/2017			<0.01	<0.01	<0.01		
2/21/2017					<0.01		
3/1/2017							<0.01
3/2/2017		<0.01	<0.01			<0.01	
3/3/2017				<0.01			
3/8/2017	<0.01						
4/26/2017	<0.01				<0.01	<0.01	<0.01
4/27/2017		<0.01	<0.01				
4/28/2017				<0.01			
5/26/2017				<0.01			
6/27/2017		<0.01	<0.01				
6/28/2017				<0.01		<0.01	<0.01
6/30/2017	<0.01				<0.01		
3/27/2018	<0.01		<0.01		<0.01		
3/28/2018				<0.01		<0.01	<0.01
3/29/2018		<0.01					
2/26/2019	<0.01				<0.01		
2/27/2019		<0.01	<0.01	<0.01		<0.01	<0.01
3/28/2019		<0.01	<0.01				
3/29/2019	0.0019 (J)			<0.01			
4/1/2019					<0.01	<0.01	<0.01
9/24/2019		<0.01	<0.01	<0.01			
9/25/2019	<0.01				<0.01	<0.01	<0.01
2/10/2020		<0.01	<0.01				
2/11/2020				<0.01			<0.01
2/12/2020	<0.01				<0.01	<0.01	
3/18/2020	<0.01		<0.01				
3/19/2020		<0.01		<0.01	<0.01	<0.01	<0.01
9/23/2020		<0.01	<0.01	<0.01		<0.01	<0.01
9/24/2020					<0.01		
9/25/2020	<0.01						

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0016	0.0003 (J)	<0.01	<0.01			
6/9/2016					<0.01	<0.01	<0.01
8/1/2016	0.0023 (J)	0.0014 (J)	<0.01	<0.01			
8/2/2016					<0.01	<0.01	<0.01
9/20/2016	0.0022 (J)	<0.01	<0.01	<0.01			
9/21/2016					<0.01	0.001 (J)	<0.01
11/7/2016	0.0017 (J)	<0.01	<0.01	<0.01		<0.01	<0.01
11/8/2016					<0.01		
1/18/2017	0.002 (J)	0.0012 (J)	<0.01		<0.01	<0.01	
1/19/2017				<0.01			<0.01
2/21/2017	0.0018 (J)	0.0014 (J)				<0.01	
2/22/2017				<0.01	0.0012 (J)		<0.01
2/23/2017			<0.01				
5/3/2017		<0.01					
5/5/2017					<0.01	<0.01	
5/8/2017	<0.01		<0.01	<0.01			<0.01
6/30/2017			<0.01	<0.01			
7/5/2017					<0.01		<0.01
7/7/2017						<0.01	
7/10/2017	0.002 (J)	<0.01					
3/29/2018			<0.01	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
2/27/2019	0.002 (J)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
4/1/2019			<0.01	<0.01	<0.01		<0.01
4/2/2019	0.0017 (J)	<0.01				<0.01	
9/25/2019	0.0019 (J)	<0.01					<0.01
9/26/2019			<0.01	<0.01	<0.01	<0.01	
2/13/2020	0.0019 (J)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01
3/19/2020		<0.01			<0.01	<0.01	
3/20/2020	0.0019 (J)		<0.01	<0.01			<0.01
9/24/2020	0.0031 (J)	<0.01	<0.01	<0.01	<0.01	<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			<0.01	<0.01			
6/7/2016		0.001 (J)			<0.01	0.00048 (J)	
7/27/2016		0.0012 (J)	<0.01	<0.01	<0.01		
7/28/2016						<0.01	
8/30/2016	0.0017 (J)						
9/16/2016		0.0015 (J)		<0.01			
9/19/2016			<0.01		<0.01	0.0014 (J)	
11/2/2016					<0.01		
11/3/2016		0.0015 (J)	<0.01	<0.01		<0.01	
11/14/2016	<0.01						
1/11/2017		0.0014 (J)	<0.01	<0.01			
1/13/2017					<0.01	<0.01	
2/24/2017	0.0011 (J)						
3/1/2017			<0.01	<0.01			
3/2/2017		0.0017 (J)					
3/6/2017					<0.01	<0.01	
4/26/2017			<0.01	<0.01	<0.01	<0.01	
5/2/2017		<0.01					
5/8/2017	<0.01						
6/28/2017			<0.01	<0.01			
6/29/2017		<0.01			<0.01	<0.01	
7/11/2017	<0.01						
10/10/2017	<0.01						
10/11/2017							<0.01
11/20/2017							<0.01
1/11/2018							<0.01
2/20/2018							<0.01
3/28/2018		<0.01	<0.01	<0.01			
3/29/2018					<0.01	<0.01	
4/2/2018	<0.01						
4/3/2018							<0.01
6/5/2018						<0.01	
6/6/2018					<0.01		
6/7/2018			<0.01				
6/11/2018		<0.01		<0.01			
6/28/2018							<0.01
8/7/2018							<0.01
9/19/2018	<0.01						
9/24/2018							0.0015 (J)
9/25/2018		<0.01	<0.01	<0.01	<0.01	<0.01	
3/5/2019		<0.01		<0.01	<0.01	<0.01	
3/6/2019			<0.01				
4/2/2019		<0.01				<0.01	
4/3/2019			<0.01	<0.01	<0.01		
8/20/2019	<0.01						
8/21/2019							<0.01
9/24/2019						<0.01	
9/25/2019		<0.01			<0.01		
9/26/2019			<0.01	<0.01			
10/9/2019							<0.01
2/11/2020		<0.01	<0.01	<0.01			
2/12/2020					<0.01	<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
3/24/2020		<0.01	<0.01	<0.01	<0.01	<0.01	
3/25/2020							<0.01
8/27/2020	<0.01						
9/23/2020		<0.01	<0.01	<0.01			
9/24/2020					<0.01	<0.01	<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					<0.01
9/11/2007					<0.01
3/20/2008					<0.01
8/27/2008					<0.01
3/3/2009					<0.01
11/18/2009					<0.01
3/3/2010					<0.01
9/8/2010					<0.01
3/10/2011					<0.01
9/8/2011					<0.01
3/5/2012					<0.01
9/10/2012					<0.01
2/6/2013					<0.01
8/12/2013					<0.01
2/5/2014					<0.01
8/5/2014					<0.01
2/4/2015					<0.01
8/3/2015					<0.01
2/16/2016					<0.01
6/2/2016		<0.01	<0.01	<0.01	
7/26/2016		0.0009 (J)	<0.01	0.0009 (J)	
8/31/2016					<0.01
9/14/2016		<0.01	<0.01	<0.01	
11/2/2016		<0.01	<0.01		
11/4/2016				<0.01	
11/28/2016					<0.01
1/12/2017			<0.01	<0.01	
1/13/2017		<0.01			
2/22/2017					<0.01
3/6/2017		<0.01			
3/7/2017			<0.01	<0.01	
5/1/2017		<0.01	<0.01		
5/2/2017				<0.01	
5/8/2017					<0.01
6/27/2017			<0.01	<0.01	
6/29/2017		<0.01			
7/17/2017					<0.01
10/12/2017	<0.01				
10/16/2017					<0.01
11/20/2017	0.0042 (J)				
1/10/2018	0.0043 (J)				
2/19/2018	<0.01				<0.01
3/29/2018		<0.01	<0.01	<0.01	
4/3/2018	<0.01				
6/6/2018			<0.01		
6/7/2018		<0.01		<0.01	
6/28/2018	0.0032 (J)				
8/6/2018					<0.01
8/7/2018	0.0031 (J)				
9/24/2018	0.0026 (J)				
9/26/2018		<0.01	<0.01	<0.01	
2/25/2019					<0.01

Time Series

Constituent: Selenium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
3/4/2019		<0.01	<0.01	<0.01	
4/3/2019		<0.01	<0.01	<0.01	
6/12/2019					<0.01
8/19/2019					<0.01
8/21/2019	0.0024 (J)				
9/24/2019			<0.01	<0.01	
9/25/2019		<0.01			
10/8/2019					<0.01
10/9/2019	0.0026 (J)				
2/12/2020	0.002 (J)	<0.01	<0.01	<0.01	
3/17/2020					<0.01
3/24/2020	0.002 (J)		<0.01	<0.01	
3/25/2020		<0.01			
8/26/2020					<0.01
9/22/2020		<0.01	<0.01	<0.01	<0.01
9/24/2020	0.0016 (J)				

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		5	4.2				12
6/2/2016	6.6				1.3	5.8	
7/25/2016			3.7		1.2		8.4
7/26/2016	6.1	5.4				6.7	
9/13/2016		2.9	5.2				
9/14/2016				9.4			8.6
9/15/2016	6.1					6	
9/19/2016					1.2		
11/1/2016		3.9			1.3	4.9	8.9
11/2/2016	6.3						
11/4/2016			5	13			
12/15/2016				1.8			
1/10/2017	5.9						
1/11/2017		3.7				4.5	8.6
1/16/2017			7.9	11	<1		
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		
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						

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	81	110	3.2	26			
6/9/2016					8.7	5.2	33
8/1/2016	75	96	3.6	27			
8/2/2016					7.5	4.5	32
9/20/2016	78	100	5.6	21			
9/21/2016					8	<1 (*)	32
11/7/2016	81	100	5.4	24		4.3	33
11/8/2016					8.3		
1/18/2017	95	100	3.5		8	2.7	
1/19/2017				25			32
2/21/2017	80	96				3	
2/22/2017				24	8.2		31
2/23/2017			4.9				
5/3/2017		100					
5/5/2017					<1 (*)	<1 (*)	
5/8/2017	84		3.9	23			32
6/30/2017			5	23			
7/5/2017					8.1		31
7/7/2017						2.7	
7/10/2017	84	100					
10/5/2017					8.6		31
10/6/2017				23			
10/9/2017			5.1			2.9	
10/10/2017	82	97					
6/11/2018							30.6
6/12/2018				18.1	8.2	2.9	
6/13/2018	76.5	93.3	6.1				
10/2/2018	83.9	99	6.1	20.2			30.8
10/3/2018					8	2.1	
4/1/2019			4.1	18.3	8.2		30.4
4/2/2019	77.6	94.5				2.4	
9/25/2019	80.1	97					30
9/26/2019			4.2	18.2	7.9	1.6	
3/19/2020		99.4			9.1	1.7	
3/20/2020	84.7		5.2	21.1			33
9/24/2020	85.6	92.3	3	16.6	7.2	0.99 (J)	26.2

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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	
8/30/2016	160						
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	
11/14/2016	150						
1/11/2017		5.2	<1	1.7			
1/13/2017					<1	4.3	
2/24/2017	120						
3/1/2017			1.8	<1			
3/2/2017		5					
3/6/2017					<1	4.5	
4/26/2017			1.6	1.9	<1	4.9	
5/2/2017		5					
5/8/2017	120						
6/28/2017			<1	<1			
6/29/2017		5.2			<1	5.5	
7/11/2017	110						
10/3/2017						5.8	
10/4/2017		5.3		1.7	<1		
10/5/2017			1.6				
10/10/2017	93						
10/11/2017							20
11/20/2017							24
1/11/2018							23
2/20/2018							20.6
4/2/2018	88.8						
4/3/2018							24.5
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
8/7/2018							20.7
9/19/2018	75						
9/24/2018							21.2
9/25/2018		6.1	1	1.5	0.13 (J)	7	
3/27/2019	65.9						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			
10/8/2019	52.3						
10/9/2019							15
3/17/2020	71.6						
3/24/2020		5.4	<1	0.99 (J)	<1	3	
3/25/2020							14.3

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	51.5						
9/23/2020		5.1	0.53 (J)	1.1			
9/24/2020					<1	3.6	11.7

Time Series

Constituent: Sulfate (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		8	20	1.9	
7/26/2016		7.7	20	1.8	
8/31/2016					29
9/14/2016		7.5	19	1.8	
11/2/2016		8.2	20		
11/4/2016				2	
11/28/2016					36
1/12/2017			19	1.9	
1/13/2017		8.1			
2/22/2017					43
3/6/2017		8			
3/7/2017			20	2.1	
5/1/2017		8.4	20		
5/2/2017				2	
5/8/2017					60
6/27/2017			18	2.1	
6/29/2017		9.2			
7/17/2017					63
10/3/2017			16	2.3	
10/5/2017		9.6			
10/12/2017	17				
10/16/2017					62
11/20/2017	71				
1/10/2018	66				
2/19/2018	57.2				64.6
4/3/2018	49.4				
6/6/2018			8.3		
6/7/2018		8.5		2	
6/28/2018	43.8				
8/6/2018					42.1
8/7/2018	40.5				
9/24/2018	39.7				
9/26/2018		10.2	7.9	2.3	
2/25/2019					42.1
3/26/2019	34.3				
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			
10/8/2019					128
10/9/2019	27.9				
3/17/2020					98.6
3/24/2020	25.2		5.9	2.1	
3/25/2020		8.8			
9/22/2020		8.2	5.5	2.1	145
9/24/2020	22.9				

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		<0.001	<0.001				<0.001
6/2/2016	<0.001				<0.001	<0.001	
7/25/2016			<0.001		<0.001		<0.001
7/26/2016	<0.001	<0.001				0.0001 (J)	
9/13/2016		<0.001	<0.001				
9/14/2016				<0.001			<0.001
9/15/2016	<0.001					<0.001	
9/19/2016					<0.001		
11/1/2016		<0.001			<0.001	<0.001	<0.001
11/2/2016	<0.001						
11/4/2016			<0.001	<0.001			
12/15/2016				<0.001			
1/10/2017	<0.001						
1/11/2017		<0.001				<0.001	<0.001
1/16/2017			<0.001	<0.001	<0.001		
2/21/2017					<0.001		
3/1/2017							<0.001
3/2/2017		<0.001	<0.001			<0.001	
3/3/2017				<0.001			
3/8/2017	<0.001						
4/26/2017	<0.001				<0.001	<0.001	<0.001
4/27/2017		<0.001	<0.001				
4/28/2017				<0.001			
5/26/2017				<0.001			
6/27/2017		<0.001	<0.001				
6/28/2017				<0.001		<0.001	<0.001
6/30/2017	<0.001				<0.001		
3/27/2018	<0.001		<0.001		<0.001		
3/28/2018				<0.001		<0.001	<0.001
3/29/2018		<0.001					
2/26/2019	<0.001				<0.001		
2/27/2019		<0.001	<0.001	<0.001		<0.001	<0.001
2/10/2020		<0.001	5.5E-05 (J)				
2/11/2020				<0.001			<0.001
2/12/2020	8.9E-05 (J)				<0.001	<0.001	
3/18/2020	<0.001		<0.001				
3/19/2020		<0.001		<0.001	<0.001	<0.001	<0.001
9/23/2020		<0.001	<0.001	<0.001		<0.001	0.00016 (J)
9/24/2020					<0.001		
9/25/2020	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (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	
8/30/2016	<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	
11/14/2016	<0.001						
1/11/2017		<0.001	<0.001	<0.001			
1/13/2017					<0.001	<0.001	
2/24/2017	<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					
5/8/2017	<0.001						
6/28/2017			<0.001	<0.001			
6/29/2017		<0.001			<0.001	<0.001	
7/11/2017	<0.001						
10/10/2017	<0.001						
10/11/2017							<0.001
11/20/2017							<0.001
1/11/2018							<0.001
2/20/2018							<0.001
3/28/2018		<0.001	<0.001	<0.001			
3/29/2018					<0.001	<0.001	
4/2/2018	<0.001						
4/3/2018							<0.001
6/28/2018							<0.001
8/7/2018							<0.001
9/19/2018	<0.001						
9/24/2018							<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		
8/20/2019	5.8E-05 (J)						
8/21/2019							<0.001
9/24/2019						<0.001	
9/25/2019		<0.001			<0.001		
9/26/2019			<0.001	<0.001			
10/8/2019	8.4E-05 (J)						
2/11/2020		<0.001	<0.001	<0.001			
2/12/2020					<0.001	<0.001	<0.001
3/17/2020	<0.001						
3/24/2020		<0.001	<0.001	<0.001	<0.001	<0.001	
3/25/2020							<0.001
8/27/2020	<0.001						

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/23/2020		<0.001	<0.001	<0.001			
9/24/2020					<0.001	<0.001	<0.001

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/27/2021 10:01 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
5/1/2007					<0.001
9/11/2007					<0.001
3/20/2008					<0.001
8/27/2008					<0.001
3/3/2009					<0.001
11/18/2009					<0.001
3/3/2010					<0.001
9/8/2010					<0.001
3/10/2011					<0.001
9/8/2011					<0.001
3/5/2012					<0.001
9/10/2012					<0.001
2/6/2013					<0.001
8/12/2013					<0.001
2/5/2014					<0.001
8/5/2014					<0.001
2/4/2015					<0.001
2/16/2016					<0.001
6/2/2016		<0.001	<0.001	<0.001	
7/26/2016		<0.001	<0.001	<0.001	
8/31/2016					<0.001
9/14/2016		<0.001	<0.001	<0.001	
11/2/2016		<0.001	<0.001		
11/4/2016				<0.001	
11/28/2016					<0.001
1/12/2017			<0.001	<0.001	
1/13/2017		<0.001			
2/22/2017					<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)
6/27/2017			<0.001	<0.001	
6/29/2017		<0.001			
7/17/2017					6E-05 (J)
10/12/2017	<0.001				
10/16/2017					7E-05 (J)
11/20/2017	<0.001				
1/10/2018	<0.001				
2/19/2018	<0.001				<0.001
3/29/2018		<0.001	<0.001	<0.001	
4/3/2018	<0.001				
6/28/2018	<0.001				
8/6/2018					<0.001
8/7/2018	<0.001				
9/24/2018	<0.001				
2/25/2019					<0.001
3/4/2019		<0.001	<0.001	<0.001	
4/3/2019		<0.001	<0.001	<0.001	
6/12/2019					<0.001
8/19/2019					5.5E-05 (J)

Time Series

Constituent: Thallium (mg/L) Analysis Run 1/27/2021 10:01 AM
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
8/21/2019	<0.001				
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	<0.001	
3/17/2020					<0.001
3/24/2020	<0.001		<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				

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-14S (bg)	YGWA-1D (bg)	YGWA-1I (bg)	YGWA-2I (bg)	YGWA-30I (bg)	YGWA-3D (bg)	YGWA-3I (bg)
6/1/2016		120	54				150
6/2/2016	46				36	130	
7/25/2016			48		50		135
7/26/2016	54	94				141	
9/13/2016		105	67				
9/14/2016				152			127
9/15/2016	54					153	
9/19/2016					35		
11/1/2016		44			<25	92	75
11/2/2016	71						
11/4/2016			60	148			
12/15/2016				191			
1/10/2017	45						
1/11/2017		107				159	148
1/16/2017			65	180	47		
2/21/2017					<25		
3/1/2017							182
3/2/2017		98	61			117	
3/3/2017				156			
3/8/2017	178						
4/26/2017	52				55	181	92
4/27/2017		116	31				
4/28/2017				130			
5/26/2017				223			
6/27/2017		89	42				
6/28/2017				166		169	126
6/30/2017	45				42		
10/3/2017		119	58	153			
10/4/2017					31	141	147
10/5/2017	40						
6/5/2018		127					
6/6/2018			96				
6/7/2018				146		95	
6/8/2018	114						158
6/11/2018					59		
10/1/2018	50	117	60	155		165	138
10/2/2018					57		
3/28/2019		87	87				
3/29/2019	63			150			
4/1/2019					54	149	19 (J)
9/24/2019		124	54	146			
9/25/2019	64				51	157	159
3/18/2020	57		35				
3/19/2020		116		148	47	146	148
9/23/2020		108	15	161		157	155
9/24/2020					51		
9/25/2020	54						

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	220	200	190	210			
6/9/2016					240	210	150
8/1/2016	211	191	191	209			
8/2/2016					226	202	155
9/20/2016	217	213	205	224			
9/21/2016					214	216	138
11/7/2016	301	284	264	291		399	291
11/8/2016					229		
1/18/2017	265 (D)	158 (D)	167 (D)		243 (D)	215 (D)	
1/19/2017				215 (D)			145 (D)
2/21/2017	158	137				198	
2/22/2017				262	310		185
2/23/2017			253				
5/3/2017		269					
5/5/2017					289	347	
5/8/2017	207		174	187			114
6/30/2017			193	209			
7/5/2017					217		136
7/7/2017						236	
7/10/2017	219	183					
10/5/2017					221		139
10/6/2017				183			
10/9/2017			185			204	
10/10/2017	194	179					
6/11/2018							156
6/12/2018				208	234	243	
6/13/2018	228	196	219				
10/2/2018	227	191	227	206			154
10/3/2018					232	237	
4/1/2019			198	221	238		147
4/2/2019	223	224				<25	
9/25/2019	225	190					162
9/26/2019			198	225	241	239	
3/19/2020		194			212	202	
3/20/2020	211		195	182			137
9/24/2020	212	171	186	185	209	226	133

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
6/6/2016			120	58			
6/7/2016		28			38	60	
7/27/2016		74	94	35	74		
7/28/2016						81	
8/30/2016	319						
9/16/2016		67		35			
9/19/2016			92		45	68	
11/2/2016					53		
11/3/2016		41	104	48		61	
11/14/2016	280						
1/11/2017		104	133	95			
1/13/2017					46	76	
2/24/2017	162						
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					
5/8/2017	194						
6/28/2017			98	45			
6/29/2017		53			68	94	
7/11/2017	193						
10/3/2017						149	
10/4/2017		61		45	54		
10/5/2017			104				
10/10/2017	175						
10/11/2017							68
11/20/2017							139
1/11/2018							153
2/20/2018							87
4/2/2018	192						
4/3/2018							85
6/5/2018						109	
6/6/2018					79		
6/7/2018			68				
6/11/2018		70		74			
6/28/2018							88
8/7/2018							89
9/19/2018	186						
9/24/2018							82
9/25/2018		86	109	63	73	122	
3/27/2019	170						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			
10/8/2019	172						
10/9/2019							119
3/17/2020	165						
3/24/2020		71	91	59	76	117	
3/25/2020							158

Time Series

Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-47 (bg)	YGWA-17S (bg)	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-21I (bg)	YGWA-39 (bg)
9/22/2020	141						
9/23/2020		99	103	81			
9/24/2020					69	113	170

Time Series

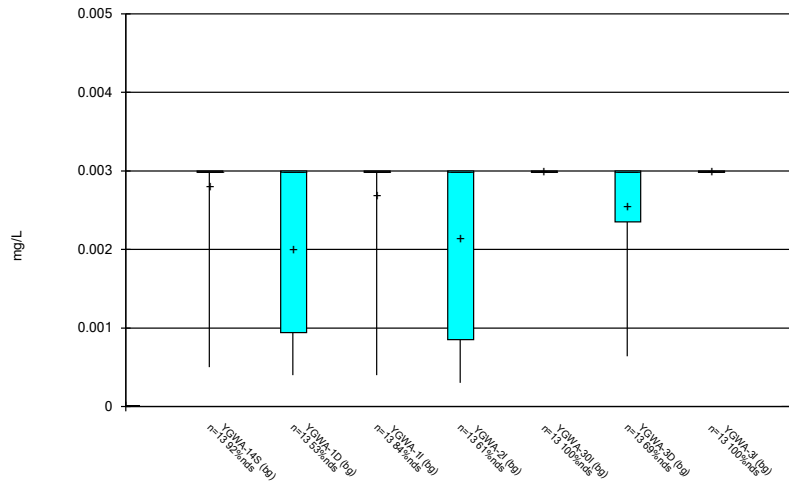
Constituent: Total Dissolved Solids (mg/L) Analysis Run 1/27/2021 10:01 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-40 (bg)	YGWA-4I (bg)	YGWA-5D (bg)	YGWA-5I (bg)	GWA-2 (bg)
6/2/2016		96	160	66	
7/26/2016		92	177	78	
8/31/2016					209
9/14/2016		102	187	73	
11/2/2016		115	181		
11/4/2016				75	
11/28/2016					102
1/12/2017			202	86	
1/13/2017		67			
2/22/2017					164
3/6/2017		159			
3/7/2017			257	108	
5/1/2017		107	165		
5/2/2017				103	
5/8/2017					145
6/27/2017			189	73	
6/29/2017		79			
7/17/2017					185
10/3/2017			170	89	
10/5/2017		95			
10/12/2017	74				
10/16/2017					218
11/20/2017	179				
1/10/2018	140				
2/19/2018	119				173
4/3/2018	106				
6/6/2018			151		
6/7/2018		90		142	
6/28/2018	112				
8/6/2018					158
8/7/2018	103				
9/24/2018	107				
9/26/2018		116	144	86	
2/25/2019					92
3/26/2019	90				
4/3/2019		111	142	83	
6/12/2019					226
9/24/2019			129	79	
9/25/2019		117			
10/8/2019					276
10/9/2019	98				
3/17/2020					185
3/24/2020	84		139	68	
3/25/2020		146			
9/22/2020		83	104	75	281
9/24/2020	77				

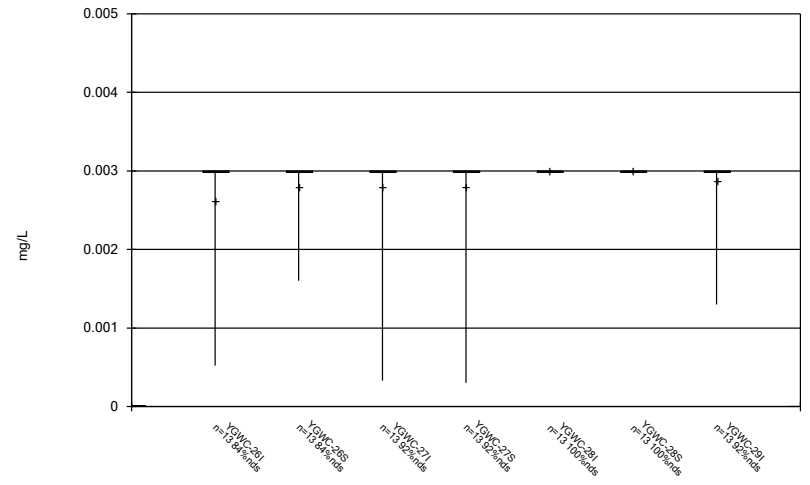
FIGURE B.

Box & Whiskers Plot



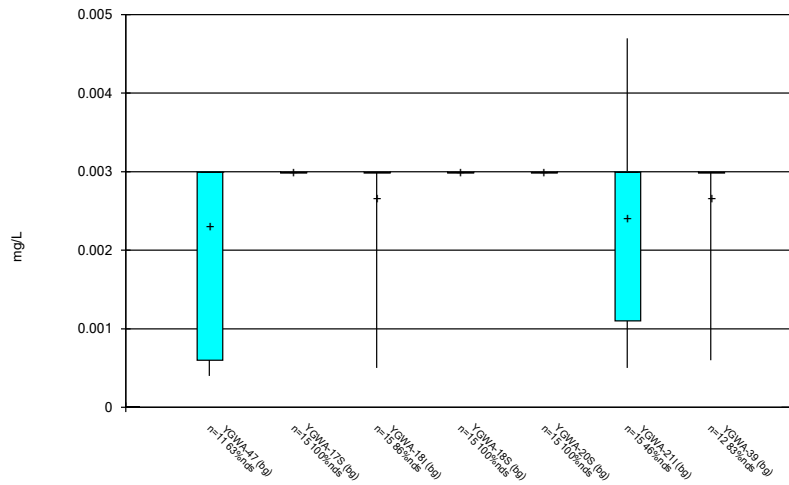
Constituent: Antimony Analysis Run 1/27/2021 10:02 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



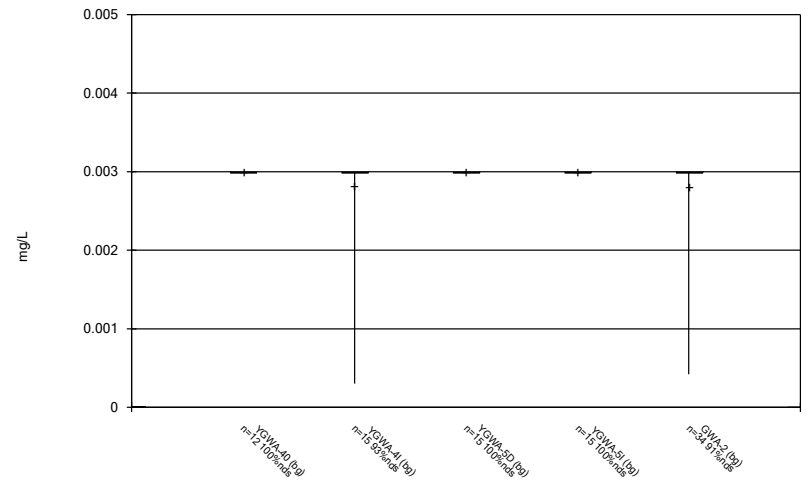
Constituent: Antimony Analysis Run 1/27/2021 10:02 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



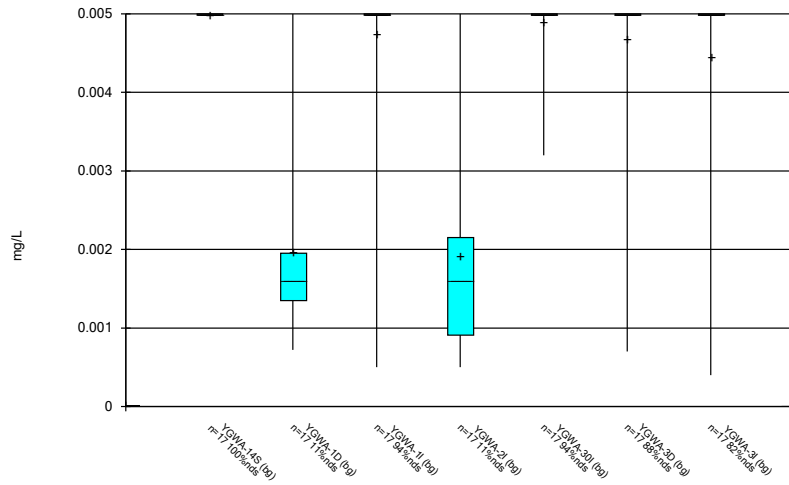
Constituent: Antimony Analysis Run 1/27/2021 10:02 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



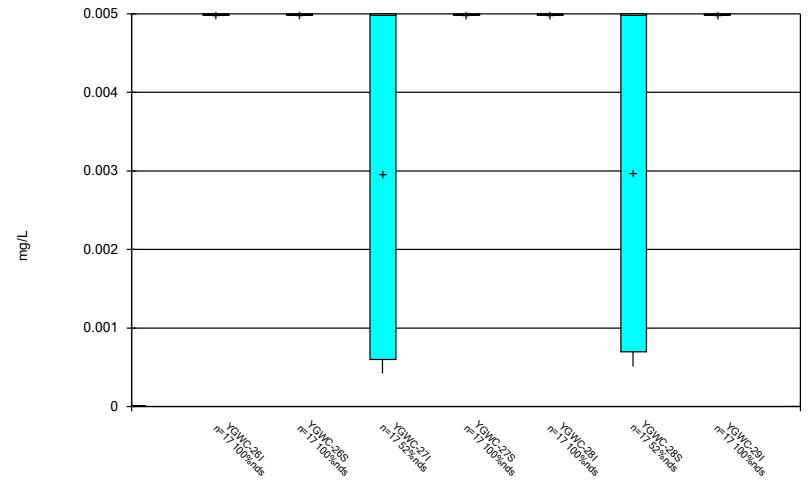
Constituent: Antimony Analysis Run 1/27/2021 10:02 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



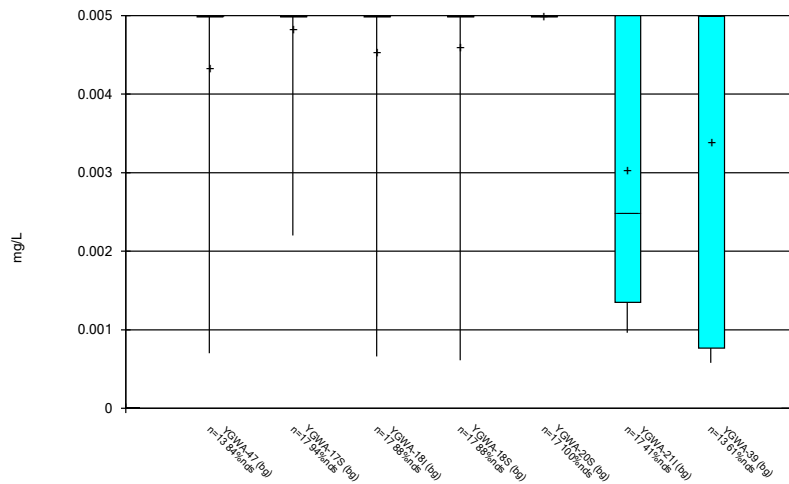
Constituent: Arsenic Analysis Run 1/27/2021 10:02 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



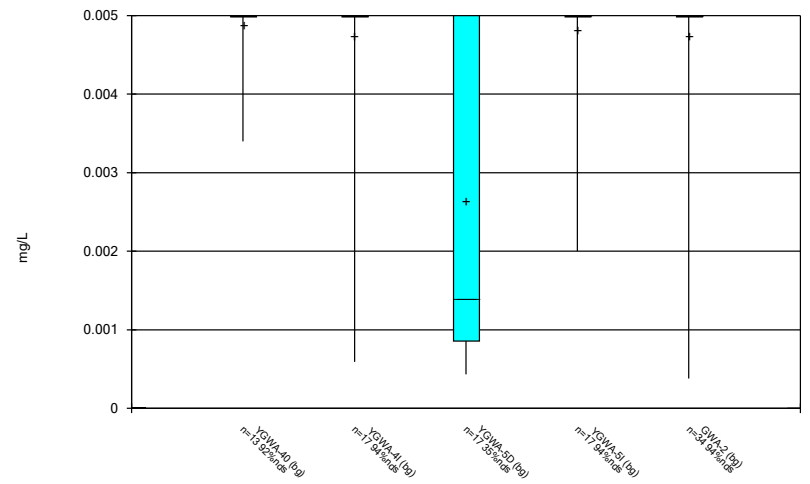
Constituent: Arsenic Analysis Run 1/27/2021 10:02 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



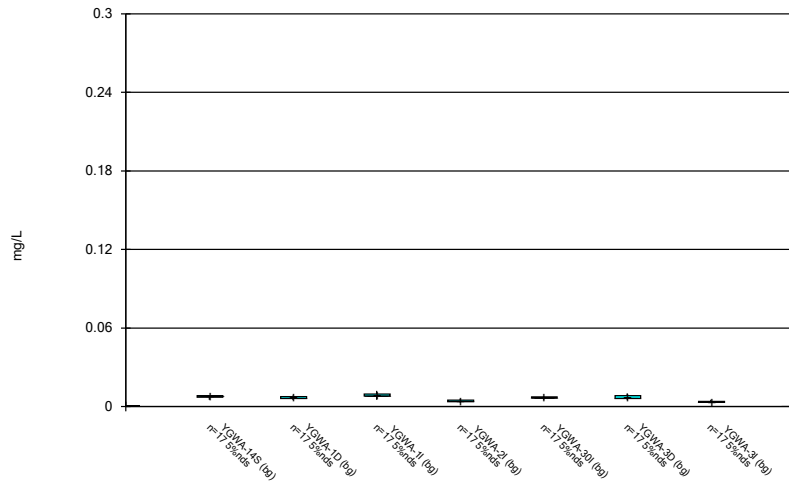
Constituent: Arsenic Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



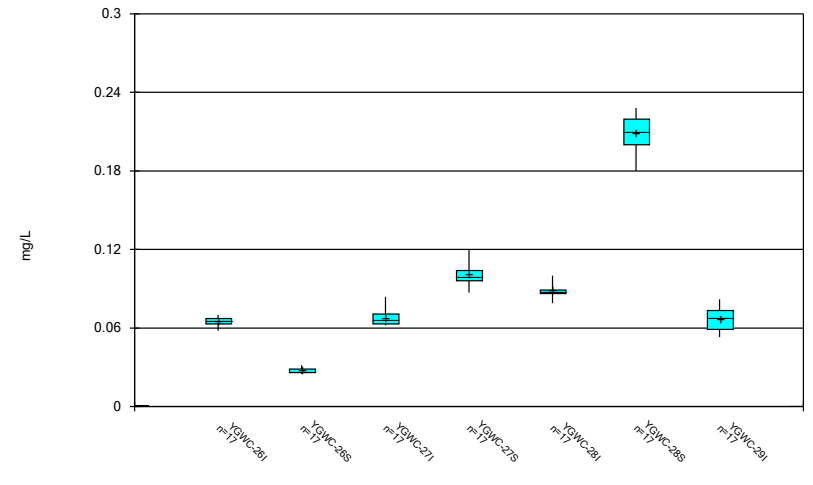
Constituent: Arsenic Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



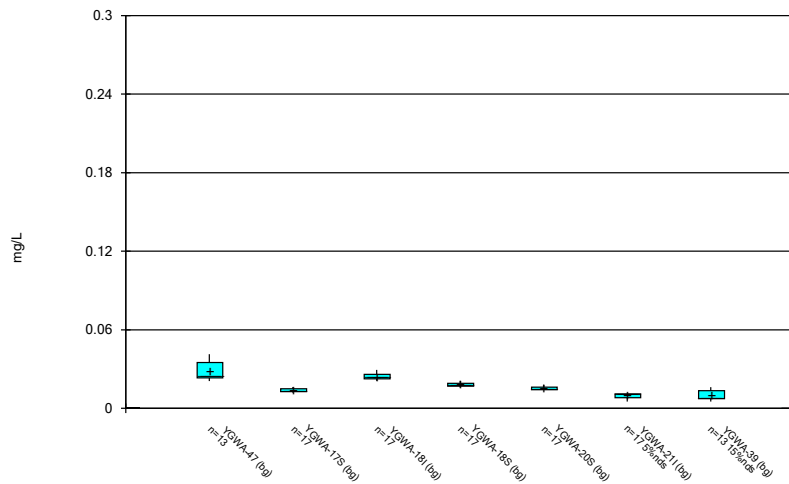
Constituent: Barium Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



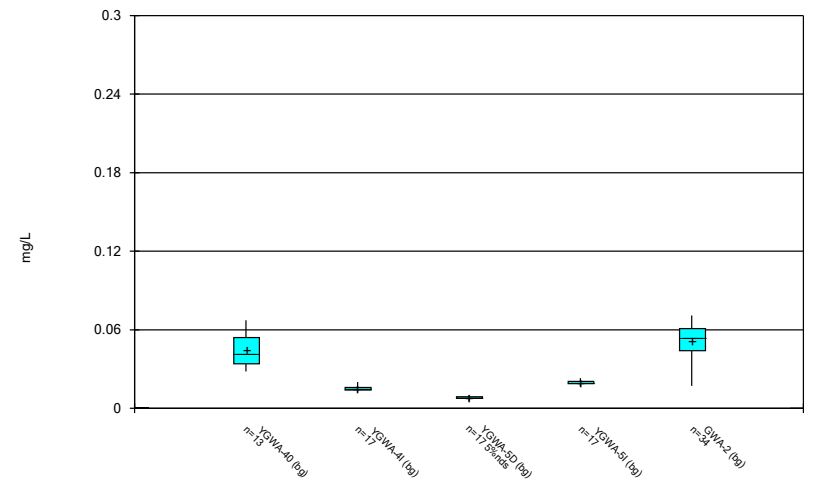
Constituent: Barium Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



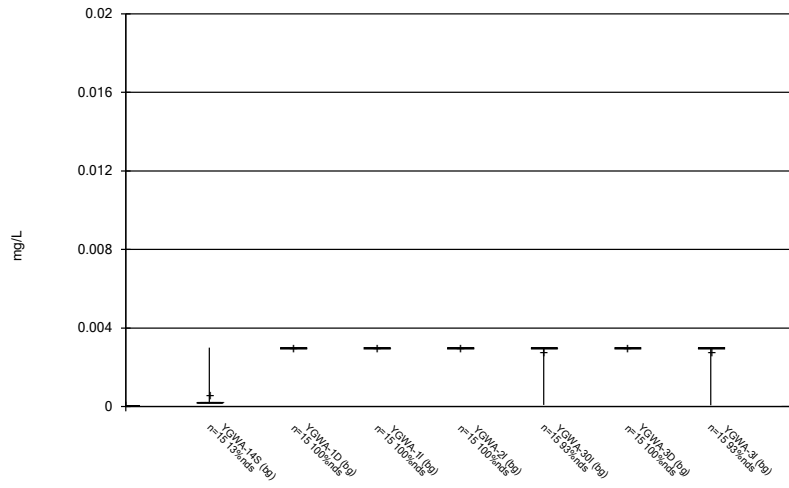
Constituent: Barium Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



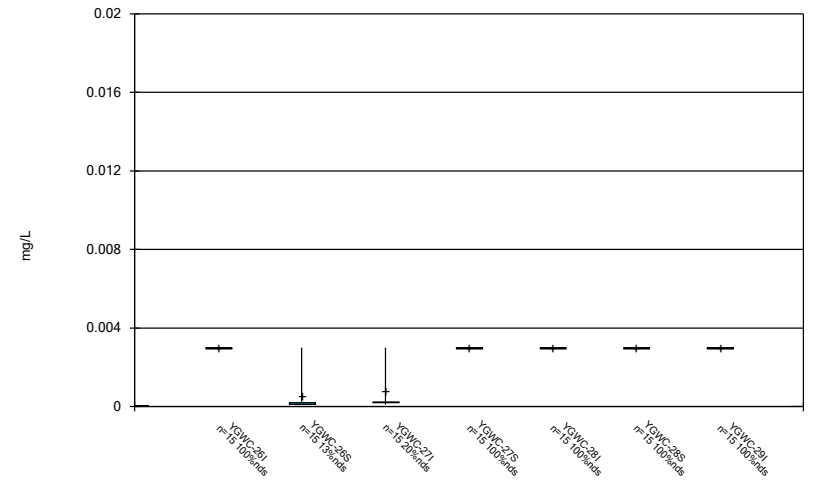
Constituent: Barium Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



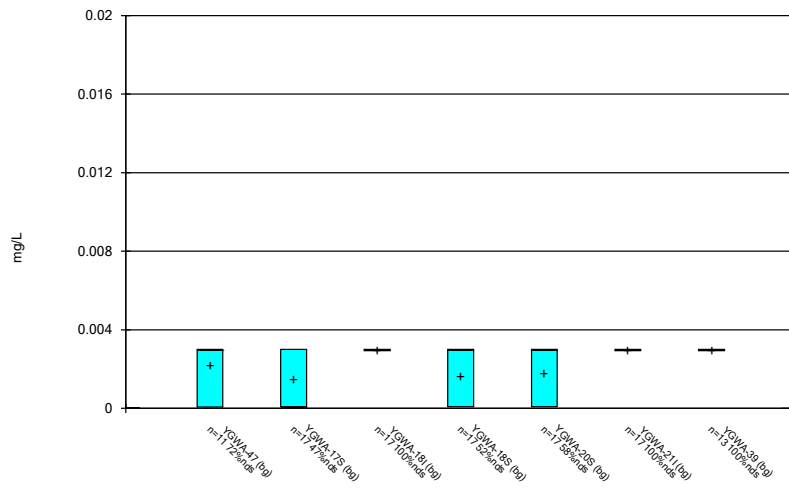
Constituent: Beryllium Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



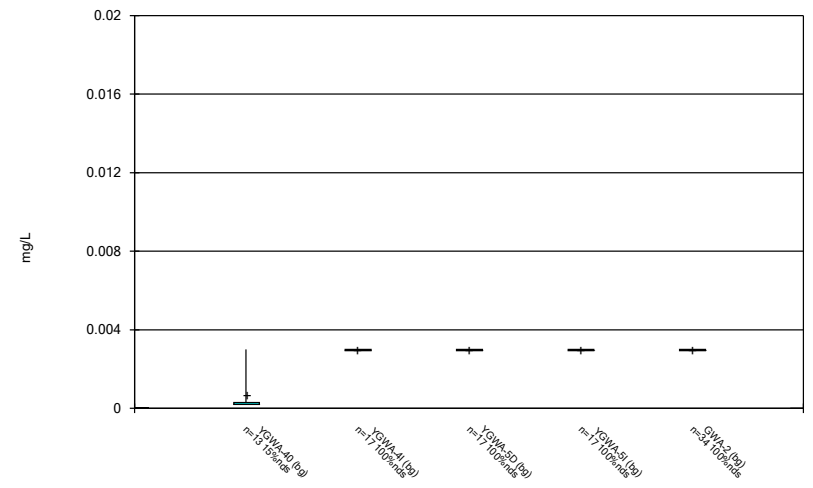
Constituent: Beryllium Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



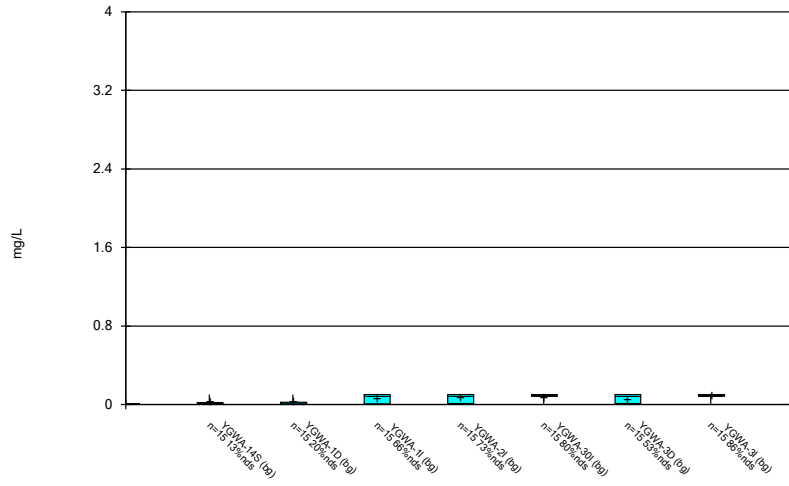
Constituent: Beryllium Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



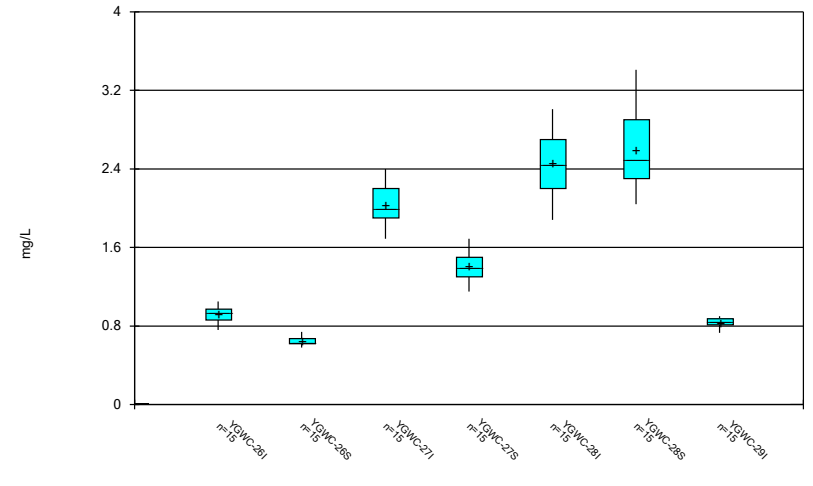
Constituent: Beryllium Analysis Run 1/27/2021 10:03 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



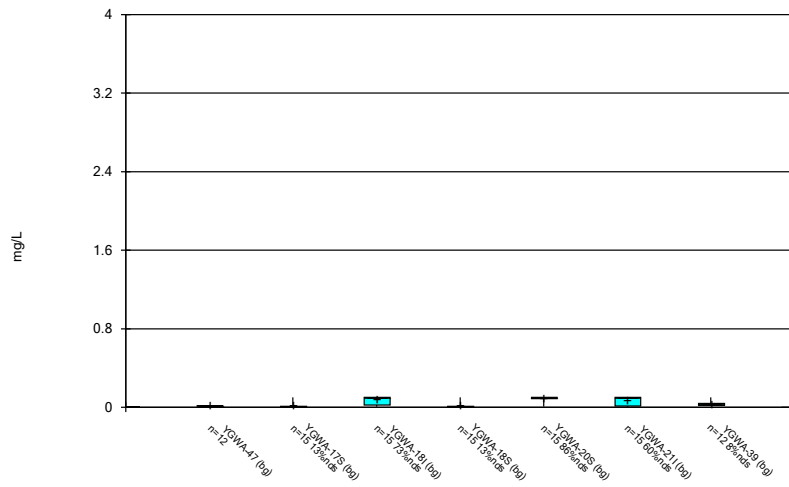
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



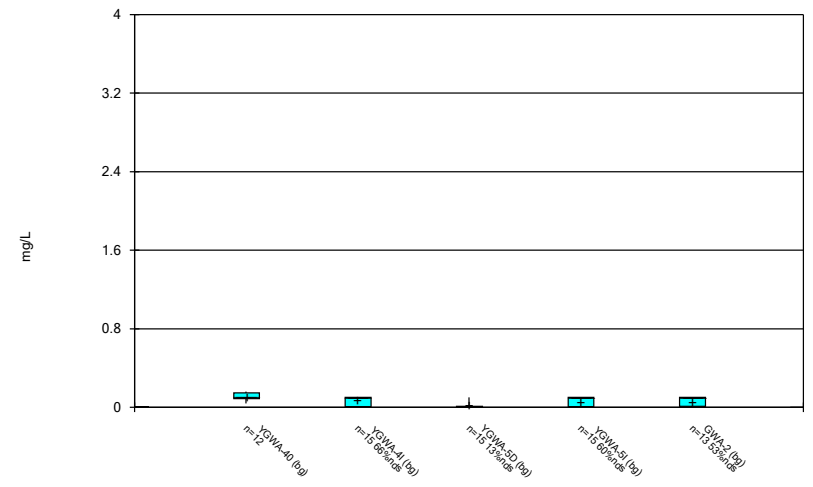
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Box & Whiskers Plot



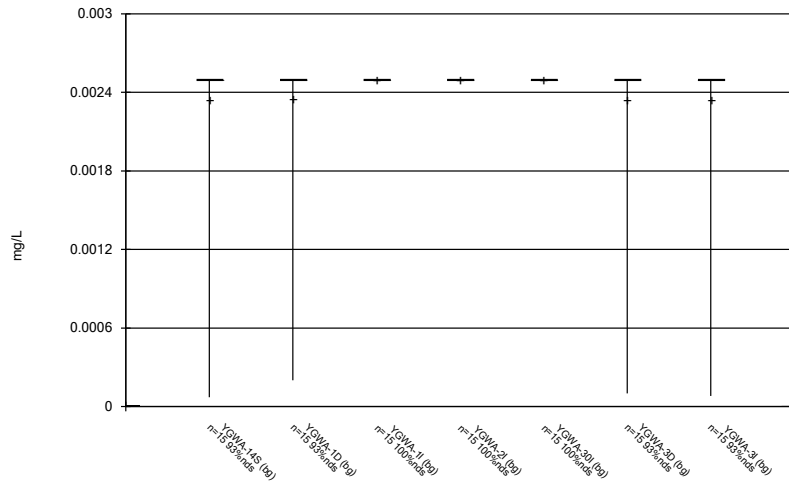
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Box & Whiskers Plot



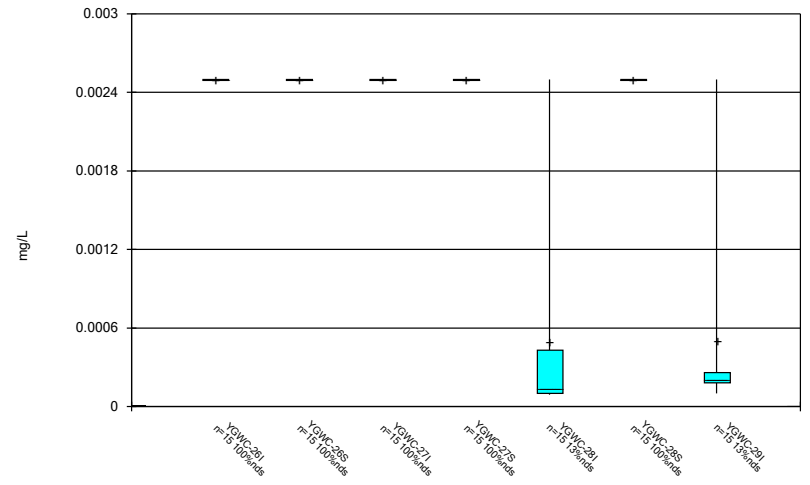
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Box & Whiskers Plot



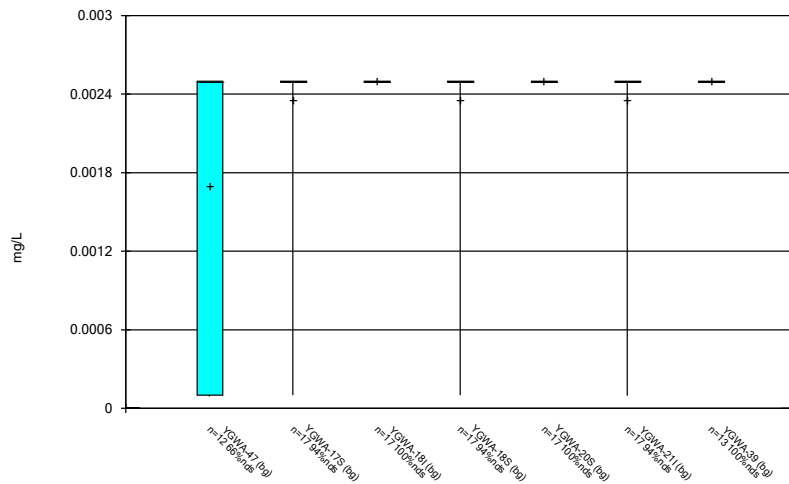
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Box & Whiskers Plot



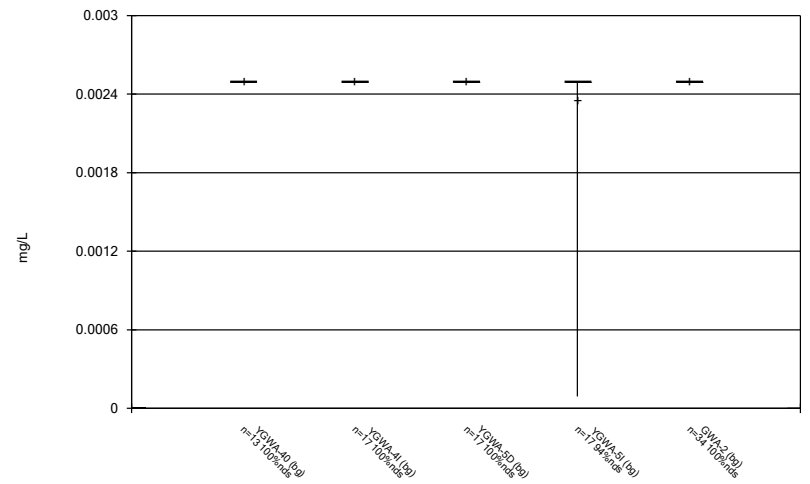
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Box & Whiskers Plot



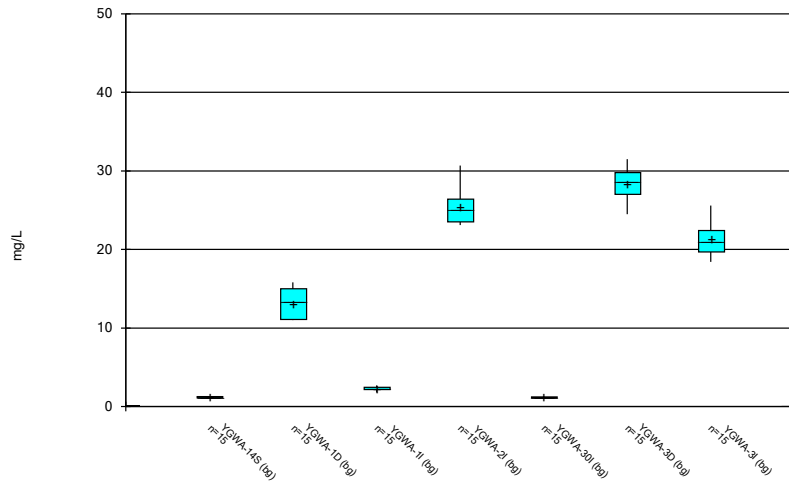
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Box & Whiskers Plot



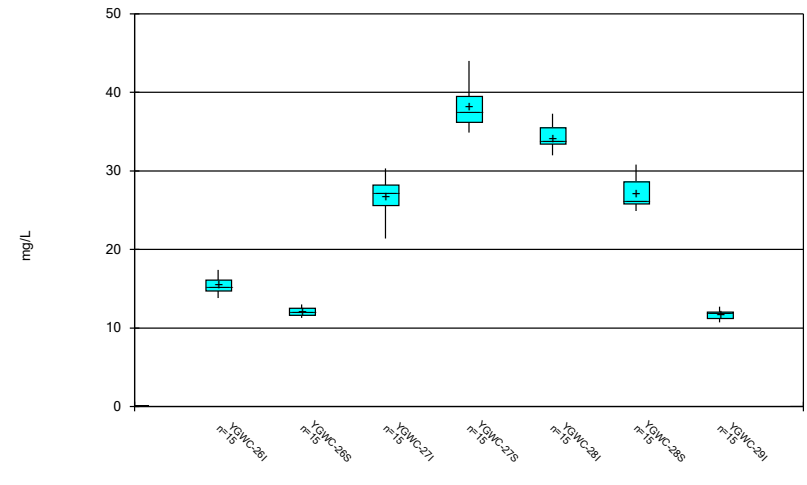
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Box & Whiskers Plot



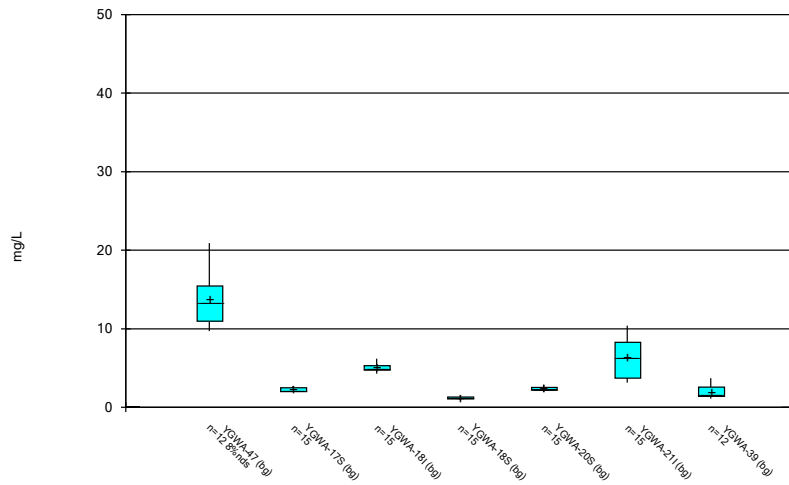
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Box & Whiskers Plot



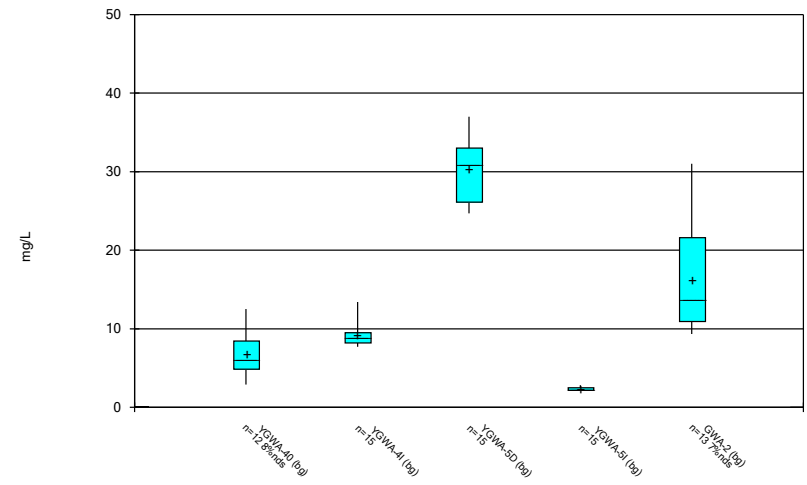
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Box & Whiskers Plot



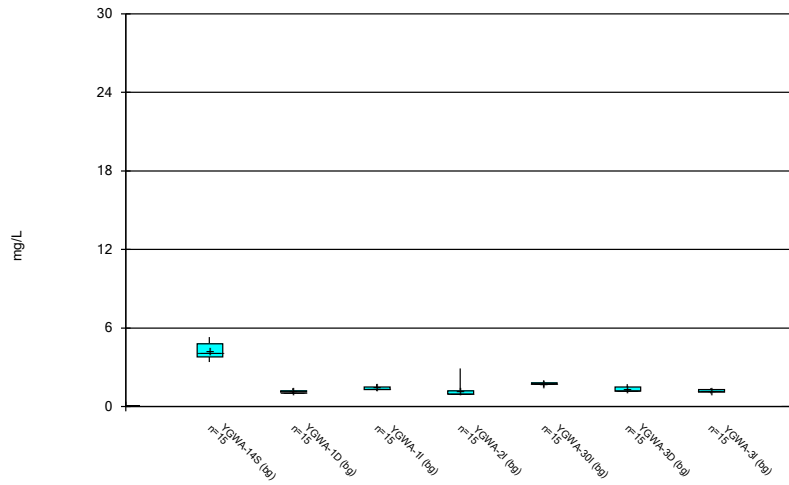
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Box & Whiskers Plot



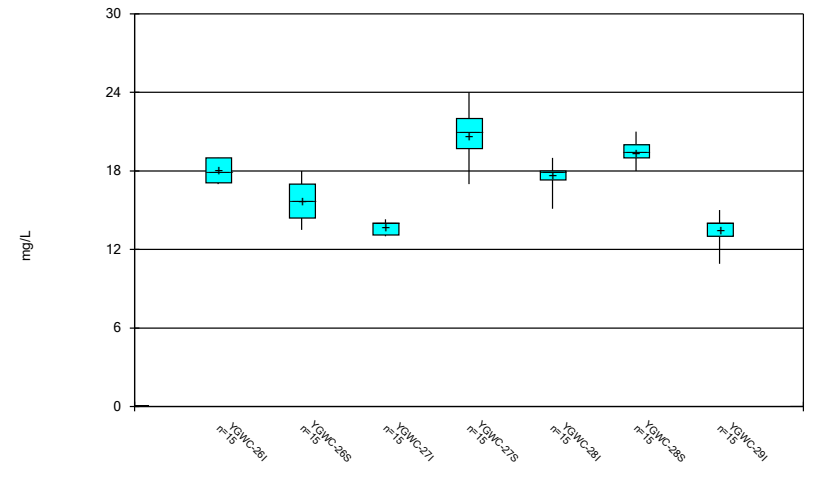
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Box & Whiskers Plot



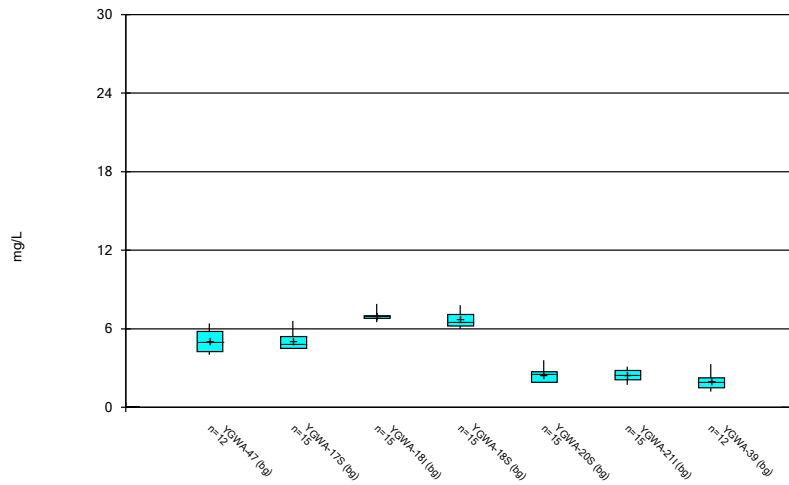
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Box & Whiskers Plot



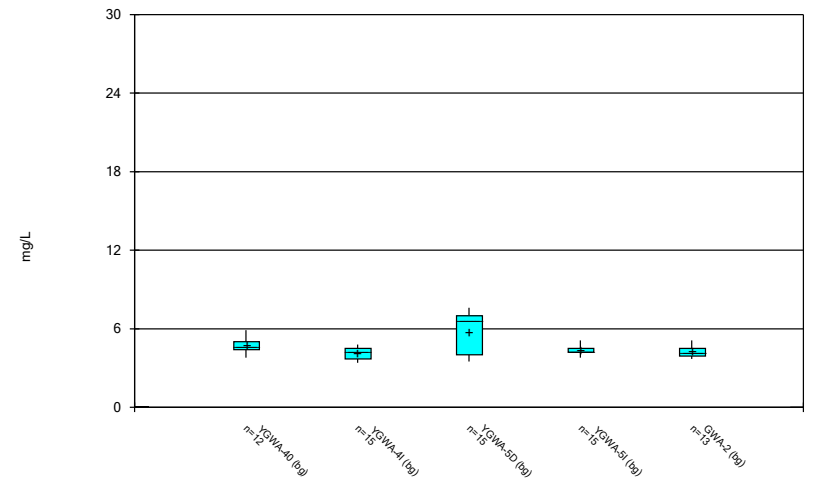
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Box & Whiskers Plot



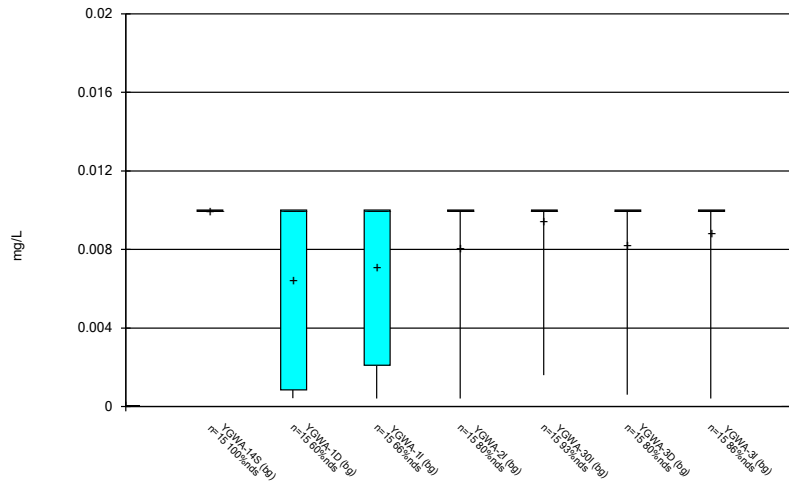
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Box & Whiskers Plot



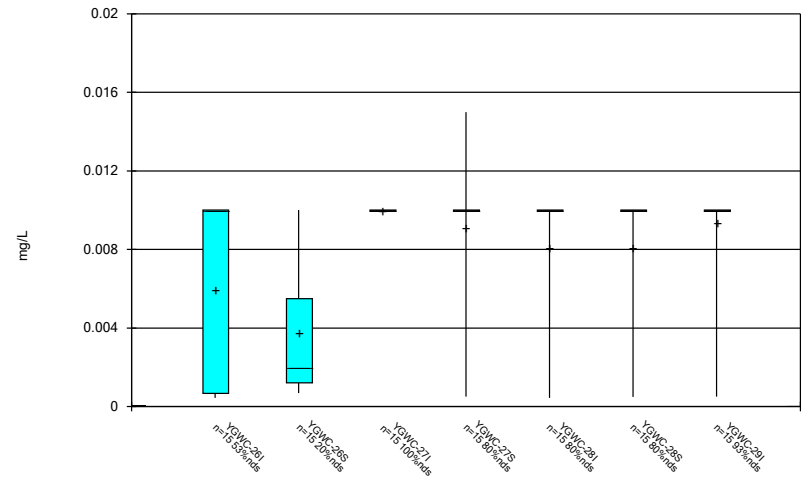
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Box & Whiskers Plot



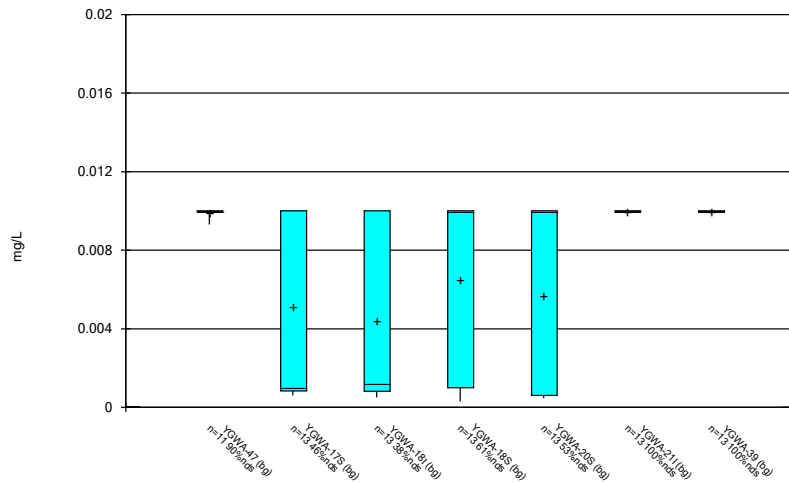
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Box & Whiskers Plot



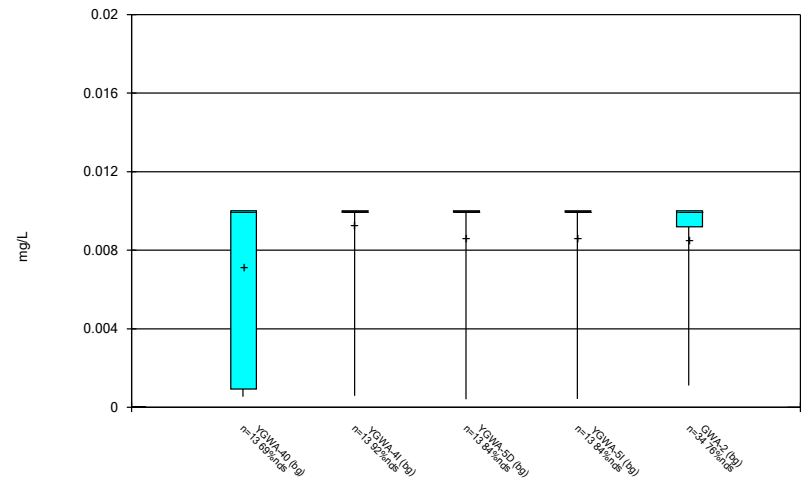
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Box & Whiskers Plot



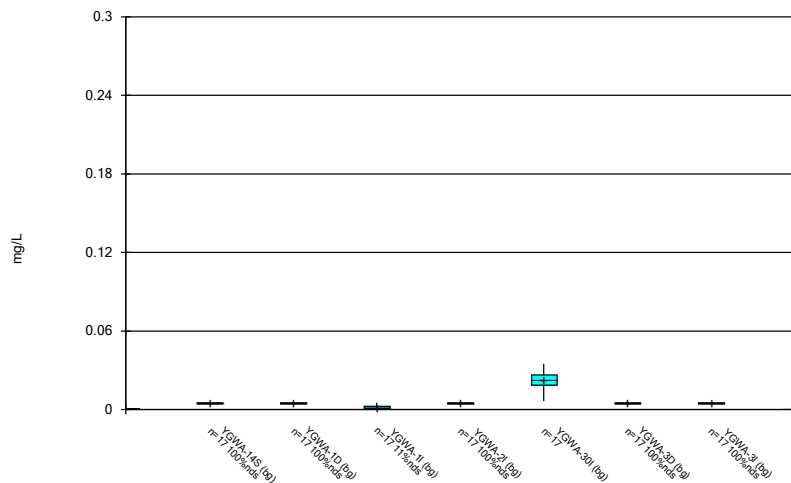
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Box & Whiskers Plot



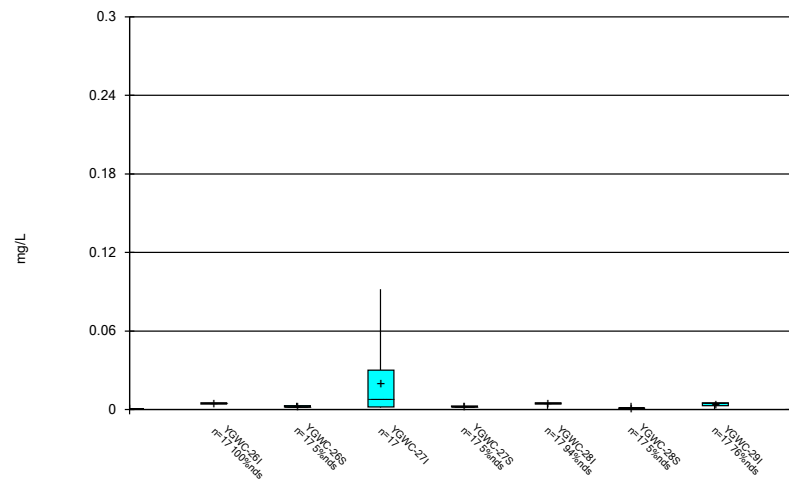
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Box & Whiskers Plot



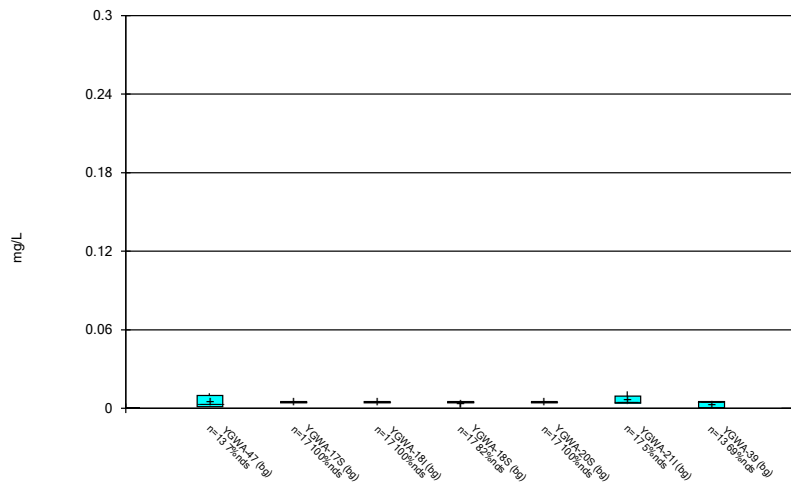
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Box & Whiskers Plot



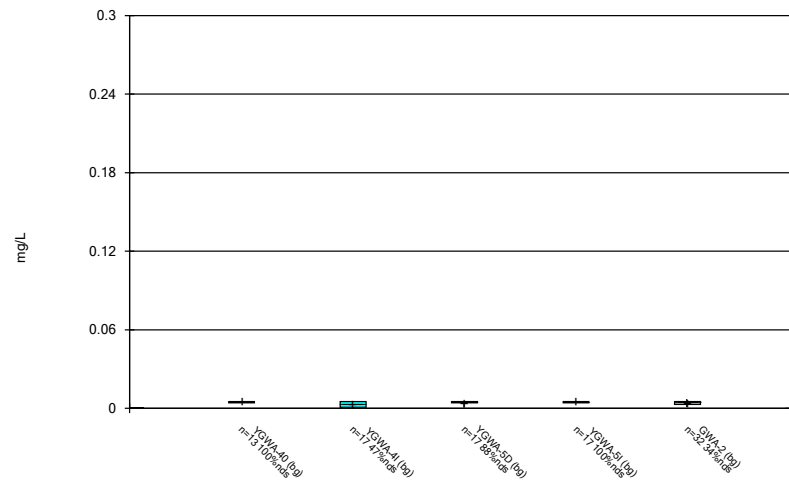
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Box & Whiskers Plot



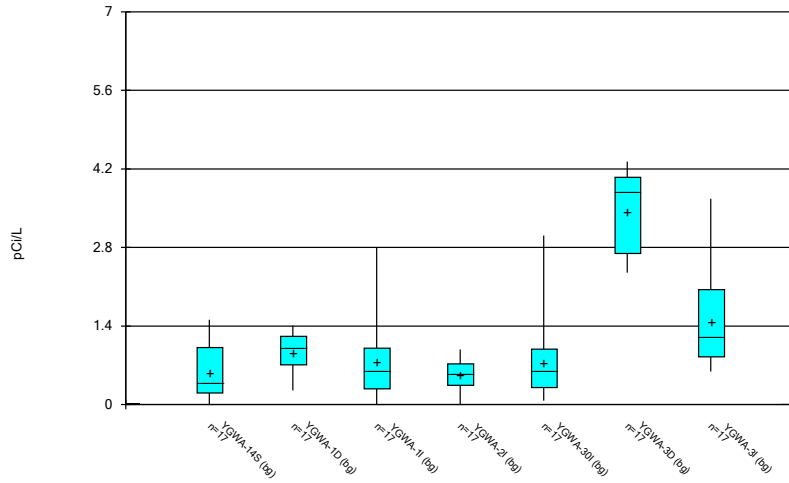
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Box & Whiskers Plot



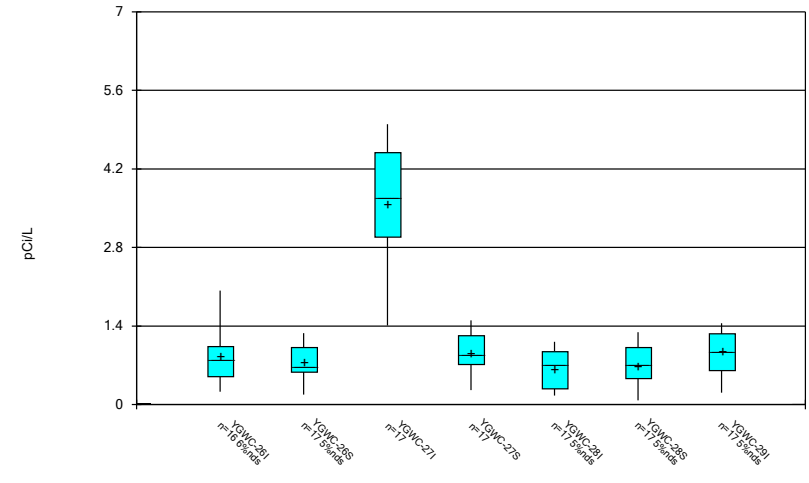
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Box & Whiskers Plot



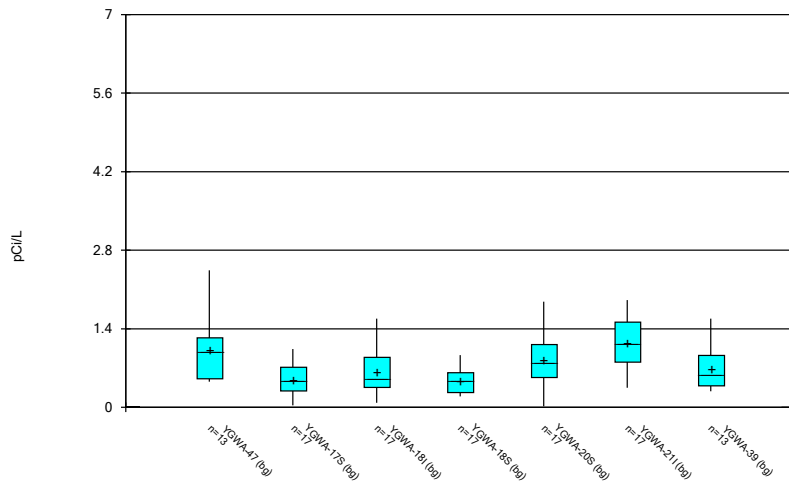
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



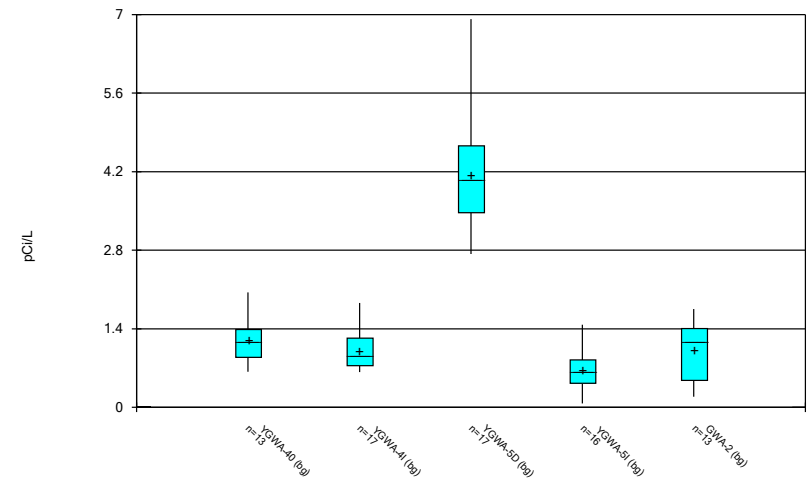
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Box & Whiskers Plot



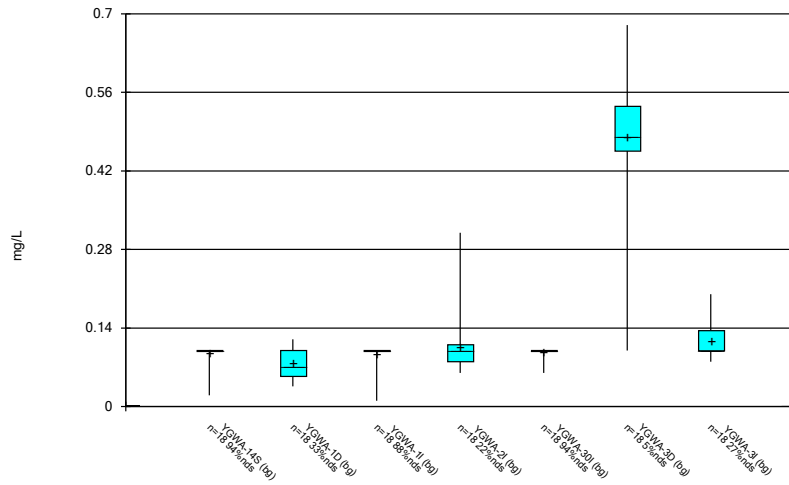
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Box & Whiskers Plot



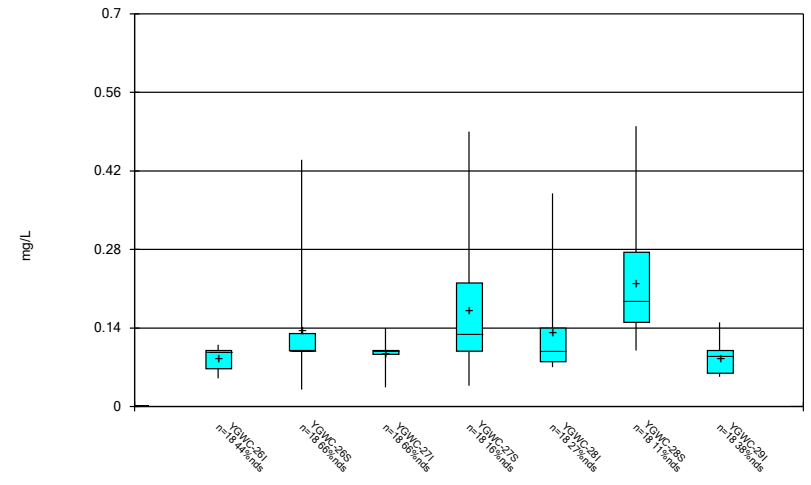
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Box & Whiskers Plot



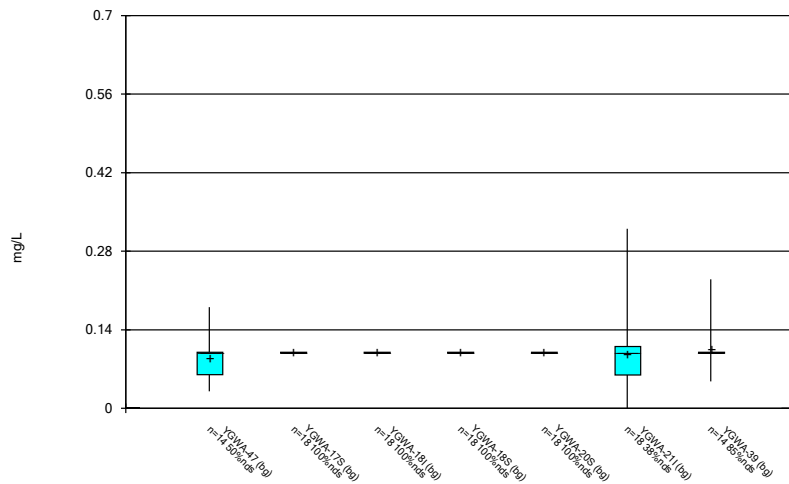
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Box & Whiskers Plot



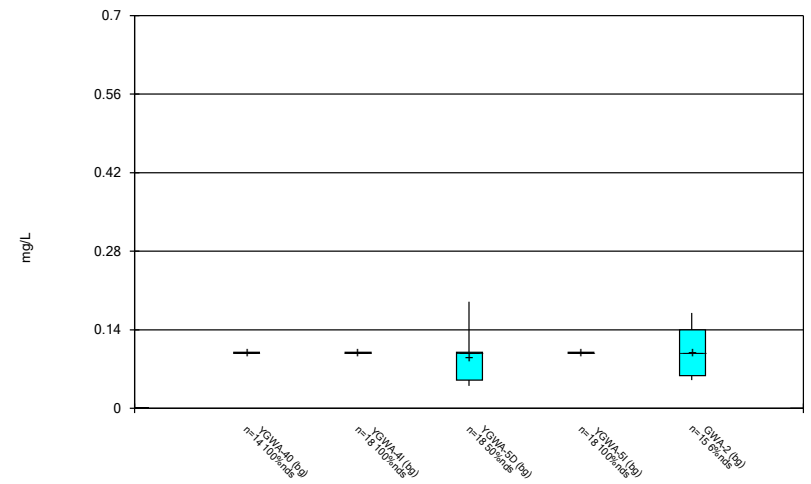
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Box & Whiskers Plot



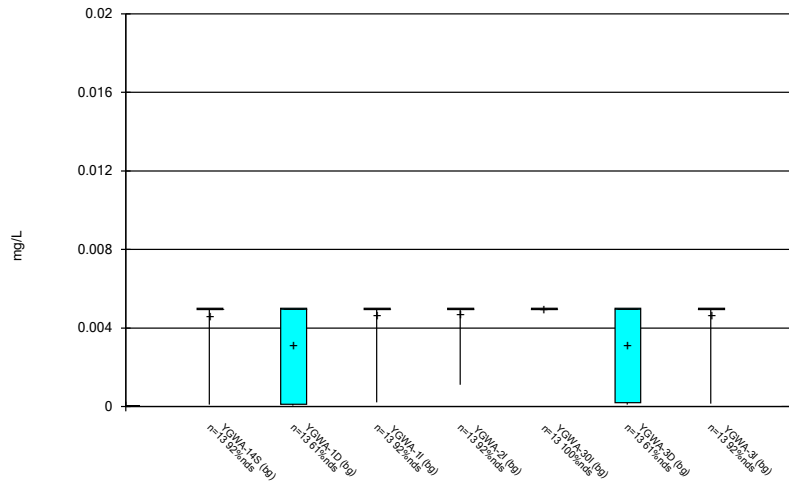
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Box & Whiskers Plot



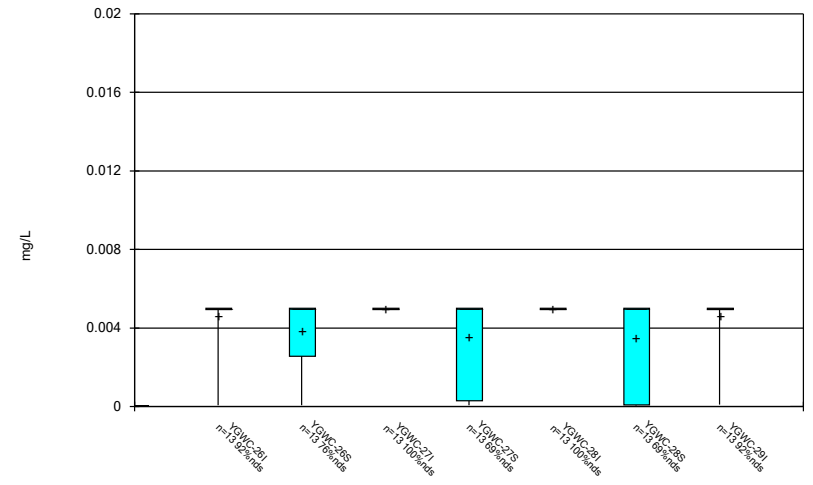
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Box & Whiskers Plot



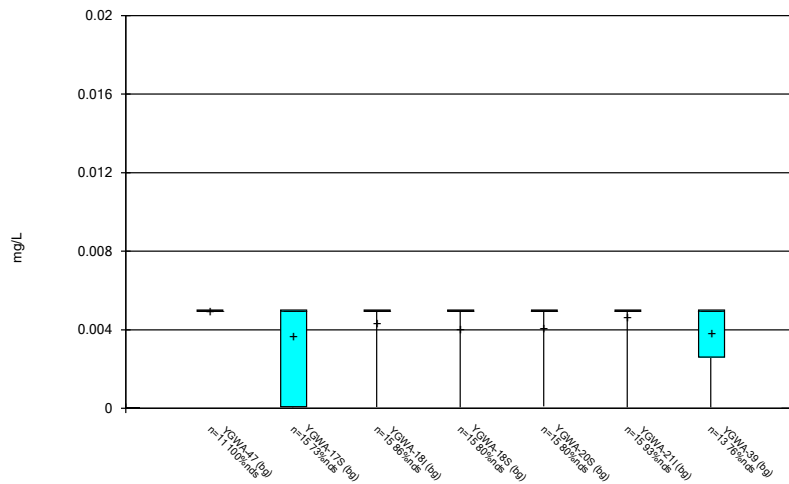
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Box & Whiskers Plot



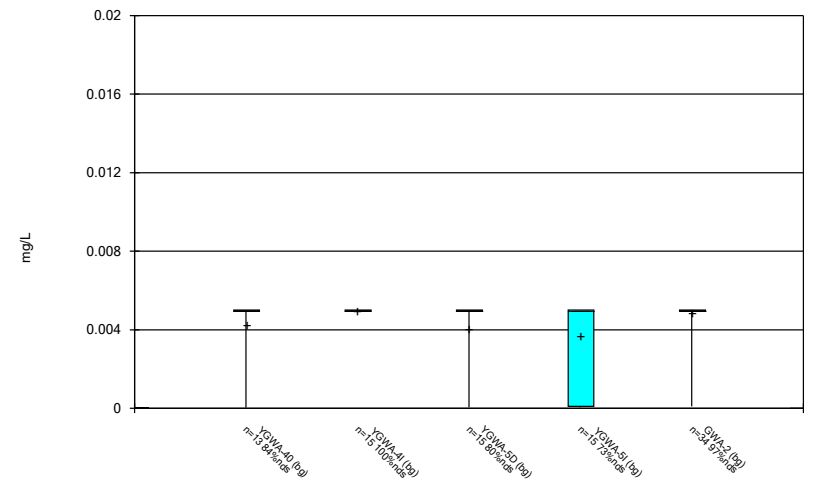
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Box & Whiskers Plot



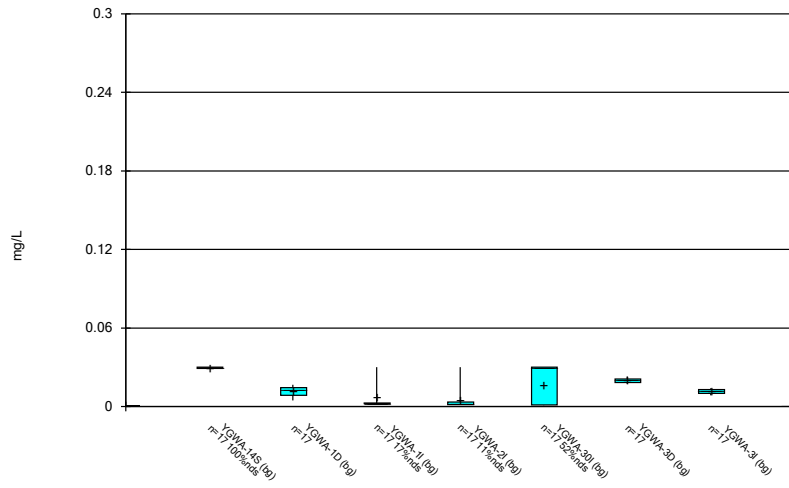
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Box & Whiskers Plot



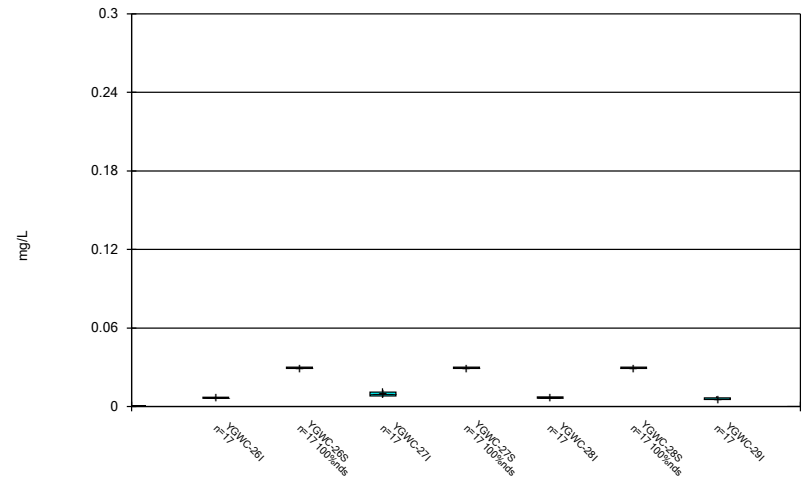
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Box & Whiskers Plot



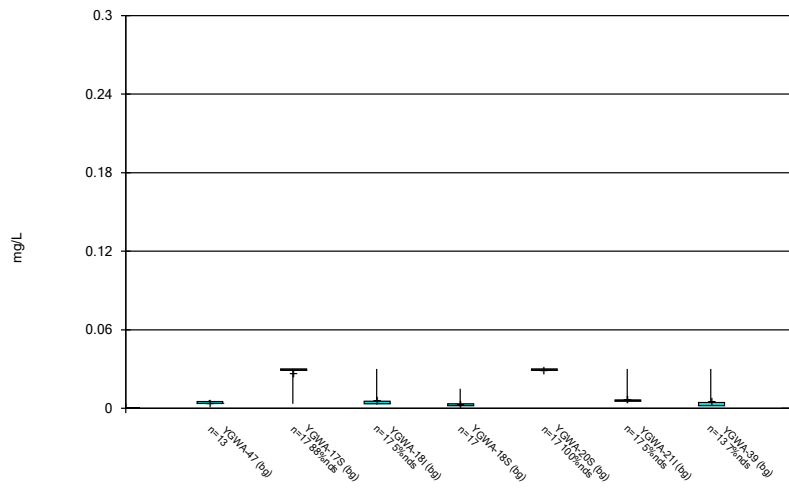
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Box & Whiskers Plot



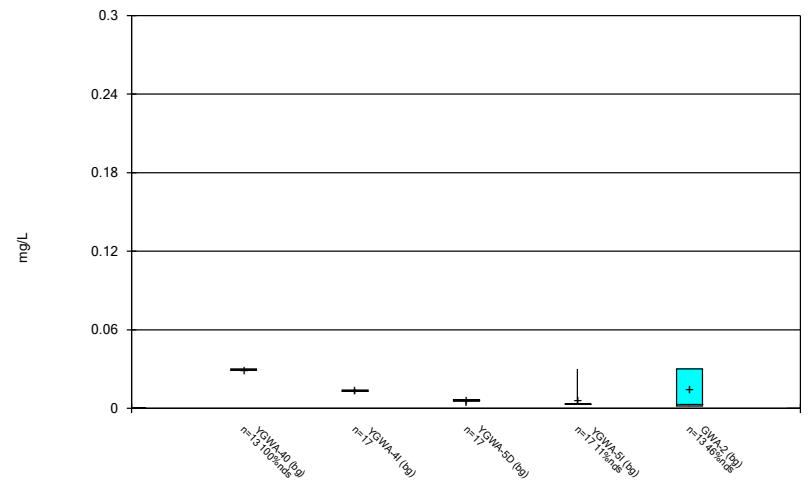
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Box & Whiskers Plot



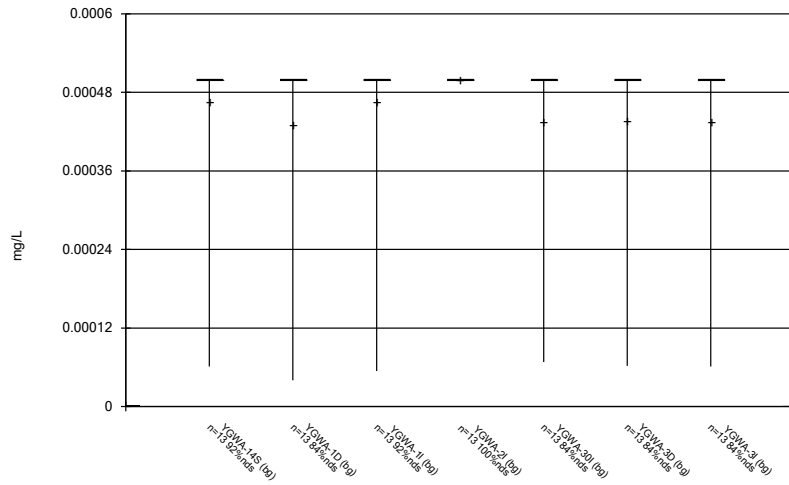
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Box & Whiskers Plot



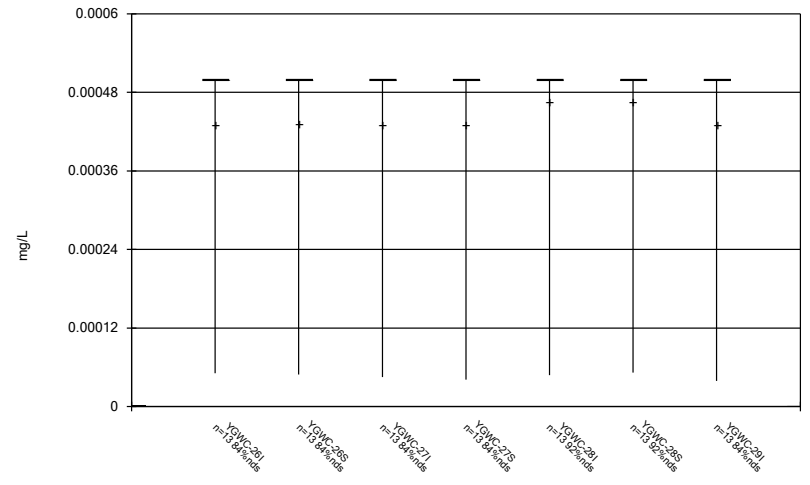
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Box & Whiskers Plot



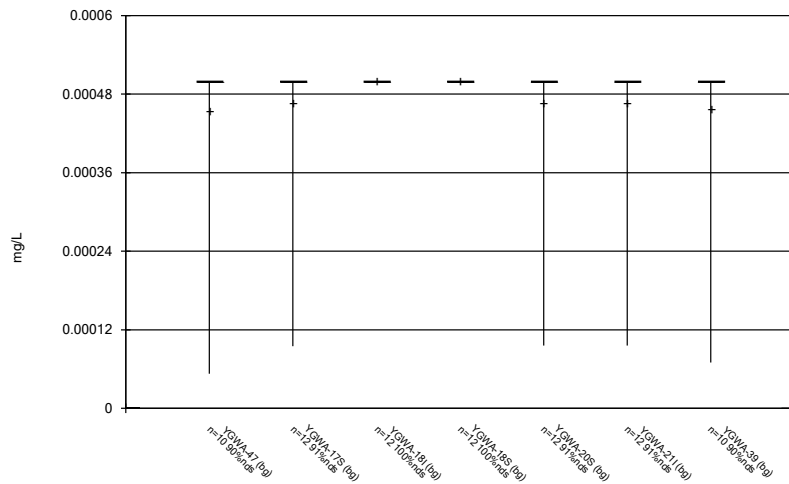
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Box & Whiskers Plot



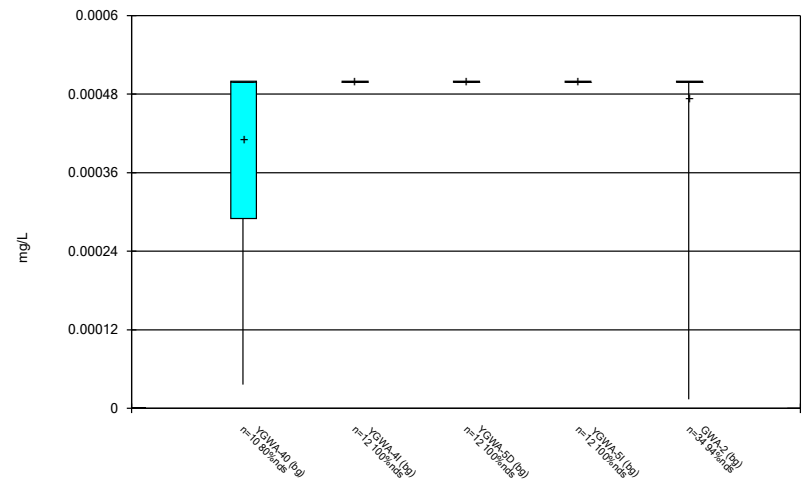
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Box & Whiskers Plot



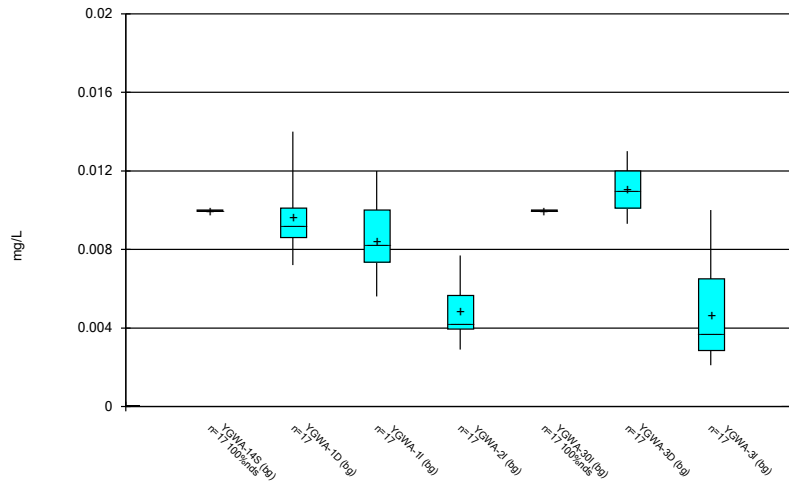
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Box & Whiskers Plot



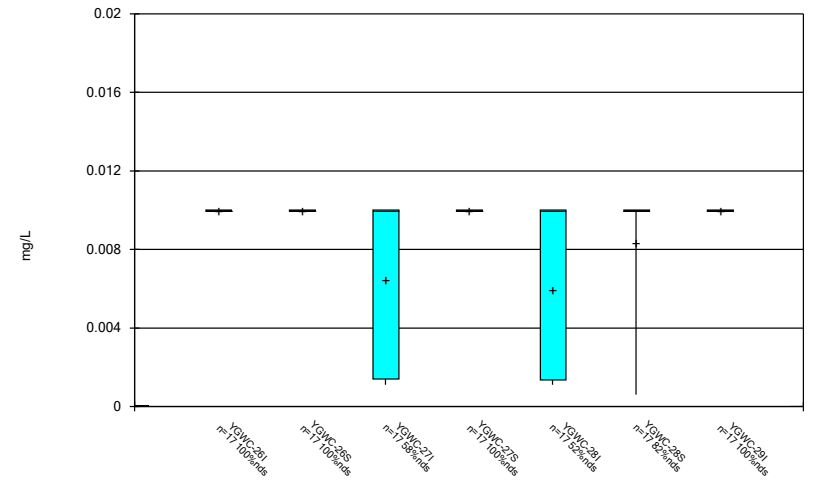
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Box & Whiskers Plot



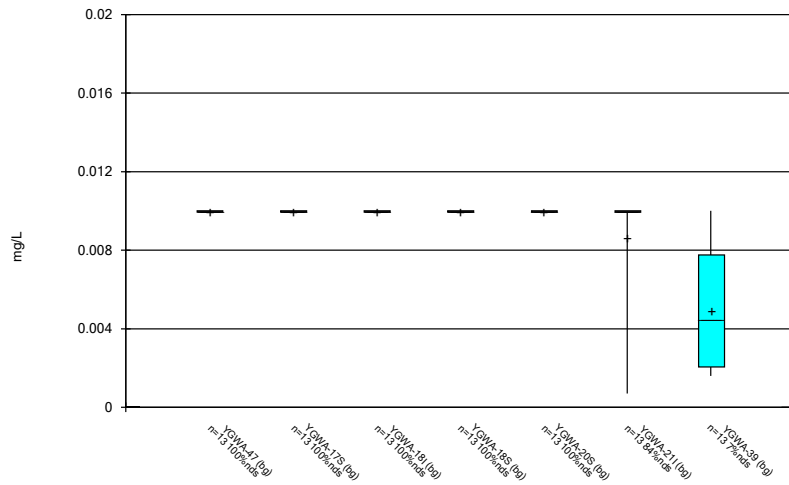
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Box & Whiskers Plot



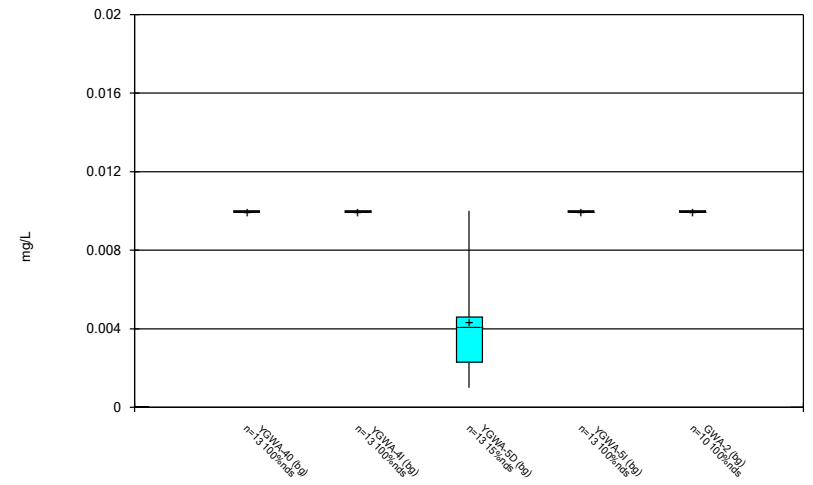
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Box & Whiskers Plot



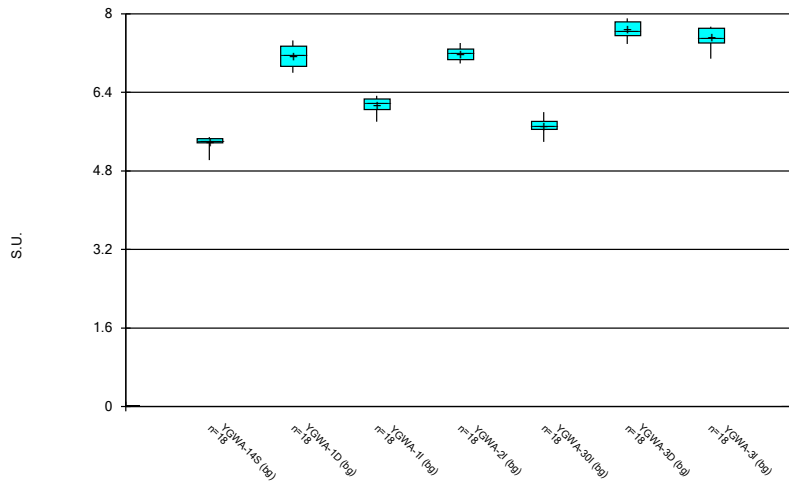
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Box & Whiskers Plot



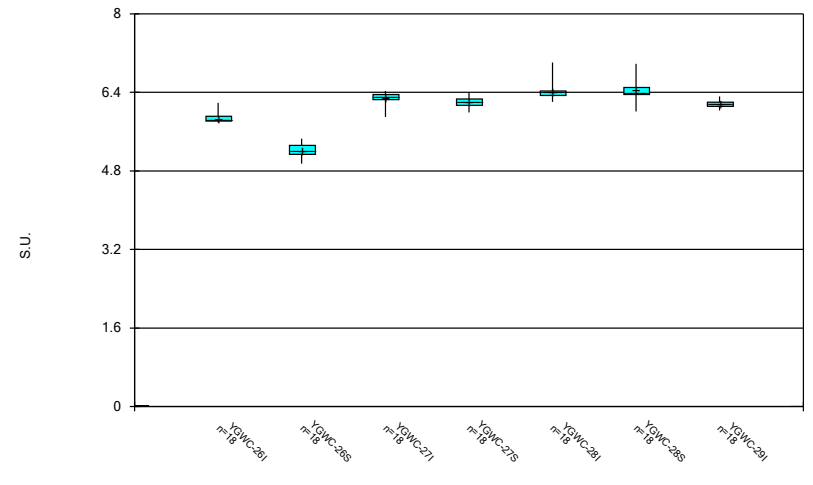
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Box & Whiskers Plot



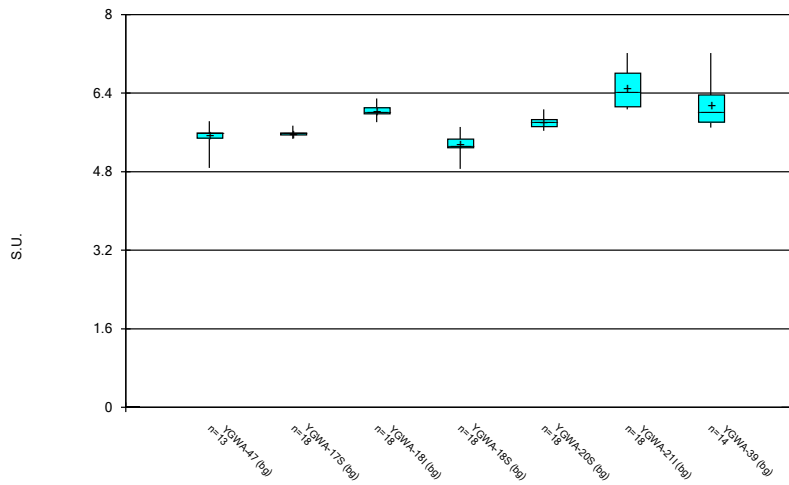
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Box & Whiskers Plot



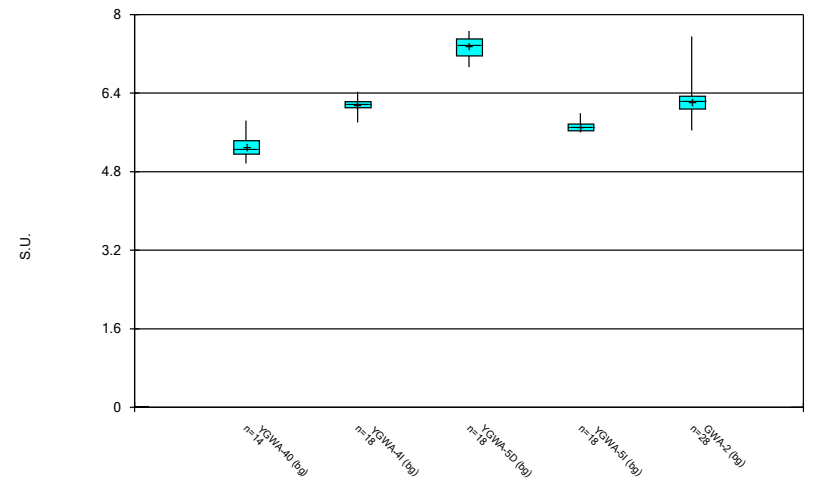
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Box & Whiskers Plot



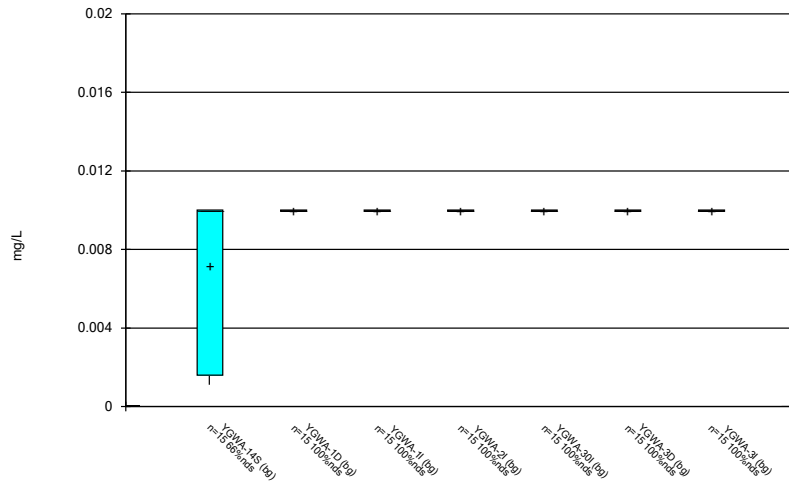
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Box & Whiskers Plot



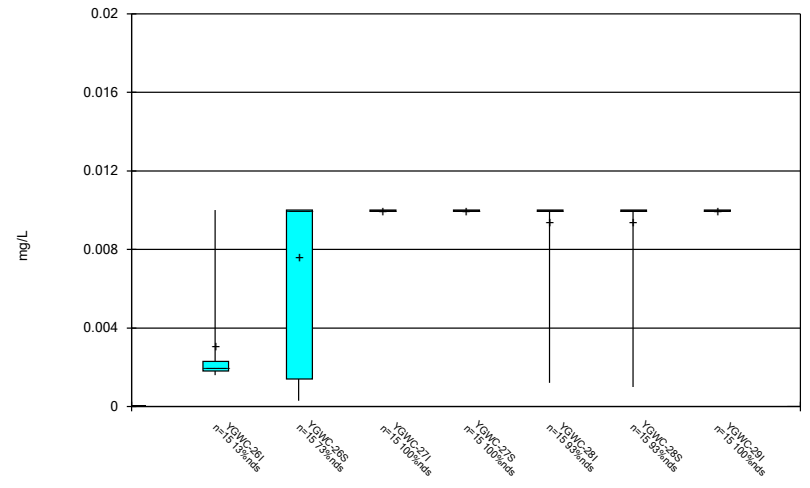
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Box & Whiskers Plot



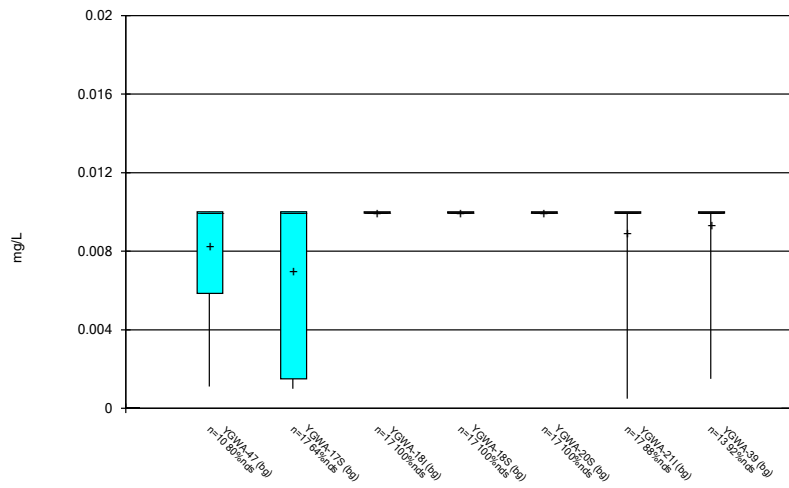
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Box & Whiskers Plot



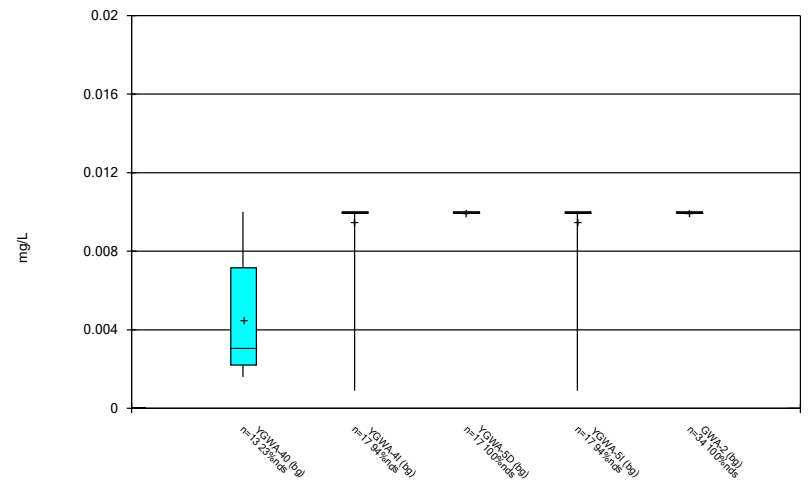
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Box & Whiskers Plot



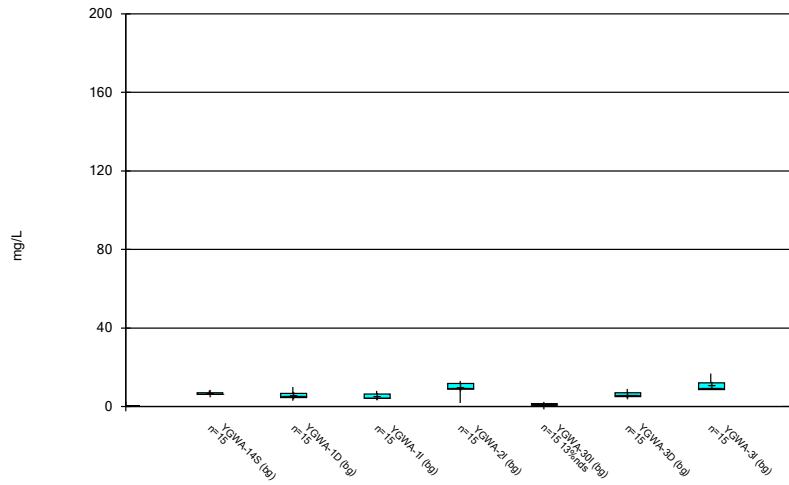
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Box & Whiskers Plot



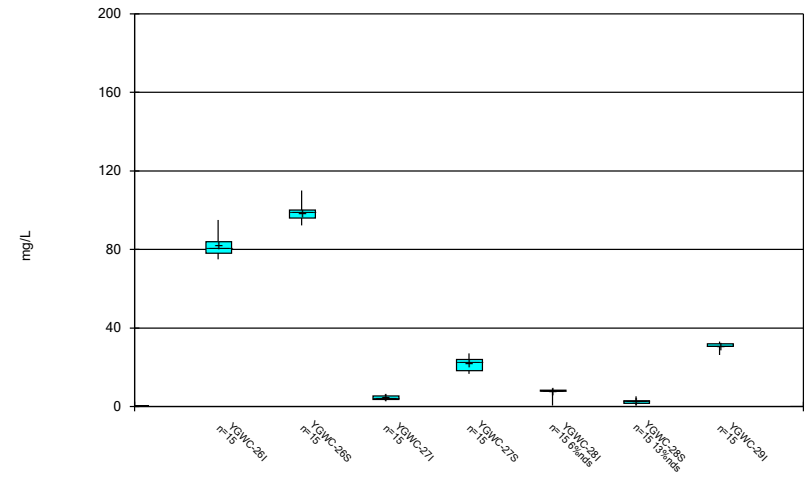
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Box & Whiskers Plot



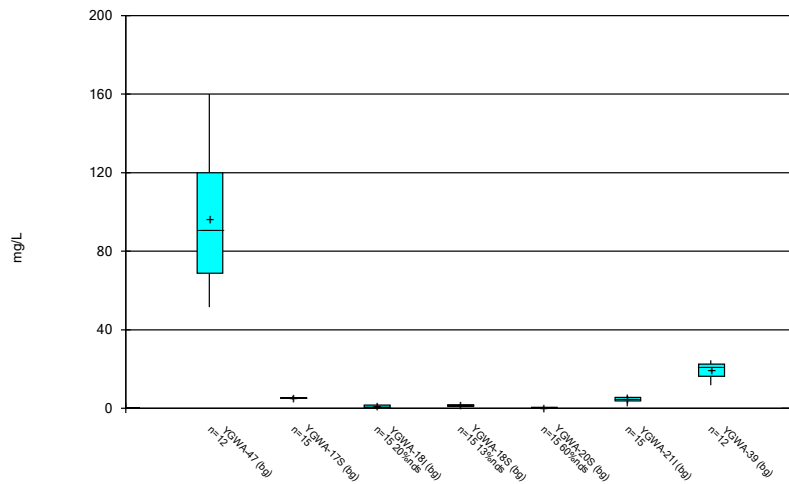
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Box & Whiskers Plot



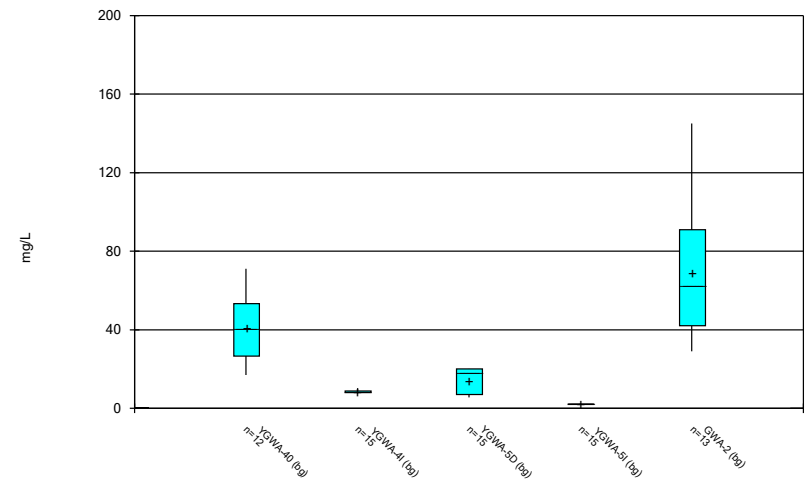
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Box & Whiskers Plot



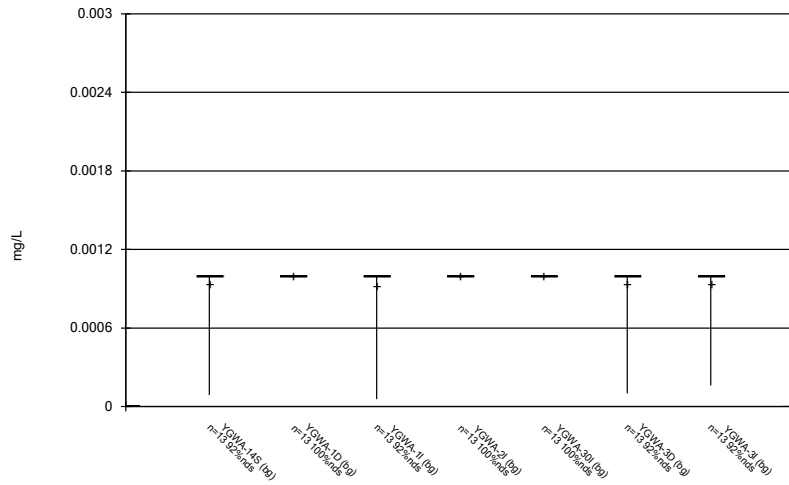
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Box & Whiskers Plot



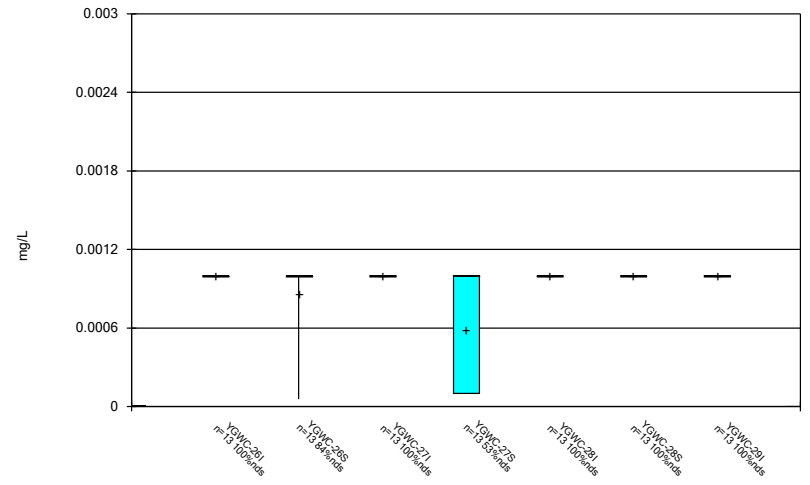
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Box & Whiskers Plot



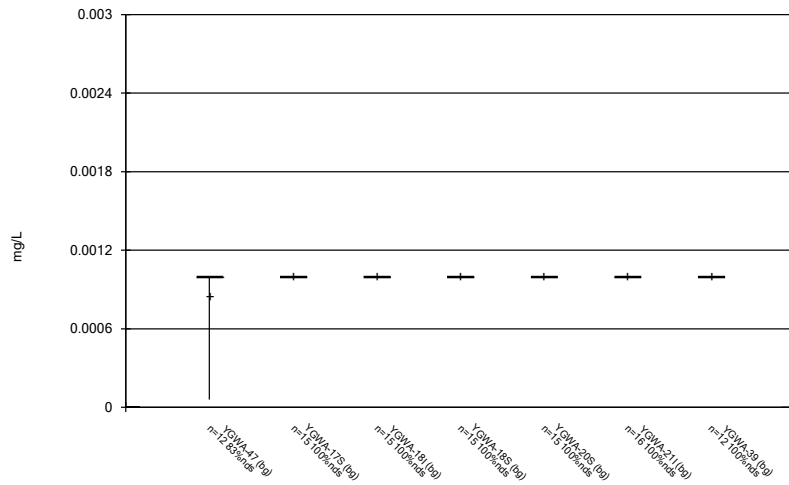
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Box & Whiskers Plot



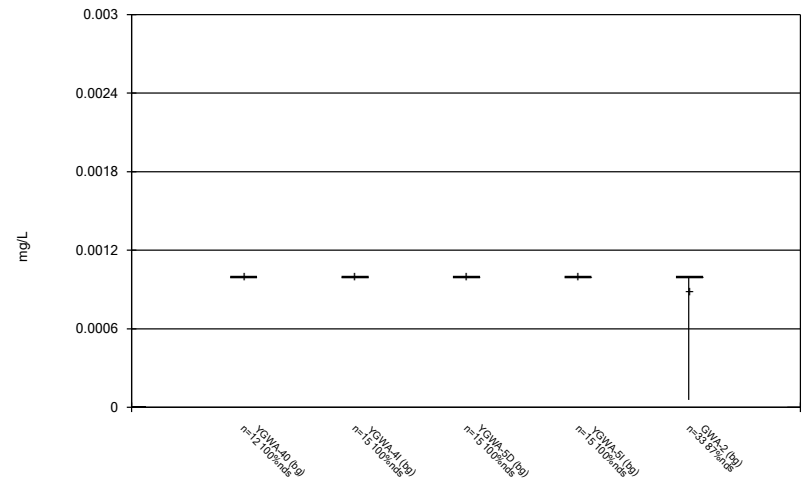
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Box & Whiskers Plot



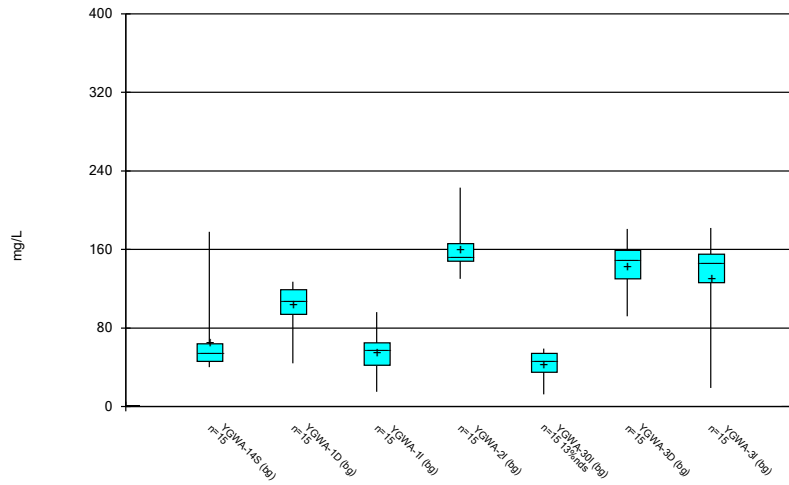
Constituent: Thallium Analysis Run 1/27/2021 10:04 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



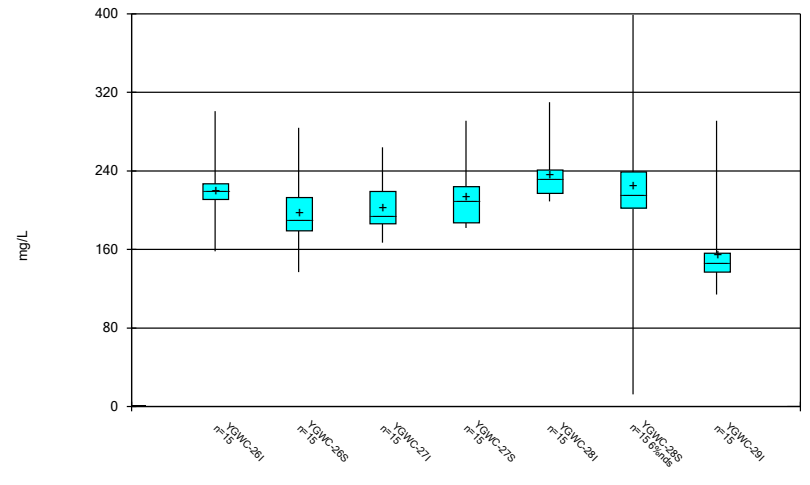
Constituent: Thallium Analysis Run 1/27/2021 10:04 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



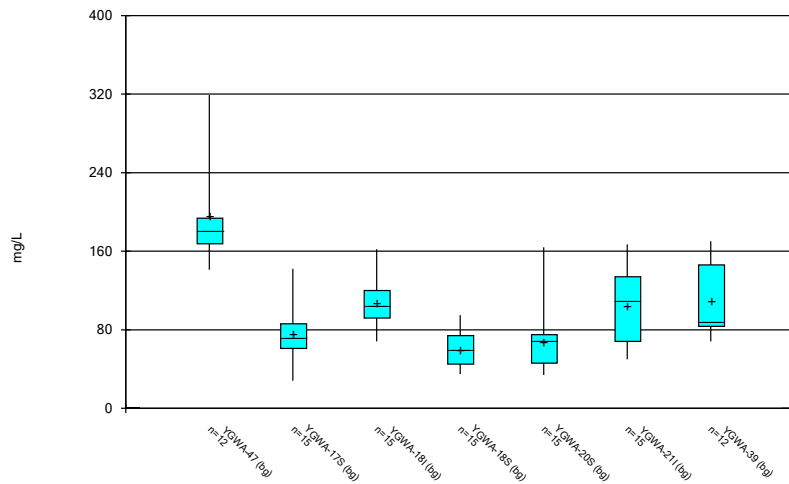
Constituent: Total Dissolved Solids Analysis Run 1/27/2021 10:04 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



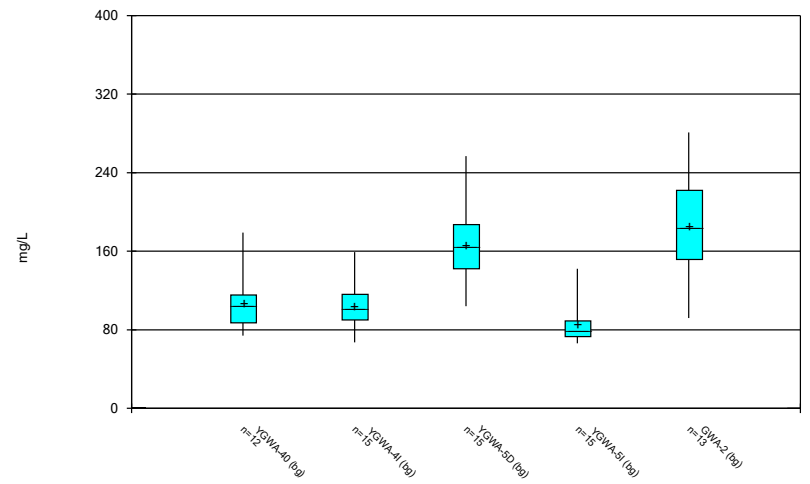
Constituent: Total Dissolved Solids Analysis Run 1/27/2021 10:04 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/27/2021 10:04 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Box & Whiskers Plot



Constituent: Total Dissolved Solids Analysis Run 1/27/2021 10:04 AM
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE C.

Outlier Summary

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 1/25/2021, 11:55 AM

	GWA-2 Cobalt (mg/L)	YGWC-261 Combined Radium 226 + 228 (pCi/L)	YGWA-47 pH (S.U.)
6/8/2016		6.68 (o)	
4/2/2018			6.3 (o)
8/26/2020	0.2 (O)		
9/22/2020	0.16 (O)		

FIGURE D.

Appendix III - Interwell Prediction Limits - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:28 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	9/24/2020	0.76	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	9/24/2020	0.74	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/24/2020	2.3	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/24/2020	1.3	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/24/2020	2.1	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/24/2020	2.6	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/24/2020	0.84	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	9/24/2020	38.6	Yes	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	7.9	n/a	9/24/2020	17.1	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	7.9	n/a	9/24/2020	15.7	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	7.9	n/a	9/24/2020	13.3	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	7.9	n/a	9/24/2020	17	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	7.9	n/a	9/24/2020	15.1	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	7.9	n/a	9/24/2020	18	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	7.9	n/a	9/24/2020	10.9	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	218.6	n/a	9/24/2020	226	Yes	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2

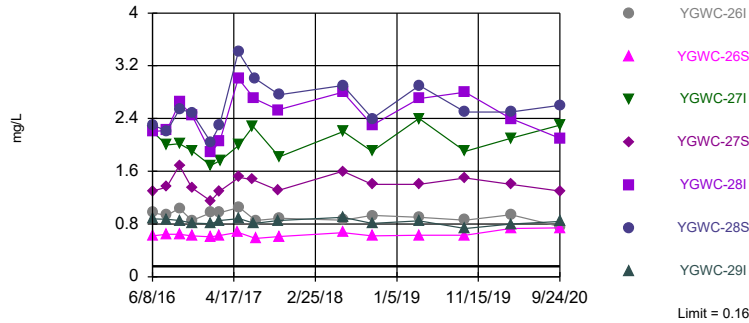
Appendix III - Interwell Prediction Limits - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:28 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	9/24/2020	0.76	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-26S	0.16	n/a	9/24/2020	0.74	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27I	0.16	n/a	9/24/2020	2.3	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-27S	0.16	n/a	9/24/2020	1.3	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28I	0.16	n/a	9/24/2020	2.1	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-28S	0.16	n/a	9/24/2020	2.6	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Boron (mg/L)	YGWC-29I	0.16	n/a	9/24/2020	0.84	Yes	274	n/a	n/a	45.62	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26I	37	n/a	9/24/2020	16.9	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	37	n/a	9/24/2020	11.3	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	37	n/a	9/24/2020	27.9	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	37	n/a	9/24/2020	38.6	Yes	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	37	n/a	9/24/2020	34.3	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	37	n/a	9/24/2020	30.8	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	37	n/a	9/24/2020	12.4	No	274	n/a	n/a	1.095	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	7.9	n/a	9/24/2020	17.1	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	7.9	n/a	9/24/2020	15.7	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	7.9	n/a	9/24/2020	13.3	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	7.9	n/a	9/24/2020	17	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	7.9	n/a	9/24/2020	15.1	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	7.9	n/a	9/24/2020	18	Yes	274	n/a	n/a	0	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	7.9	n/a	9/24/2020	10.9	Yes	274	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	9/24/2020	0.053J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	9/24/2020	0.1ND	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	9/24/2020	0.059J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	9/24/2020	0.092J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	9/24/2020	0.073J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	9/24/2020	0.16	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	9/24/2020	0.06J	No	327	n/a	n/a	68.5	n/a	n/a	0.00004918	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	7.91	4.86	9/24/2020	5.86	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	7.91	4.86	9/24/2020	5.46	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	7.91	4.86	9/24/2020	6.36	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	7.91	4.86	9/24/2020	6.27	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	7.91	4.86	9/24/2020	6.41	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	7.91	4.86	9/24/2020	6.53	No	339	n/a	n/a	0	n/a	n/a	0.00009836	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	7.91	4.86	9/24/2020	6.2	No	339	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	9/24/2020	85.6	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26S	160	n/a	9/24/2020	92.3	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27I	160	n/a	9/24/2020	3	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-27S	160	n/a	9/24/2020	16.6	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28I	160	n/a	9/24/2020	7.2	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-28S	160	n/a	9/24/2020	0.99J	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-29I	160	n/a	9/24/2020	26.2	No	274	n/a	n/a	5.839	n/a	n/a	0.00004918	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	218.6	n/a	9/24/2020	212	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	218.6	n/a	9/24/2020	171	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	218.6	n/a	9/24/2020	186	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	218.6	n/a	9/24/2020	185	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	218.6	n/a	9/24/2020	209	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	218.6	n/a	9/24/2020	226	Yes	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	218.6	n/a	9/24/2020	133	No	274	10.05	2.547	0.7299	None	sqrt(x)	0.001075	Param Inter 1 of 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Prediction Limit
Interwell Non-parametric

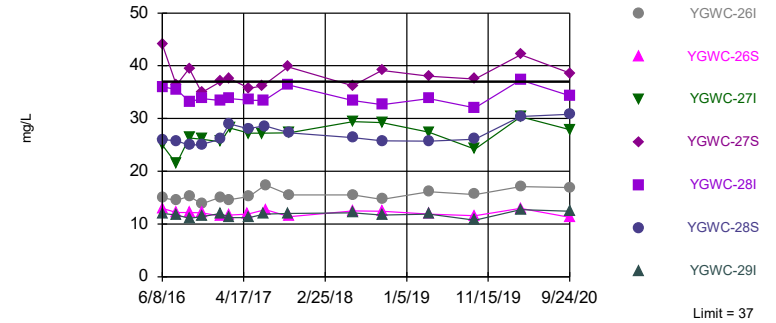


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 274 background values. 45.62% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 11/30/2020 3:22 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-27S

Prediction Limit
Interwell Non-parametric

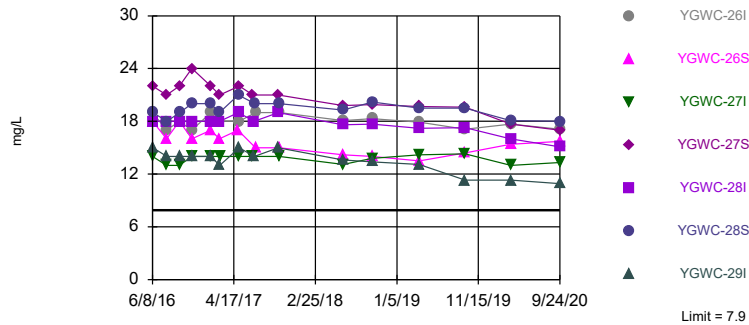


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 274 background values. 1.095% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 11/30/2020 3:22 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC-28S, YGWC-29I

Prediction Limit
Interwell Non-parametric

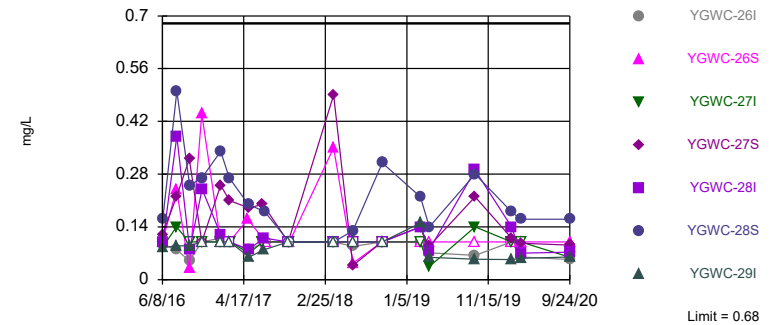


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 274 background values. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 11/30/2020 3:22 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit
Interwell Non-parametric

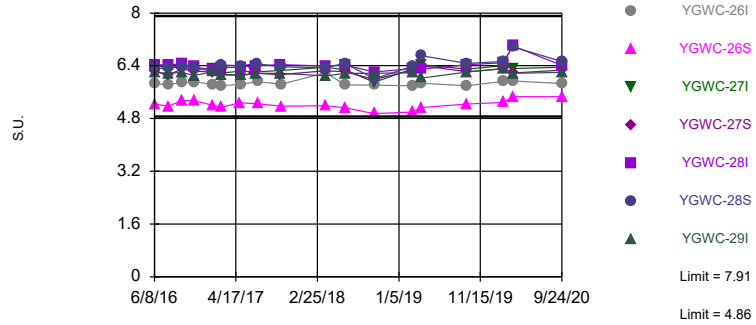


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 327 background values. 68.5% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 11/30/2020 3:22 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limits

Prediction Limit
Interwell Non-parametric

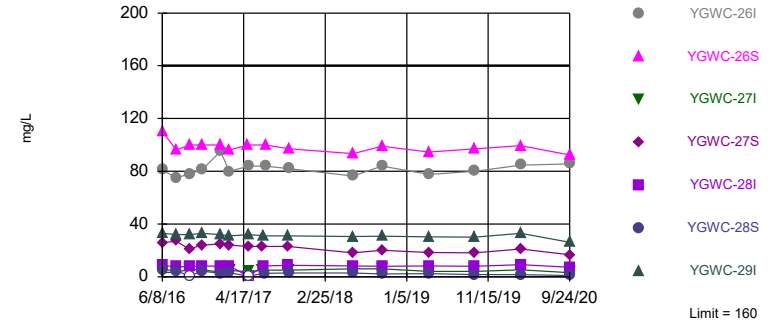


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 339 background values. Annual per-constituent alpha = 0.001377. Individual comparison alpha = 0.00009836 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 11/30/2020 3:23 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit
Interwell Non-parametric

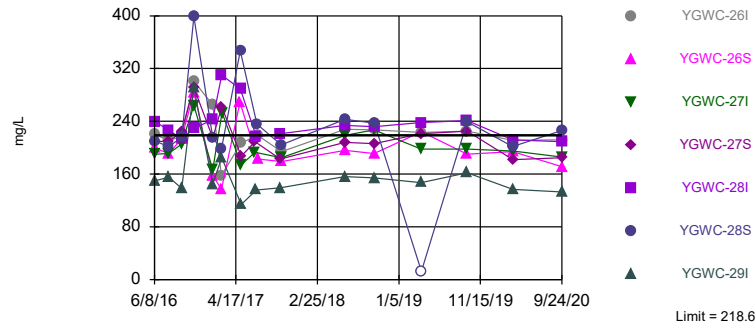


Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 274 background values. 5.839% NDs. Annual per-constituent alpha = 0.0006883. Individual comparison alpha = 0.00004918 (1 of 2). Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 11/30/2020 3:23 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-28S

Prediction Limit
Interwell Parametric



Background Data Summary (based on square root transformation): Mean=10.05, Std. Dev.=2.547, n=274, 0.7299% NDs. Normality test: Chi Squared @alpha = 0.01, calculated = 12.86, critical = 14.07. Kappa = 1.859 (c=7, w=7, 1 of 2, event alpha = 0.05132). N exceeds UG tables; Kappa based on n=150. Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:23 PM View: Appendix III
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		0.006 (J)	0.0087 (J)			0.0079 (J)			<0.1
6/28/2017	<0.1						<0.1		
6/29/2017					<0.1				
6/30/2017				0.0173 (J)				<0.1	
7/5/2017									
7/7/2017									
7/10/2017									
7/11/2017									
7/17/2017									
10/3/2017		0.0071 (J)	0.0072 (J)			0.0094 (J)			<0.1
10/4/2017	<0.1						<0.1	<0.1	
10/5/2017				0.0173 (J)	<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									
4/2/2018									
4/3/2018									
6/5/2018			0.0052 (J)						
6/6/2018		<0.1				0.0098 (J)			
6/7/2018					0.0045 (J)		0.004 (J)		<0.1
6/8/2018	<0.1			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)	0.01 (J)			0.0057 (J)
10/1/2018	<0.1	0.0049 (J)	0.021 (J)	0.015 (J)			<0.1		
10/2/2018								<0.1	
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019		<0.1	0.005 (J)						
3/29/2019				0.014 (J)					
4/1/2019	<0.1						<0.1	<0.1	

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)
4/2/2019									
4/3/2019					0.0055 (J)	0.0076 (J)			0.0044 (J)
6/12/2019									
9/24/2019		0.0055 (J)	0.0064 (J)			0.01 (J)			0.0049 (J)
9/25/2019	<0.1			0.018 (J)	<0.1		0.0054 (J)	<0.1	
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)				0.0073 (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					<0.1	0.0079 (J)			0.0053 (J)
9/23/2020	0.0073 (J)	<0.1	<0.1				0.012 (J)		
9/24/2020								0.0075 (J)	
9/25/2020				0.02 (J)					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/30/2020 3:28 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-26I	YGWC-26S	YGWC-27S	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						0.97	0.62	1.3	2.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	0.0059 (J)	<0.1	0.008 (J)		<0.1				
7/28/2016				<0.1					
8/1/2016						0.932	0.643	1.36	2
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		<0.1		<0.1	<0.1				
9/20/2016						1.04	0.644	1.69	2.02
9/21/2016									
11/1/2016									
11/2/2016					<0.1				
11/3/2016	0.0082 (J)	<0.1	0.0077 (J)	<0.1					
11/4/2016									
11/7/2016						0.852	0.621	1.35	1.91
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	0.0096 (J)	<0.1	0.0092 (J)						
1/12/2017									
1/13/2017				<0.1	<0.1				
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	<0.1	<0.1							
3/2/2017			0.0095 (J)						
3/3/2017									
3/6/2017				<0.1	<0.1				
3/7/2017									
3/8/2017									
4/26/2017	0.0091 (J)	<0.1		<0.1	<0.1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			<0.1						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/30/2020 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
5/3/2017							0.676		
5/5/2017									
5/8/2017						1.05		1.51	2
5/26/2017									
6/27/2017									
6/28/2017	0.0079 (J)	<0.1							
6/29/2017			0.0074 (J)	<0.1	<0.1				
6/30/2017								1.47	2.28
7/5/2017									
7/7/2017									
7/10/2017						0.855	0.58		
7/11/2017									
7/17/2017									
10/3/2017				<0.1					
10/4/2017	0.009 (J)		0.0077 (J)		<0.1				
10/5/2017		<0.1							
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		<0.1							
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)	0.0096 (J)	0.0054 (J)	<0.1				
9/26/2018									
10/1/2018									
10/2/2018						0.93	0.62	1.4	1.9
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								1.4	2.4

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/30/2020 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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						<0.1		
6/27/2017								
6/28/2017						<0.1		
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						<0.1		
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					<0.1			
11/20/2017							0.0251 (J)	0.156
1/10/2018								0.15
1/11/2018							0.0255 (J)	
2/19/2018					<0.1			0.146
2/20/2018							<0.1	
4/2/2018				0.013 (J)				
4/3/2018							0.033 (J)	0.12
6/5/2018								
6/6/2018								
6/7/2018						<0.1		
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					<0.1			
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						<0.1		
10/2/2018			0.81					
10/3/2018	2.4	2.3						
2/25/2019					<0.1			
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					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		2.36	13.8			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		2.21	14			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					8.2		29.1		2.3
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)	25.8			2.3
10/1/2018	19.7	1.8	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)						30.1	1.3	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)
4/2/2019									
4/3/2019					8.4	24.7 (J)			2.8
6/12/2019									
9/24/2019		2.3	15.8			25.8			2.5
9/25/2019	22.4			1.1	9.5		29.5	1.1	
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				31.5	1.2	
3/20/2020									
3/24/2020						26.1			2.5
3/25/2020					10.5				
9/22/2020					9.6	27.2			2.6
9/23/2020	23.6	1.8	14.1				28.6		
9/24/2020								1.1	
9/25/2020				1.3					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/30/2020 3:28 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-26I	YGWC-26S	YGWC-27S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	1.4	6.2							
6/7/2016			2.2	3.7	2.3				
6/8/2016						15	13	44	25
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.19	4.73	2		2.08				
7/28/2016				3.15					
8/1/2016						14.5	12.2	36.3	21.4
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						15.3	12.2	39.5	26.3
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	34.9	26.1
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.25	4.74	2.28						
1/12/2017									
1/13/2017				4.98	2.45				
1/16/2017									
1/18/2017						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				6.28	2.48				
3/7/2017									
3/8/2017									
4/26/2017	1.05	4.28		6.65	2.3				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			1.95						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/30/2020 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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)					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)
5/3/2017									
5/5/2017									
5/8/2017									
5/26/2017									
6/27/2017		1.4	1.1			7			4.3
6/28/2017	1.2						1.3		
6/29/2017					4.2				
6/30/2017				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			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					4.4		1.2		4.5
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	4.8			5.1
10/1/2018	1.2	1.4	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						1.2	1.7	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-30I (bg)	YGWA-5I (bg)
4/2/2019									
4/3/2019					4.3	4			4.2
6/12/2019									
9/24/2019		1.3	1.1			3.7			4.5
9/25/2019	1.1			4.8	4.5		1.1	1.6	
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					4.5	3.6			4.2
9/23/2020	1	1.2	0.99 (J)				1.1		
9/24/2020								1.5	
9/25/2020				5.3					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/30/2020 3:28 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-26I	YGWC-26S	YGWC-27S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	6.4	6.8							
6/7/2016			4.5	2.8	1.9				
6/8/2016						19	18	22	14
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	6.2	6.7	4.5		1.9				
7/28/2016				2.6					
8/1/2016						17	16	21	13
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	18	22	13
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	24	14
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	6.1	6.5	4.7						
1/12/2017									
1/13/2017				2.5	2.3				
1/16/2017									
1/18/2017						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				2.1	1.9				
3/7/2017									
3/8/2017									
4/26/2017	6.5	7		2.1	2				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			4.6						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/30/2020 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
5/3/2017							17		
5/5/2017									
5/8/2017						18		22	14
5/26/2017									
6/27/2017									
6/28/2017	6.4	7							
6/29/2017			4.5	2.8	2.6				
6/30/2017								21	14
7/5/2017									
7/7/2017									
7/10/2017						19	15		
7/11/2017									
7/17/2017									
10/3/2017				2.2					
10/4/2017	6.8		4.7		2.6				
10/5/2017		7							
10/6/2017								21	
10/9/2017									14
10/10/2017						19	15		
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				1.7					
6/6/2018					2.7				
6/7/2018		6.8							
6/8/2018									
6/11/2018	6.8		4.9						
6/12/2018								19.8	
6/13/2018						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	5.6	2.2	3.6				
9/26/2018									
10/1/2018									
10/2/2018						18.3	14	19.9	13.8
10/3/2018									
2/25/2019									
3/26/2019									
3/27/2019									
3/28/2019									
3/29/2019									
4/1/2019								19.7	14.2

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/30/2020 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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: Fluoride (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (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		

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-5D (bg)	YGWA-30I (bg)	YGWA-5I (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	0.4	<0.1	<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					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/30/2020 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18I (bg)	YGWA-18S (bg)	YGWA-20S (bg)	YGWA-211 (bg)	YGWA-17S (bg)	YGWC-27I	YGWC-26S	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						0.086 (J)	<0.1	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						0.14 (J)	0.24 (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		<0.1	0.02 (J)					
9/20/2016						<0.1	0.03 (J)	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						<0.1 (*)	0.44	<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	<0.1	0.04 (J)					
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017					<0.1				

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/30/2020 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27I	YGWC-26S
8/27/2008									
3/3/2009									
11/18/2009									
3/3/2010									
3/10/2011									
9/8/2011									
3/5/2012									
9/10/2012									
2/6/2013									
8/12/2013									
2/5/2014									
8/3/2015									
2/16/2016									
6/1/2016									
6/2/2016	7.67								
6/6/2016		5.71	6.17						
6/7/2016				5.62	6.1	5.77			
6/8/2016							5.85	6.32	5.24
6/9/2016									
7/25/2016									
7/26/2016	7.66								
7/27/2016		5.46	6.14	5.59		5.79			
7/28/2016					6.12				
8/1/2016							5.83	6.34	5.17
8/2/2016									
8/30/2016									
9/13/2016									
9/14/2016	7.6								
9/15/2016									
9/16/2016				5.58					
9/19/2016		5.59	6.04		6.12	5.73			
9/20/2016							5.89	6.36	5.35
9/21/2016									
11/1/2016									
11/2/2016	7.35					5.67			
11/3/2016		5.39	5.97	5.59	6.07				
11/4/2016									
11/7/2016							5.91	6.3	5.35
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017		5.48	6.05	5.59					
1/12/2017	7.49								
1/13/2017					6.41	5.79			
1/16/2017									
1/18/2017							5.84	6.31	5.2
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 11/30/2020 3:28 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-5D (bg)	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-21I (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-27I	YGWC-26S
2/24/2017									
3/1/2017		5.41	5.94						
3/2/2017				5.54					
3/3/2017									
3/6/2017					6.34	5.63			
3/7/2017	7.43								
3/8/2017									
4/26/2017		5.4	5.99		6.32	5.66			
4/27/2017									
4/28/2017									
5/1/2017	7.22								
5/2/2017				5.47					
5/3/2017									5.28
5/5/2017									
5/8/2017							5.84	6.24	
5/26/2017									
6/27/2017	7.32								
6/28/2017		5.36	6						
6/29/2017				5.56	6.47	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	7.48				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	7.02				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	7.43					5.86			
6/7/2018			5.98						
6/8/2018									
6/11/2018		5.28		5.58					
6/12/2018									
6/13/2018							5.82	6.28	5.12

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-30I (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				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			16			2.3
10/4/2017	12						6.2	1.4	
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		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	9.1	4	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						7.2	0.96 (J)	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/30/2020 3:28 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-3D (bg)	YGWA-30I (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			6.6	8.5		7	0.81 (J)	
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				9	1.6	
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	16.8	3.4	8.1				6.9		
9/24/2020								0.69 (J)	
9/25/2020				6.1					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/30/2020 3:29 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-26I	YGWC-26S	YGWC-27S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	1.8	1.2							
6/7/2016			4.4	5.2	<1				
6/8/2016						81	110	26	3.2
6/9/2016									
7/25/2016									
7/26/2016									
7/27/2016	1.9	1.7	4.7		0.08 (J)				
7/28/2016				5.1					
8/1/2016						75	96	27	3.6
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						78	100	21	5.6
9/21/2016									
11/1/2016									
11/2/2016					0.1 (J)				
11/3/2016	1.9	0.69 (J)	5.3	5					
11/4/2016									
11/7/2016						81	100	24	5.4
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	1.7	<1	5.2						
1/12/2017									
1/13/2017				4.3	<1				
1/16/2017									
1/18/2017						95	100		3.5
1/19/2017								25	
2/21/2017						80	96		
2/22/2017								24	
2/23/2017									4.9
2/24/2017									
3/1/2017	<1	1.8							
3/2/2017			5						
3/3/2017									
3/6/2017				4.5	<1				
3/7/2017									
3/8/2017									
4/26/2017	1.9	1.6		4.9	<1				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			5						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/30/2020 3:29 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWA-18S (bg)	YGWA-18I (bg)	YGWA-17S (bg)	YGWA-211 (bg)	YGWA-20S (bg)	YGWC-26I	YGWC-26S	YGWC-27S	YGWC-27I
5/3/2017							100		
5/5/2017									
5/8/2017						84		23	3.9
5/26/2017									
6/27/2017									
6/28/2017	<1	<1							
6/29/2017			5.2	5.5	<1				
6/30/2017								23	5
7/5/2017									
7/7/2017									
7/10/2017						84	100		
7/11/2017									
7/17/2017									
10/3/2017				5.8					
10/4/2017	1.7		5.3		<1				
10/5/2017		1.6							
10/6/2017								23	
10/9/2017									5.1
10/10/2017						82	97		
10/11/2017									
10/12/2017									
10/16/2017									
11/20/2017									
1/10/2018									
1/11/2018									
2/19/2018									
2/20/2018									
4/2/2018									
4/3/2018									
6/5/2018				6.1					
6/6/2018						0.049 (J)			
6/7/2018		0.68 (J)							
6/8/2018									
6/11/2018	0.95 (J)		5.2						
6/12/2018								18.1	
6/13/2018						76.5	93.3		6.1
6/28/2018									
8/6/2018									
8/7/2018									
9/19/2018									
9/24/2018									
9/25/2018	1.5	1	6.1	7	0.13 (J)				
9/26/2018									
10/1/2018									
10/2/2018						83.9	99	20.2	6.1
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

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/30/2020 3:29 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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	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		8.2	30.4					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/30/2020 3:29 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-3D (bg)	YGWA-30I (bg)	YGWA-5I (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		95		142
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 11/30/2020 3:29 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-3D (bg)	YGWA-30I (bg)	YGWA-5I (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					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/30/2020 3:29 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-26I	YGWC-26S	YGWC-27S	YGWC-27I
6/1/2016									
6/2/2016									
6/6/2016	58	120							
6/7/2016			28	60	38				
6/8/2016						220	200	210	190
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	209	191
8/2/2016									
8/30/2016									
8/31/2016									
9/13/2016									
9/14/2016									
9/15/2016									
9/16/2016	35		67						
9/19/2016		92		68	45				
9/20/2016						217	213	224	205
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	291	264
11/8/2016									
11/14/2016									
11/28/2016									
12/15/2016									
1/10/2017									
1/11/2017	95	133	104						
1/12/2017									
1/13/2017				76	46				
1/16/2017									
1/18/2017						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				167	164				
3/7/2017									
3/8/2017									
4/26/2017	36	162		50	34				
4/27/2017									
4/28/2017									
5/1/2017									
5/2/2017			142						

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/30/2020 3:29 PM View: Appendix III

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28I	YGWC-29I	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					

FIGURE E.

Appendix III Trend Tests - Prediction Limit Exceedances - Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:44 PM

Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Calcium (mg/L)	YGWA-1D (bg)	0.9112	54	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.267	-48	-38	Yes	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.09147	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-211 (bg)	1.723	59	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.326	50	43	Yes	13	7.692	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.872	-55	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.074	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-29I	-0.6911	-61	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.1906	61	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.225	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9674	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-44	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-16.16	-59	-53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:44 PM

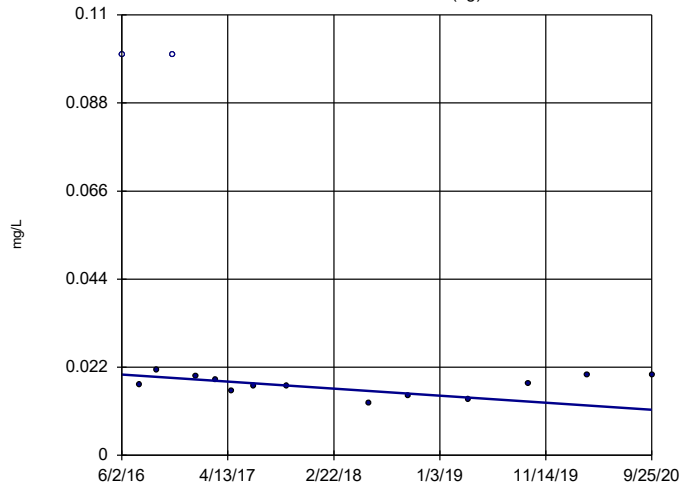
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Boron (mg/L)	YGWA-14S (bg)	-0.002039	-30	-53	No	15	13.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-1D (bg)	-0.0002466	-14	-53	No	15	20	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-11 (bg)	0	-28	-53	No	15	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21 (bg)	0	-22	-53	No	15	73.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-30I (bg)	0	-31	-53	No	15	80	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3D (bg)	0	-15	-53	No	15	53.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-3I (bg)	0	-25	-53	No	15	86.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26I	-0.02959	-29	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-26S	0.0102	31	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27I	0.05407	18	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-27S	0.011	9	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28I	0.05294	17	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-28S	0.07989	25	53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWC-29I	-0.009311	-37	-53	No	15	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-47 (bg)	-0.001562	-37	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-17S (bg)	-0.0004068	-21	-53	No	15	13.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18I (bg)	0	-38	-53	No	15	73.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-18S (bg)	-0.0005007	-21	-53	No	15	13.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-20S (bg)	0	-17	-53	No	15	86.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-21I (bg)	-0.006488	-47	-53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-39 (bg)	0.003122	11	38	No	12	8.333	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-40 (bg)	-0.02578	-31	-38	No	12	0	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-4I (bg)	0	-10	-53	No	15	66.67	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5D (bg)	0.0006117	23	53	No	15	13.33	n/a	n/a	0.01	NP
Boron (mg/L)	YGWA-5I (bg)	-0.001168	-43	-53	No	15	60	n/a	n/a	0.01	NP
Boron (mg/L)	GWA-2 (bg)	0	-1	-43	No	13	53.85	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-14S (bg)	-0.0442	-47	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-1D (bg)	0.9112	54	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-11 (bg)	-0.1082	-50	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21 (bg)	0.7549	37	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-30I (bg)	-0.01026	-12	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3D (bg)	0.9217	40	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-3I (bg)	0.6083	28	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWC-27S	0.4345	14	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-47 (bg)	-2.267	-48	-38	Yes	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-17S (bg)	0.1212	51	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18I (bg)	0.02072	8	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-18S (bg)	-0.09147	-54	-53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-20S (bg)	0.1176	52	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-21I (bg)	1.723	59	53	Yes	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-39 (bg)	0.05098	1	38	No	12	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-40 (bg)	-1.15	-37	-38	No	12	8.333	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-4I (bg)	0.4056	50	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5D (bg)	-2.054	-47	-53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	YGWA-5I (bg)	0.08295	38	53	No	15	0	n/a	n/a	0.01	NP
Calcium (mg/L)	GWA-2 (bg)	4.326	50	43	Yes	13	7.692	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-14S (bg)	0.1026	20	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-1D (bg)	0	-25	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-11 (bg)	0	-19	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-21 (bg)	-0.04955	-30	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-30I (bg)	0	-10	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3D (bg)	-0.06957	-46	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-3I (bg)	-0.05476	-51	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26I	-0.08575	-18	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-26S	-0.872	-55	-53	Yes	15	0	n/a	n/a	0.01	NP

Appendix III Trend Tests - Prediction Limit Exceedances - All Results Page 2

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/30/2020, 3:44 PM

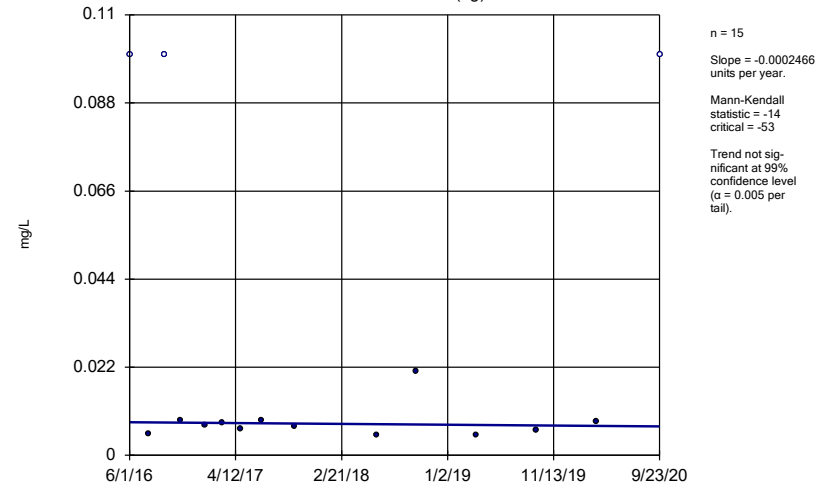
Constituent	Well	Slope	Calc.	Critical	Sig.	N	%NDs	Normality	Xform	Alpha	Method
Chloride (mg/L)	YGWC-271	0	7	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-27S	-1.074	-77	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-281	-0.2513	-53	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-28S	0	-2	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWC-291	-0.6911	-61	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-47 (bg)	-0.504	-33	-38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-17S (bg)	0.1906	61	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-181 (bg)	0.06048	32	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-18S (bg)	0.2113	40	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-20S (bg)	0.225	65	53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-211 (bg)	-0.06716	-15	-53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-39 (bg)	0.02132	1	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-40 (bg)	0.2281	23	38	No	12	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-41 (bg)	0.1431	41	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-5D (bg)	-0.9674	-68	-53	Yes	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	YGWA-51 (bg)	0	1	53	No	15	0	n/a	n/a	0.01	NP
Chloride (mg/L)	GWA-2 (bg)	0.1924	33	43	No	13	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-14S (bg)	0.8555	9	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-1D (bg)	3.318	18	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-11 (bg)	-3.416	-17	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-21 (bg)	-2.032	-19	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-301 (bg)	3.476	28	53	No	15	13.33	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-3D (bg)	4.214	19	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-31 (bg)	2.713	14	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWC-28S	0	0	53	No	15	6.667	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-47 (bg)	-14.88	-44	-38	Yes	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-17S (bg)	6.577	31	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-181 (bg)	-1.862	-14	-53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-18S (bg)	7.897	34	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-20S (bg)	5.975	37	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-211 (bg)	22.56	45	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-39 (bg)	12.16	18	38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-40 (bg)	-16.26	-36	-38	No	12	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-41 (bg)	4.95	19	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-5D (bg)	-16.16	-59	-53	Yes	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	YGWA-51 (bg)	0.4969	6	53	No	15	0	n/a	n/a	0.01	NP
Total Dissolved Solids (mg/L)	GWA-2 (bg)	21.56	27	43	No	13	0	n/a	n/a	0.01	NP

Sen's Slope Estimator YGWA-14S (bg)



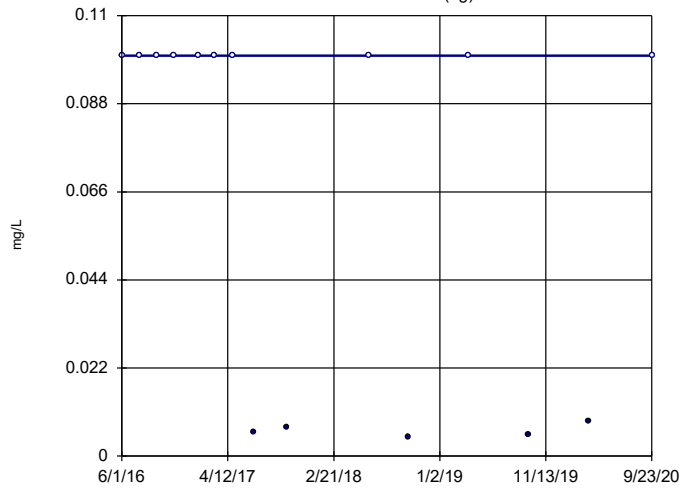
Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



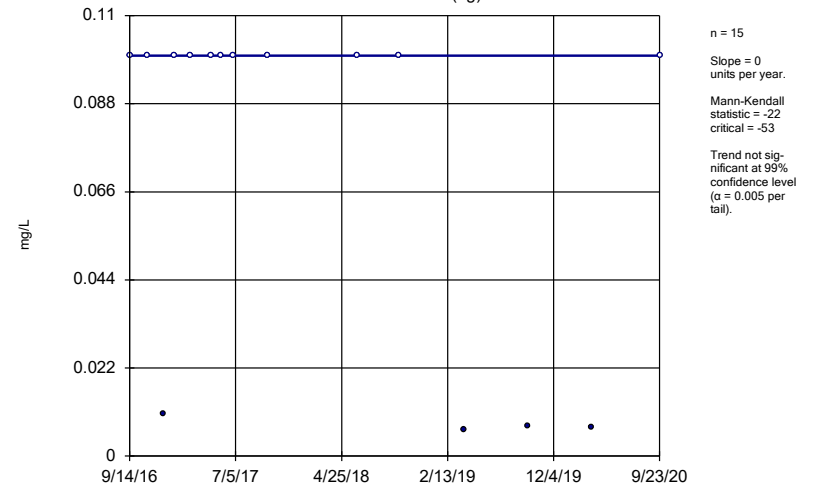
Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

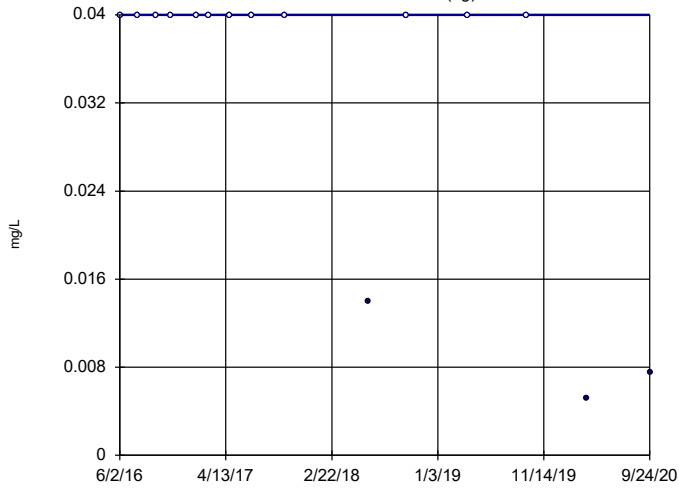
Sen's Slope Estimator YGWA-2I (bg)



Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

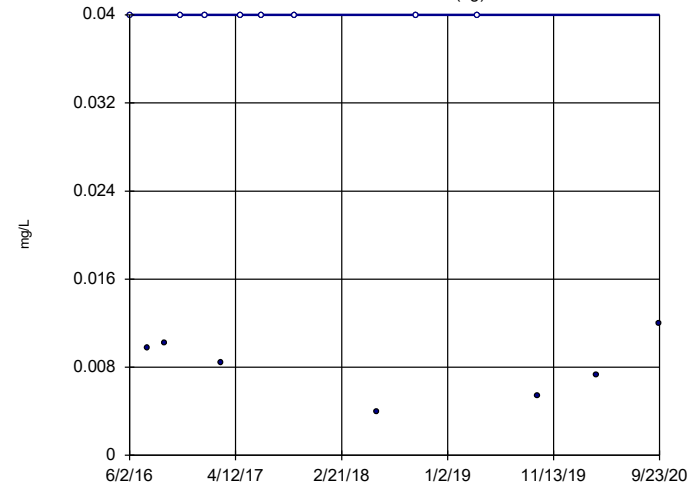


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = -31
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

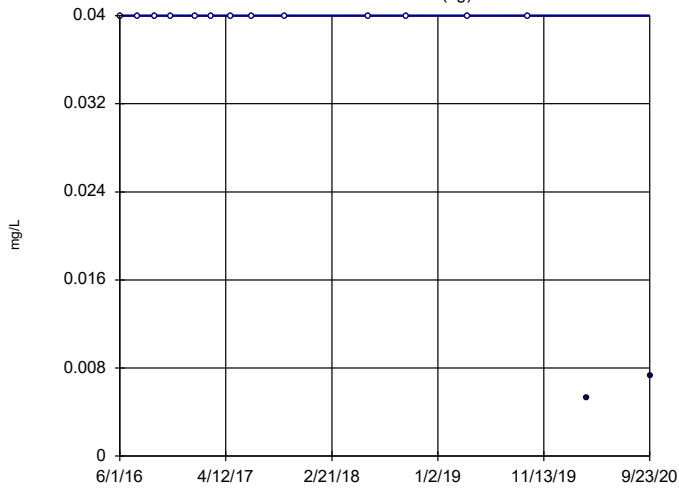


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = -15
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

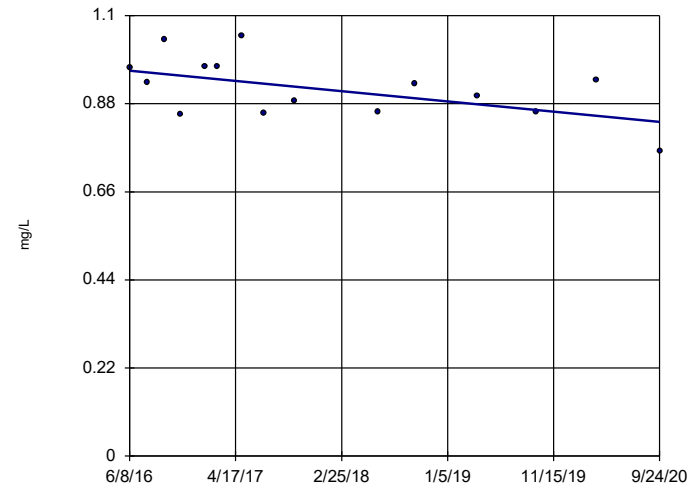


n = 15
Slope = 0
units per year.
Mann-Kendall
statistic = -25
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

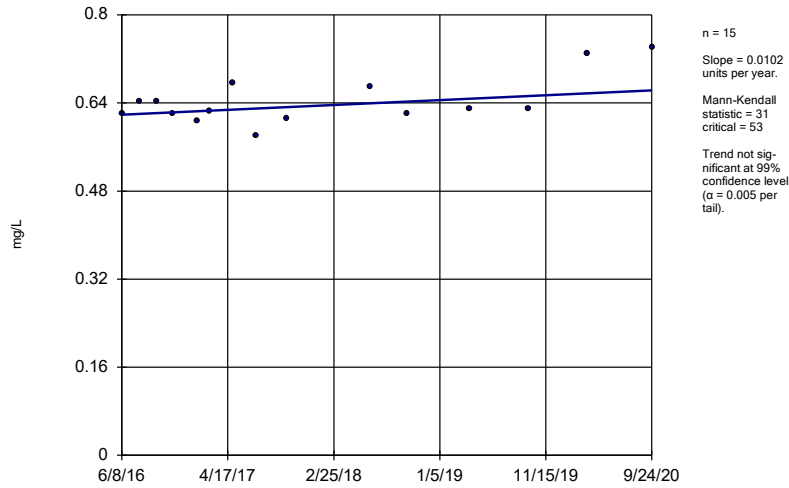
YGWC-26I



n = 15
Slope = -0.02959
units per year.
Mann-Kendall
statistic = -29
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

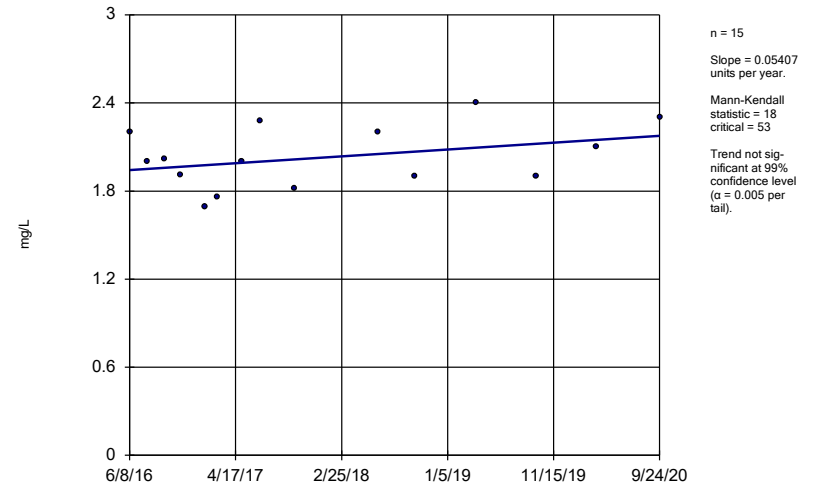
Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-26S



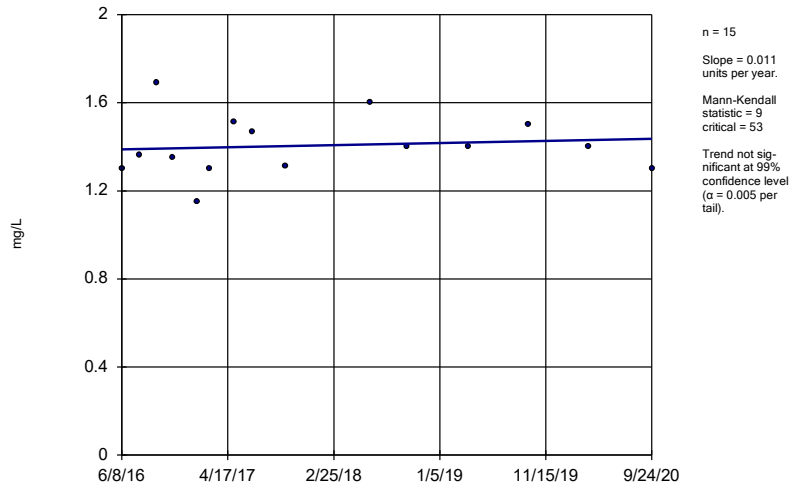
Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27I



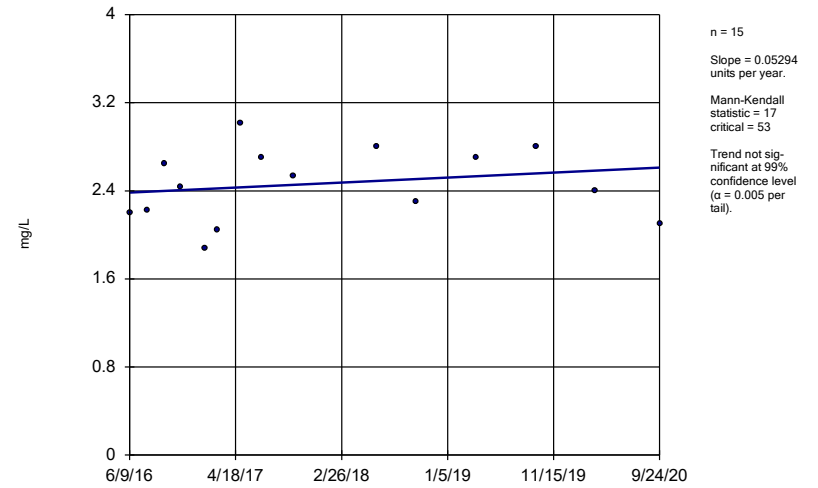
Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-27S



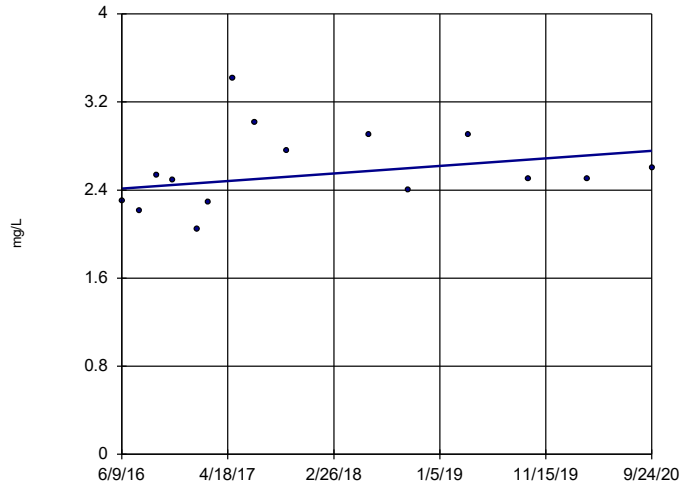
Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWC-28I



Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

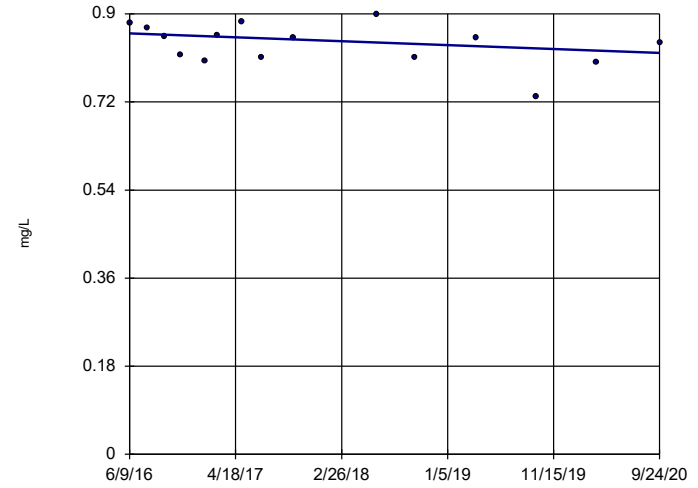
Sen's Slope Estimator
YGWC-28S



n = 15
Slope = 0.07989
units per year.
Mann-Kendall
statistic = 25
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

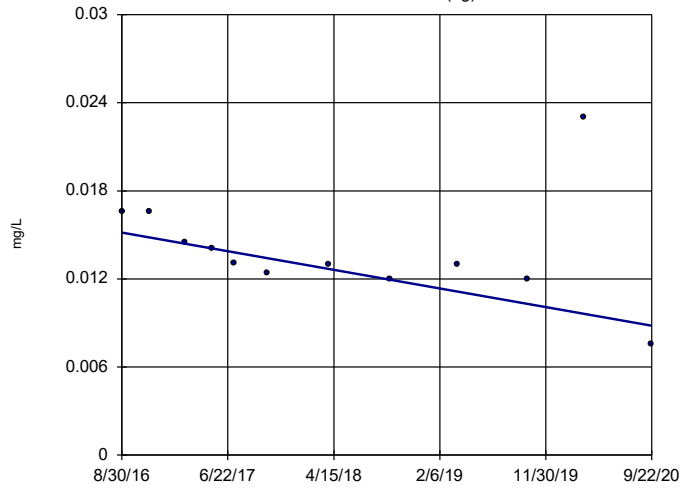
Sen's Slope Estimator
YGWC-29I



n = 15
Slope = -0.009311
units per year.
Mann-Kendall
statistic = -37
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

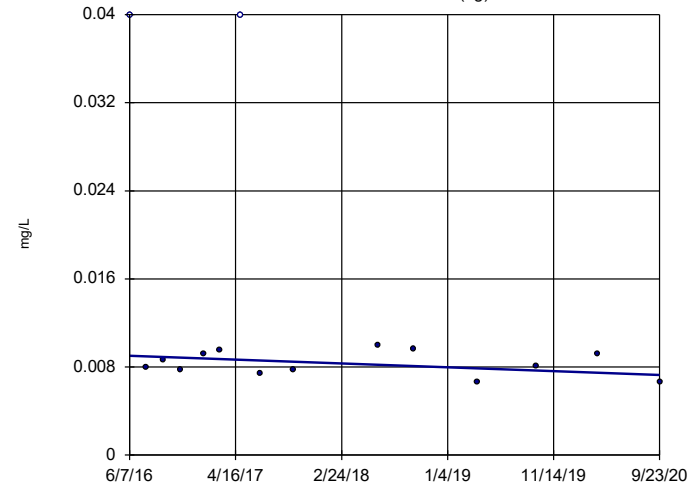
Sen's Slope Estimator
YGWA-47 (bg)



n = 12
Slope = -0.001562
units per year.
Mann-Kendall
statistic = -37
critical = -38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-17S (bg)

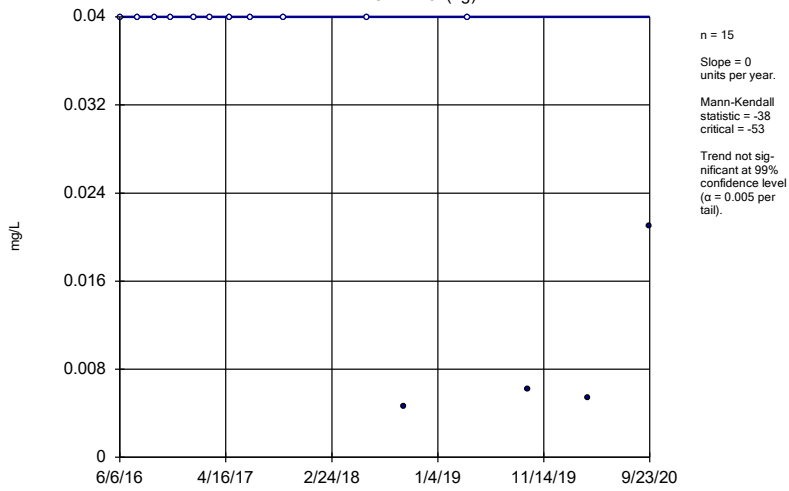


n = 15
Slope = -0.0004068
units per year.
Mann-Kendall
statistic = -21
critical = -53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

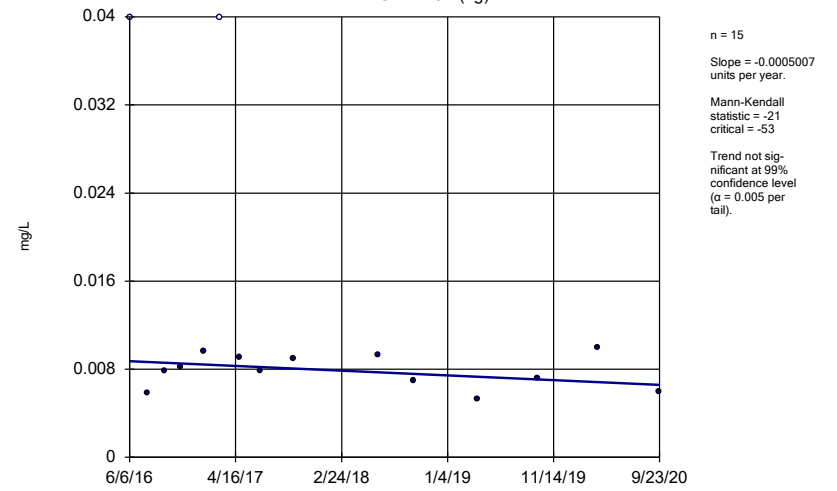
YGWA-18I (bg)



Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

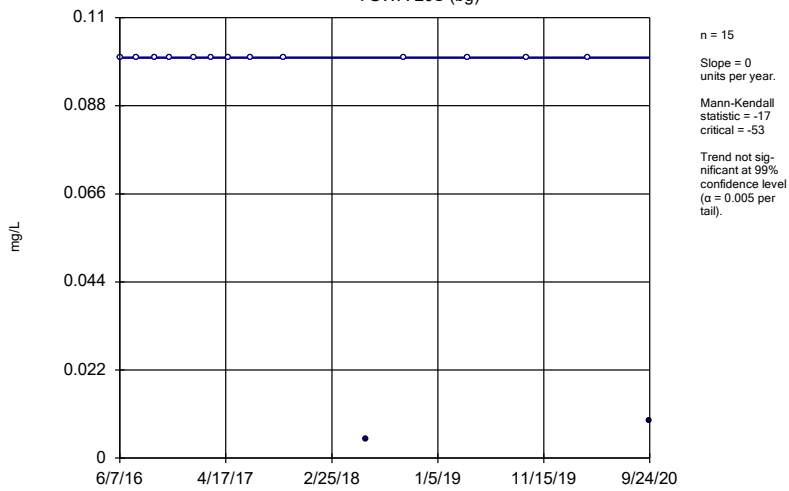
YGWA-18S (bg)



Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

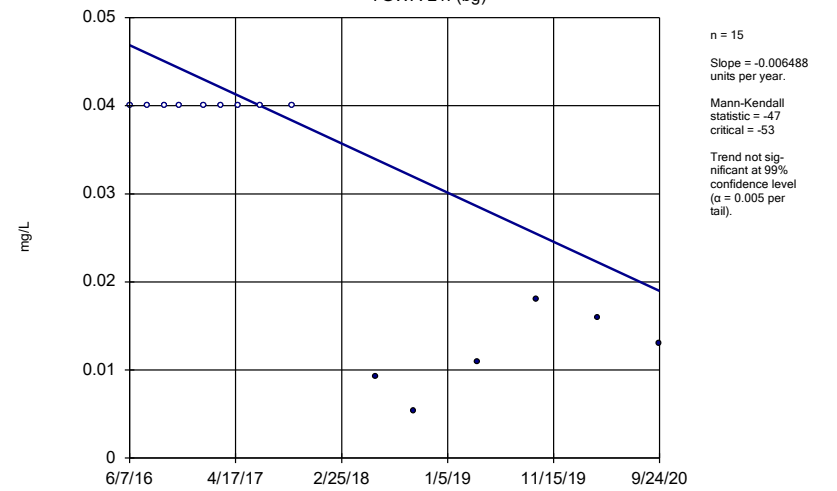
YGWA-20S (bg)



Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

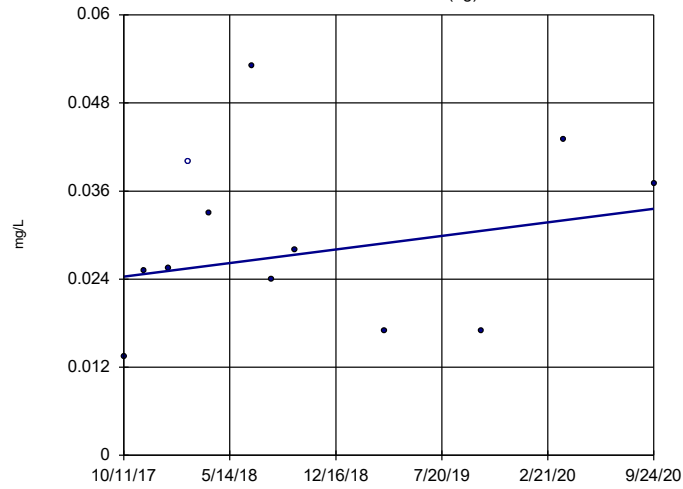
Sen's Slope Estimator

YGWA-21I (bg)



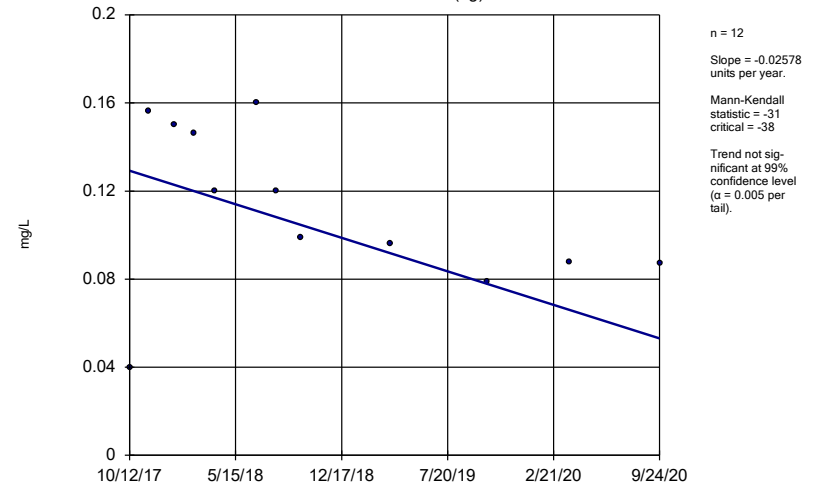
Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-39 (bg)



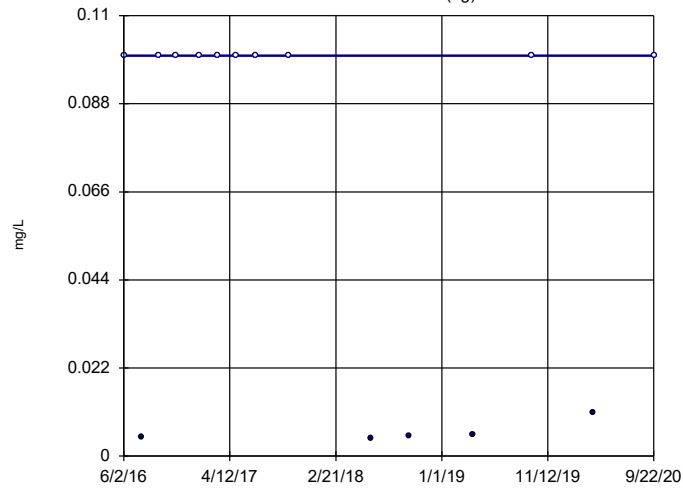
Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-40 (bg)



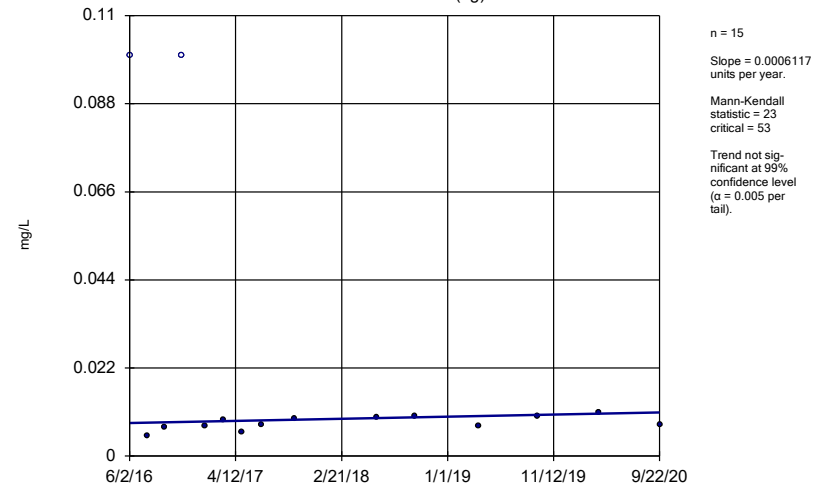
Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-41 (bg)



Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

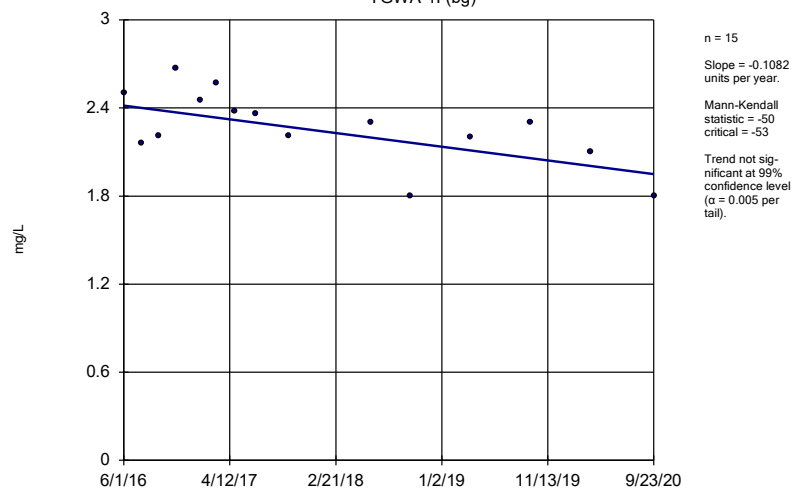
Sen's Slope Estimator
YGWA-5D (bg)



Constituent: Boron Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

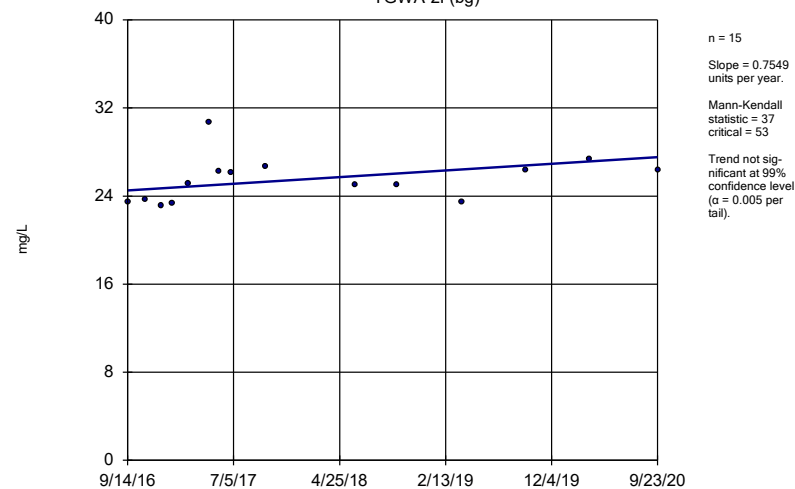
YGWA-11 (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

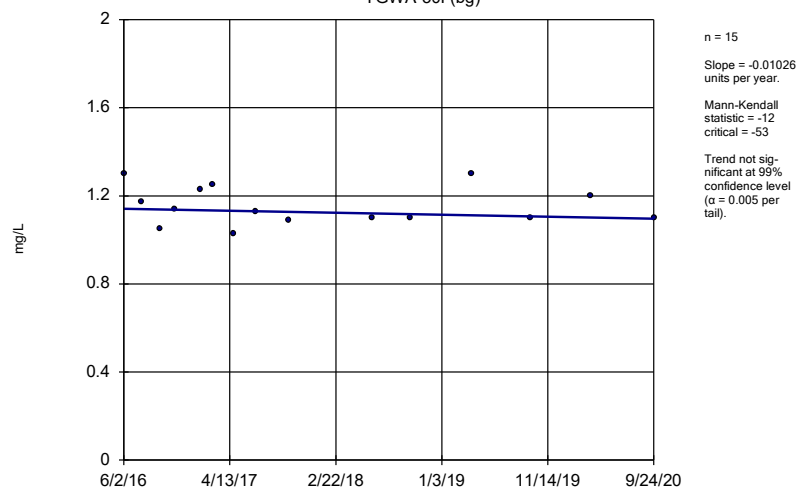
YGWA-21 (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

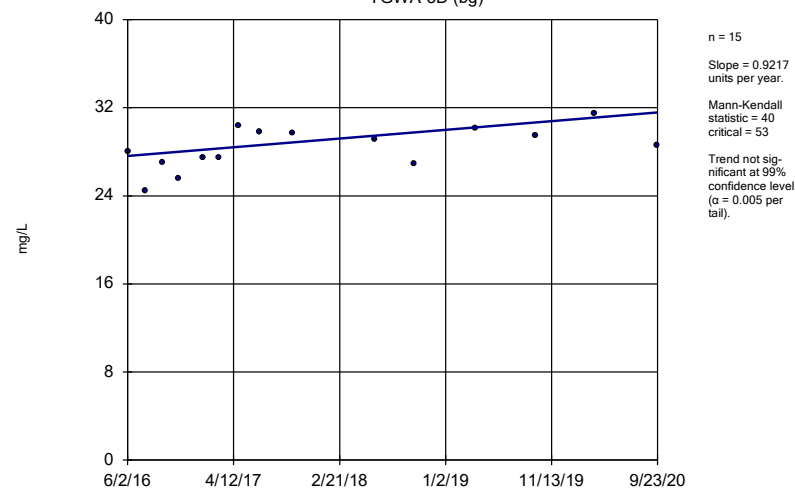
YGWA-30I (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

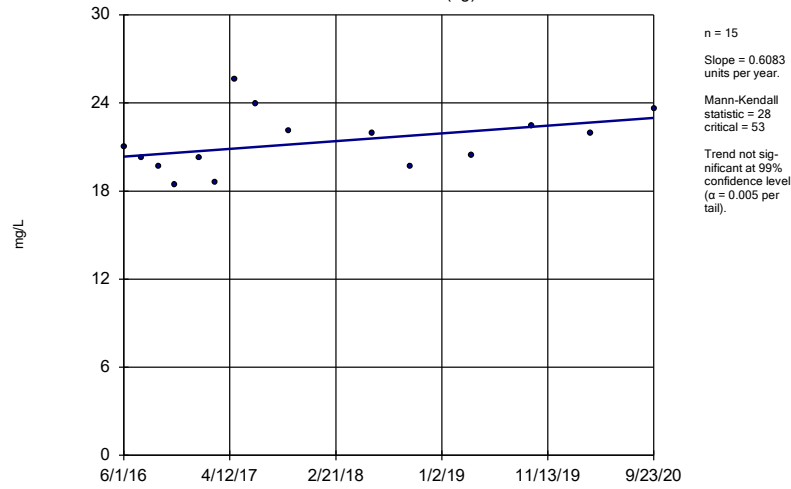
YGWA-3D (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

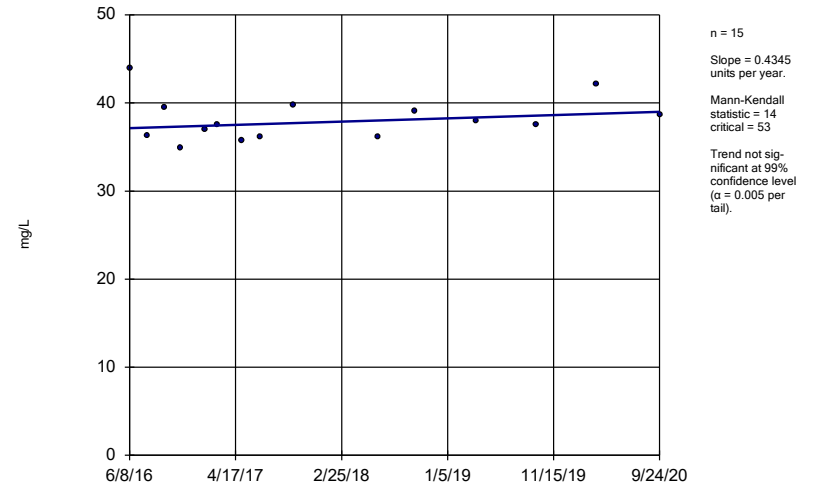
YGWA-3I (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

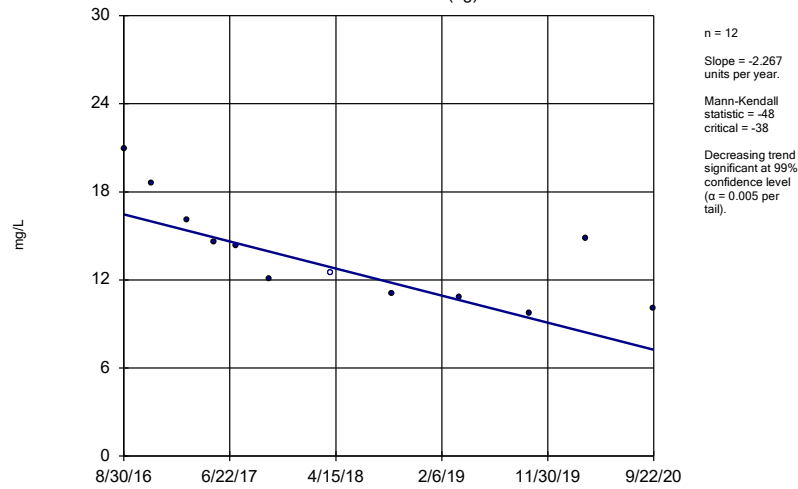
YGWC-27S



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

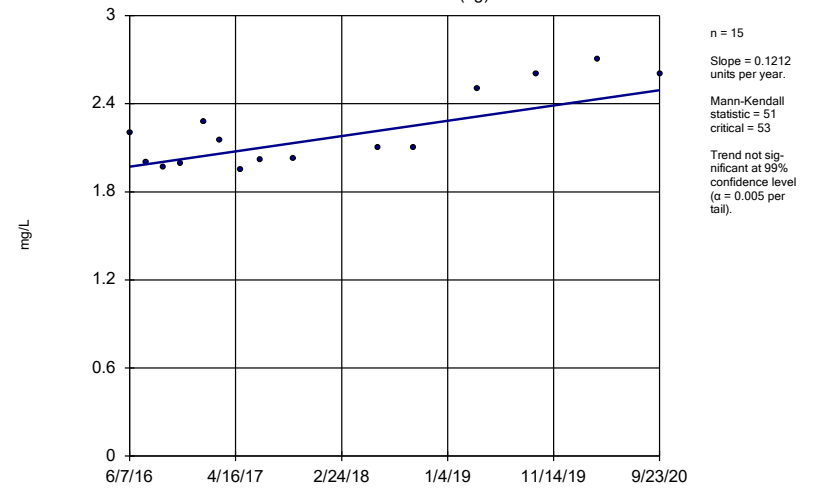
YGWA-47 (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

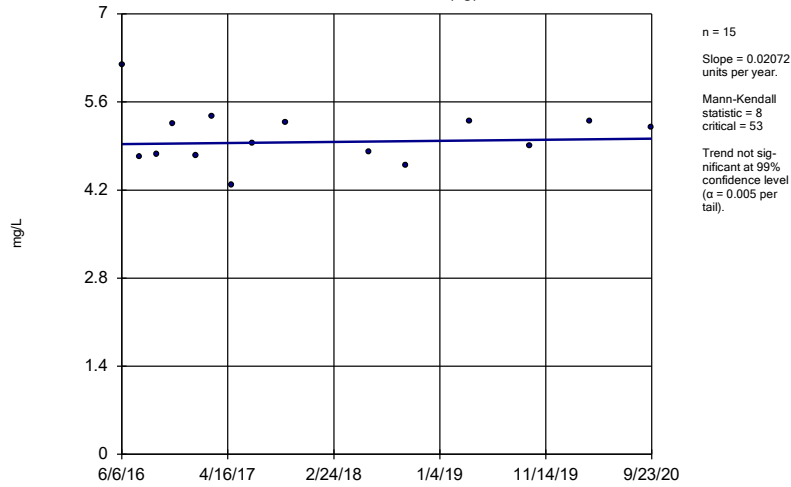
YGWA-17S (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

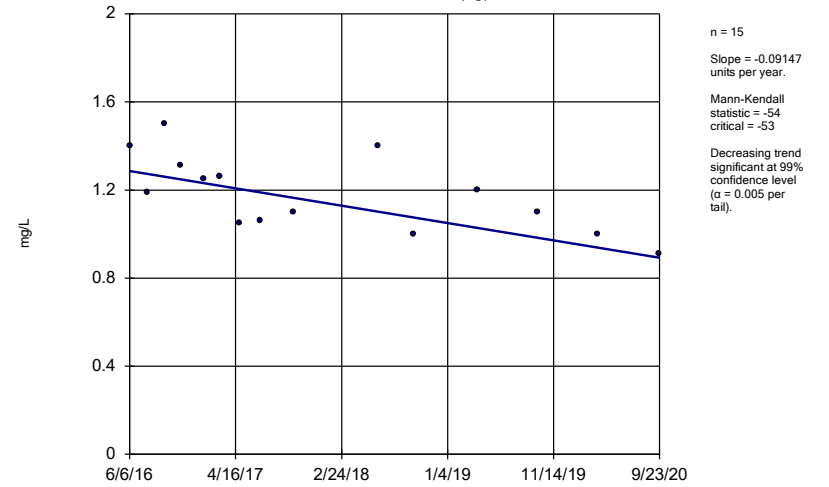
YGWA-18I (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

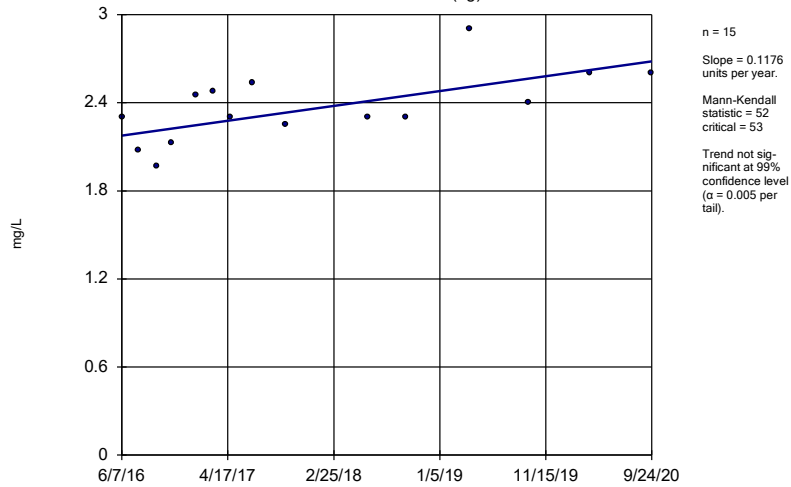
YGWA-18S (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

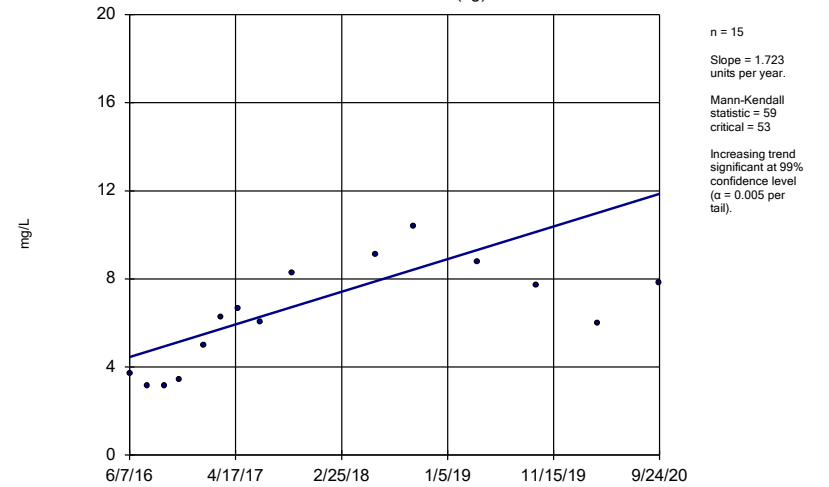
YGWA-20S (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

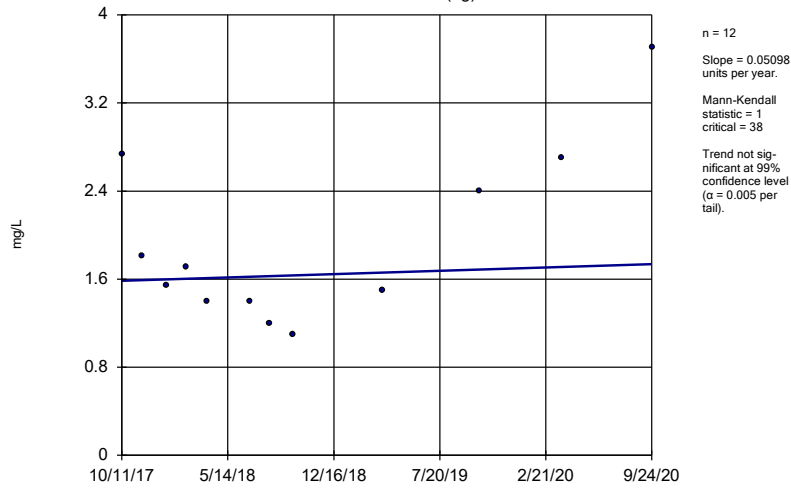
YGWA-21I (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-39 (bg)

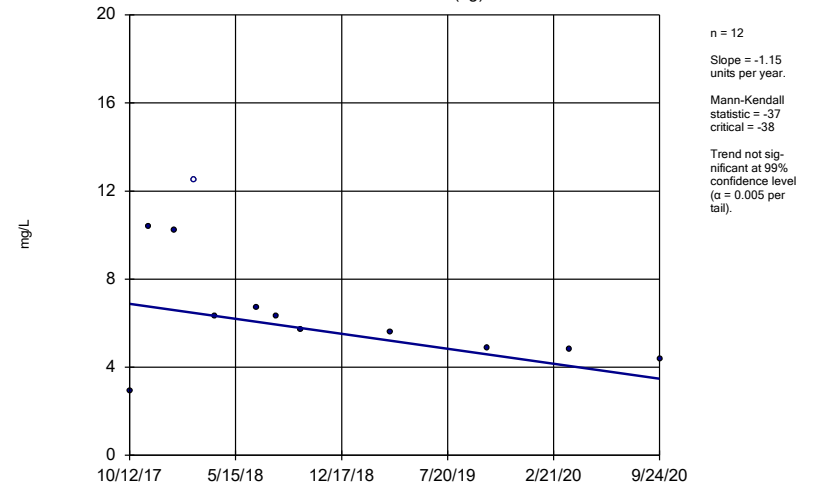


Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

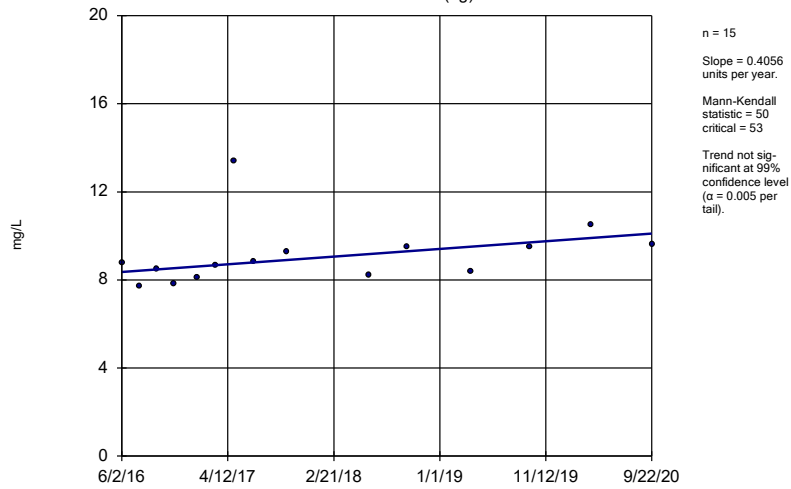
YGWA-40 (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

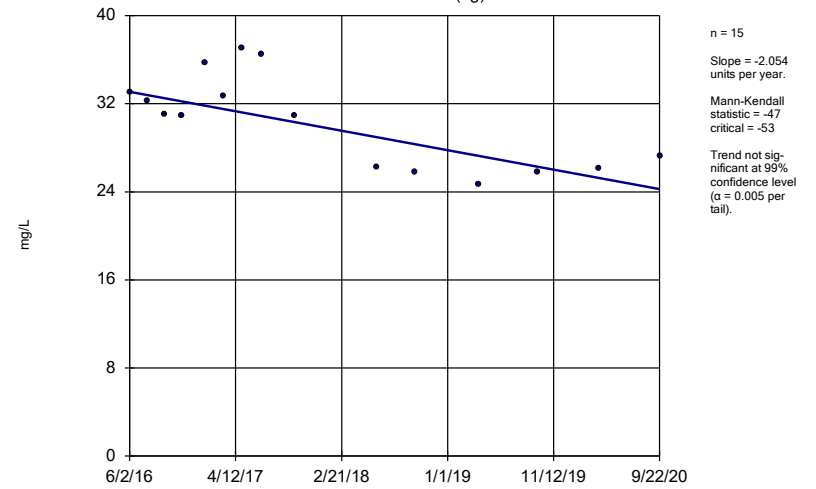
YGWA-41 (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

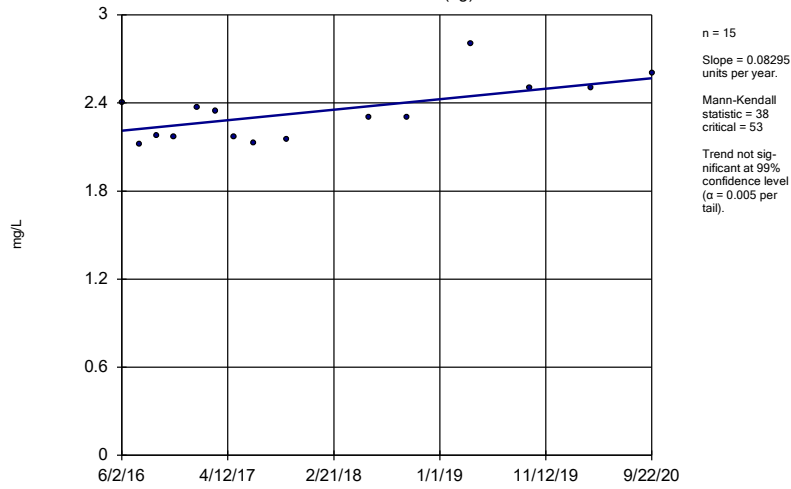
YGWA-5D (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-5I (bg)

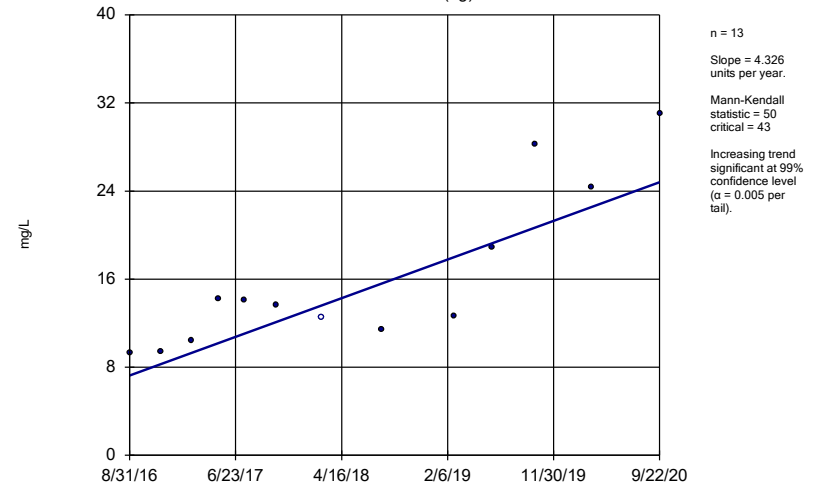


Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Sen's Slope Estimator

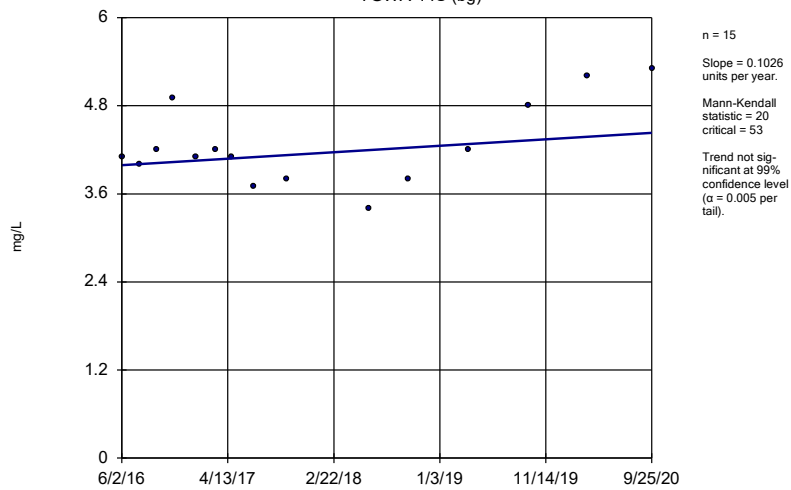
GWA-2 (bg)



Constituent: Calcium Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

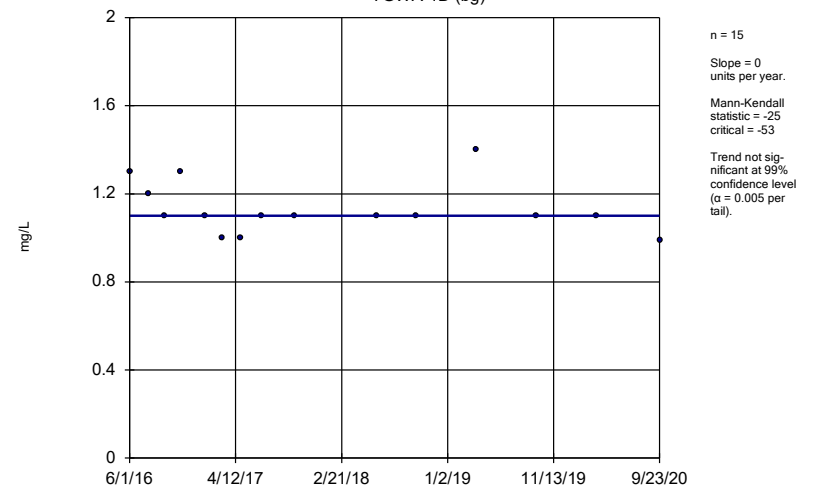
YGWA-14S (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

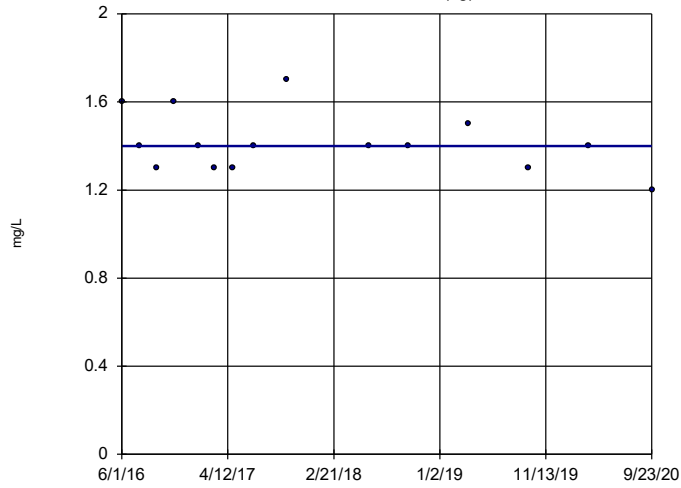
YGWA-1D (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-11 (bg)

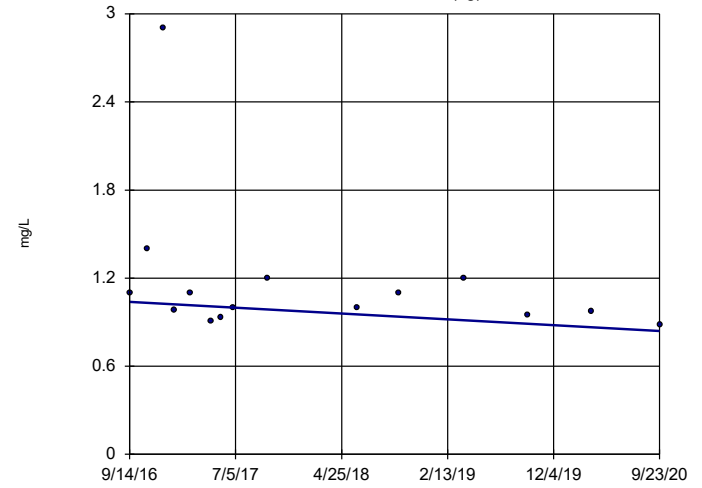


n = 15
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -19
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-21 (bg)

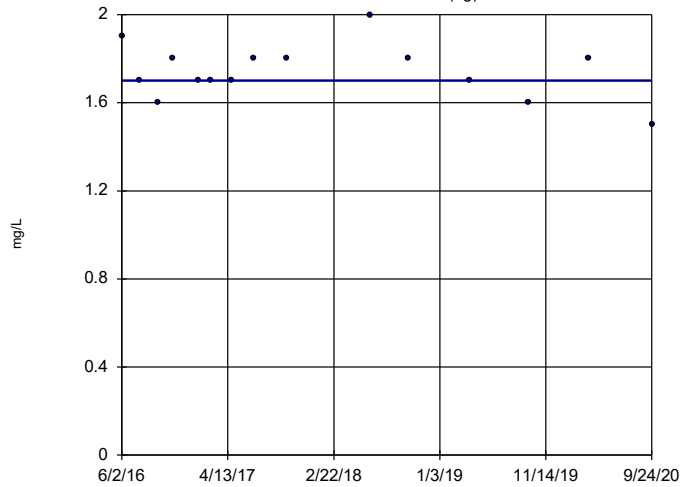


n = 15
 Slope = -0.04955
 units per year.
 Mann-Kendall
 statistic = -30
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-30I (bg)

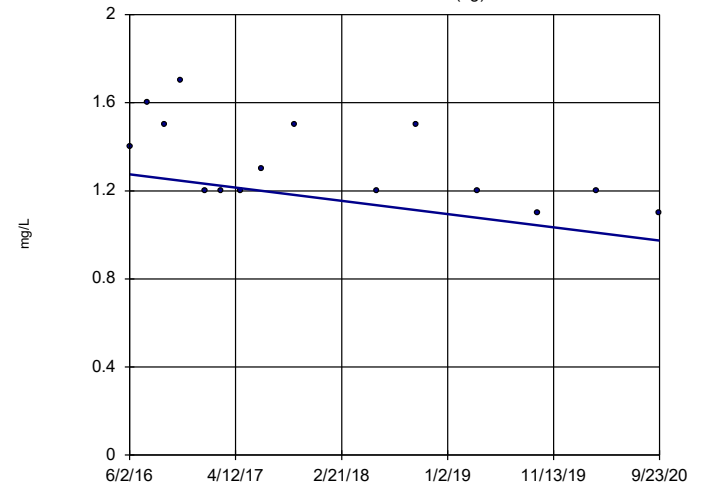


n = 15
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = -10
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3D (bg)

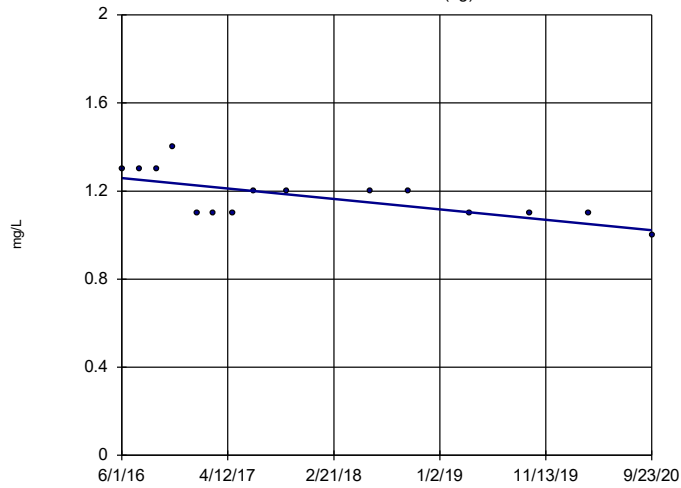


n = 15
 Slope = -0.06957
 units per year.
 Mann-Kendall
 statistic = -46
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 (α = 0.005 per
 tail).

Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWA-3I (bg)

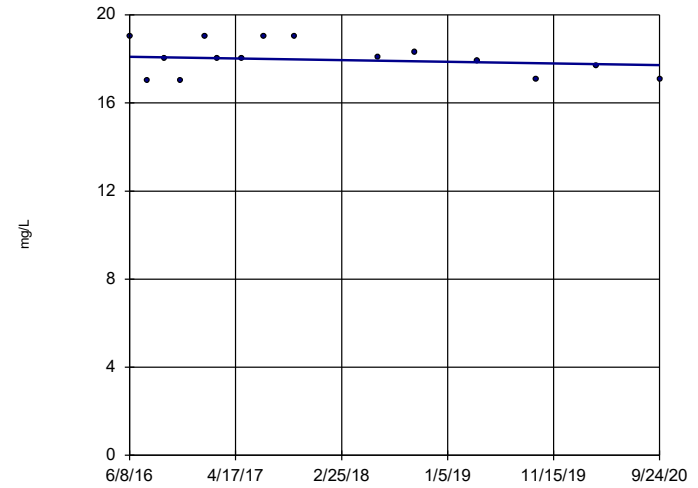


n = 15
 Slope = -0.05476
 units per year.
 Mann-Kendall
 statistic = -51
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26I

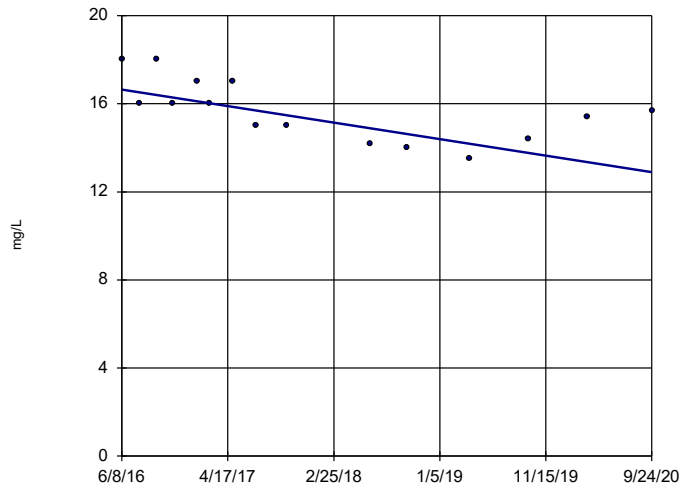


n = 15
 Slope = -0.08575
 units per year.
 Mann-Kendall
 statistic = -18
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

YGWC-26S

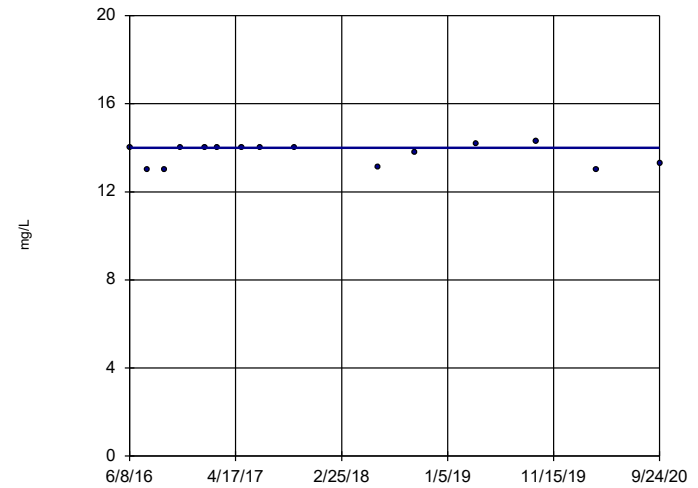


n = 15
 Slope = -0.872
 units per year.
 Mann-Kendall
 statistic = -55
 critical = -53
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

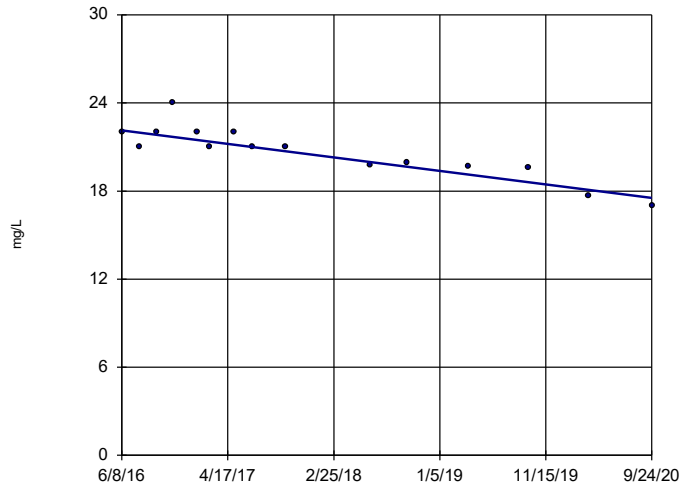
YGWC-27I



n = 15
 Slope = 0
 units per year.
 Mann-Kendall
 statistic = 7
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

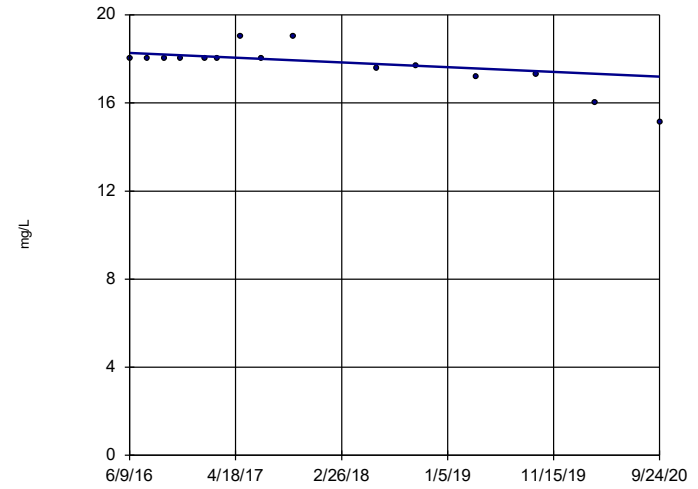
Sen's Slope Estimator YGWC-27S



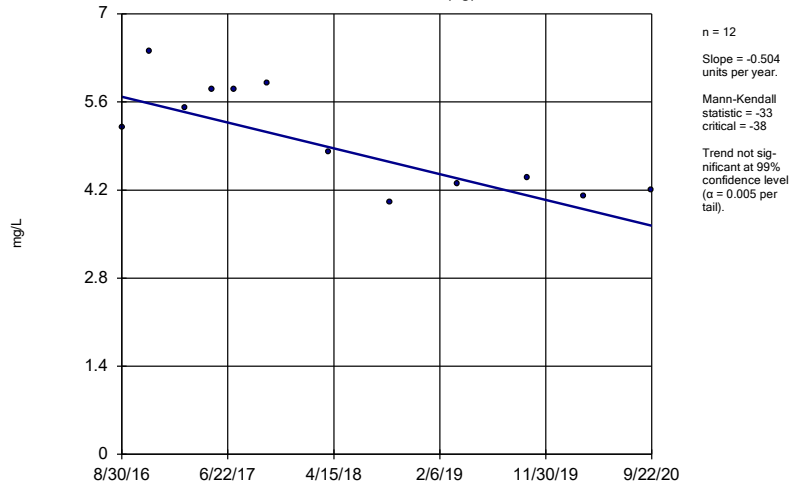
n = 15
Slope = -1.074
units per year.
Mann-Kendall
statistic = -77
critical = -53
Decreasing trend
significant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWC-28I

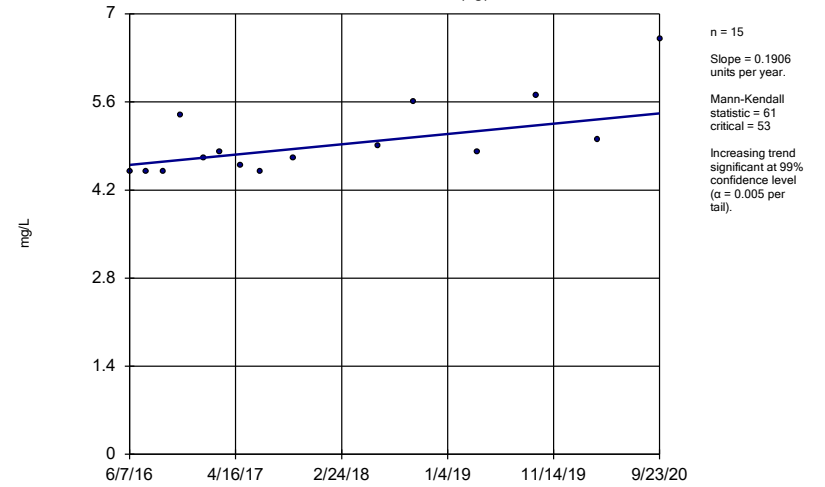


Sen's Slope Estimator
YGWA-47 (bg)



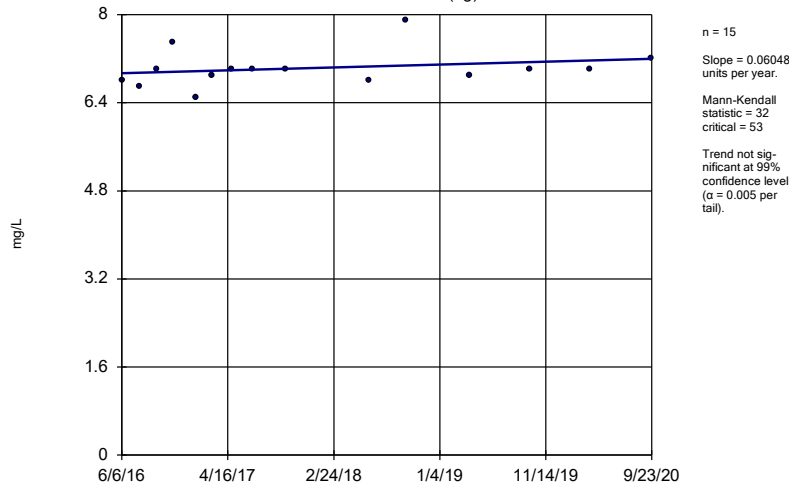
Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-17S (bg)



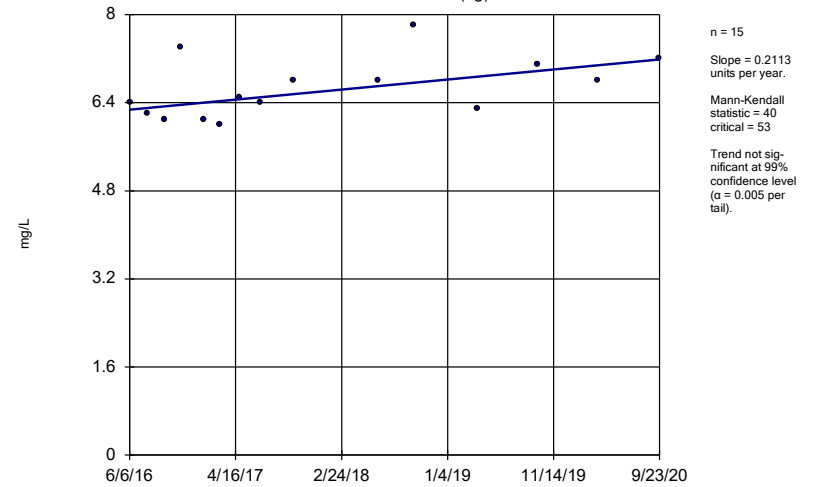
Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-18I (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

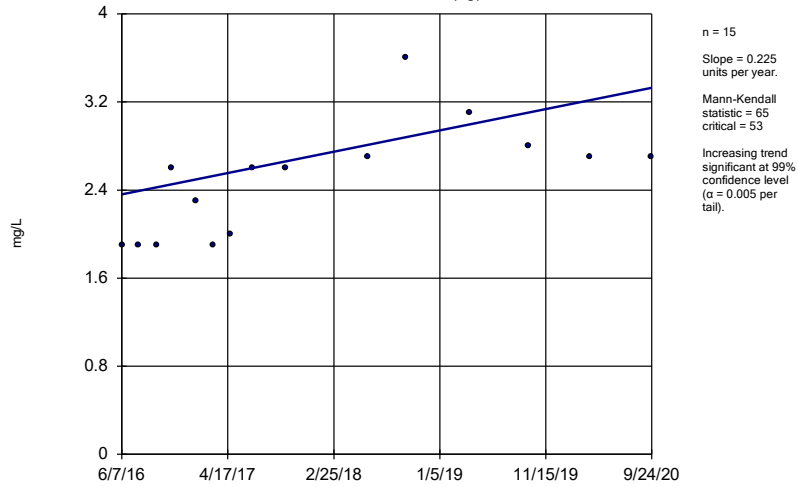
Sen's Slope Estimator
YGWA-18S (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

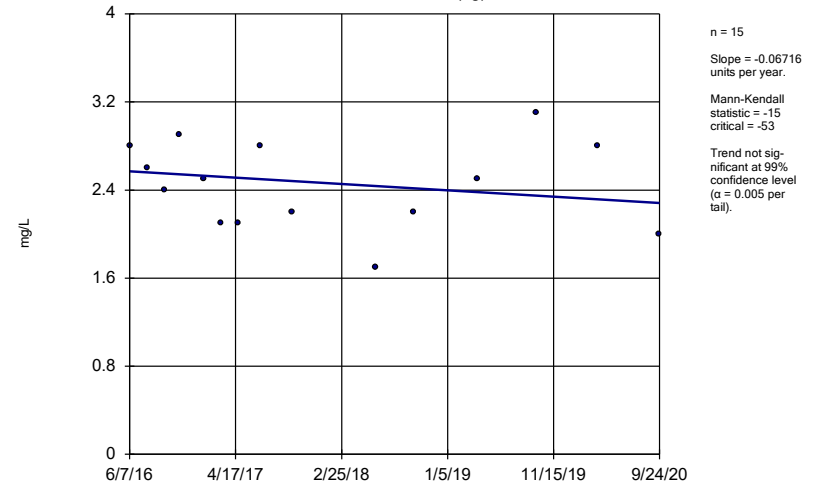
YGWA-20S (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

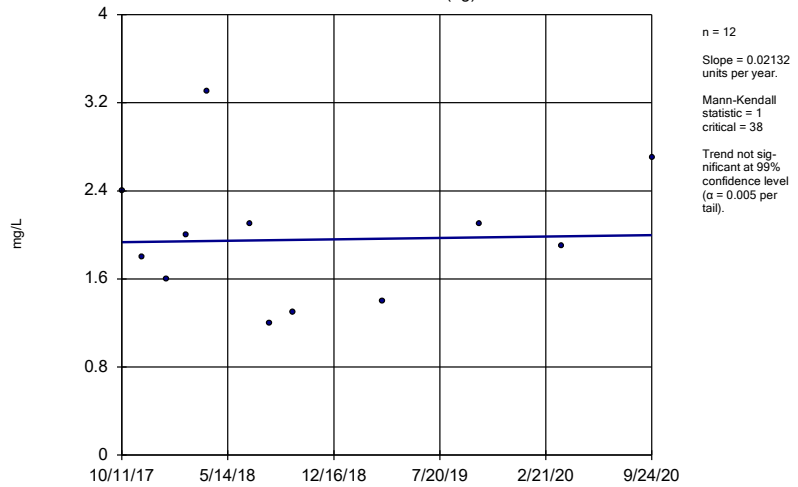
YGWA-211 (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

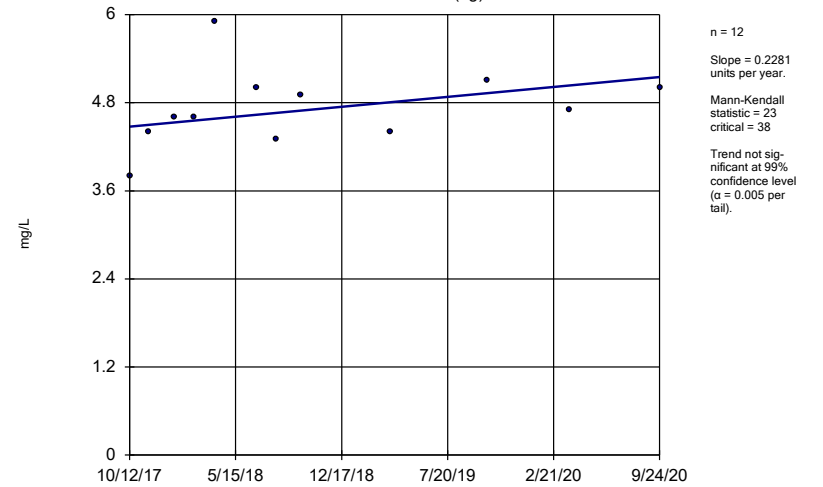
YGWA-39 (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

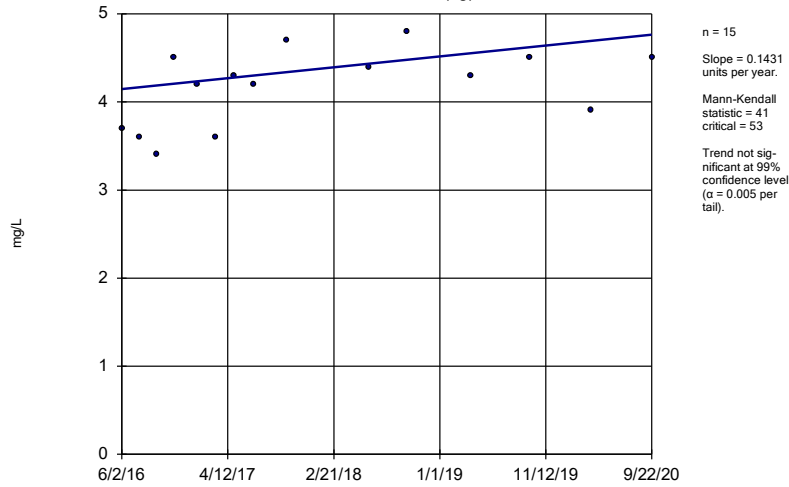
YGWA-40 (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

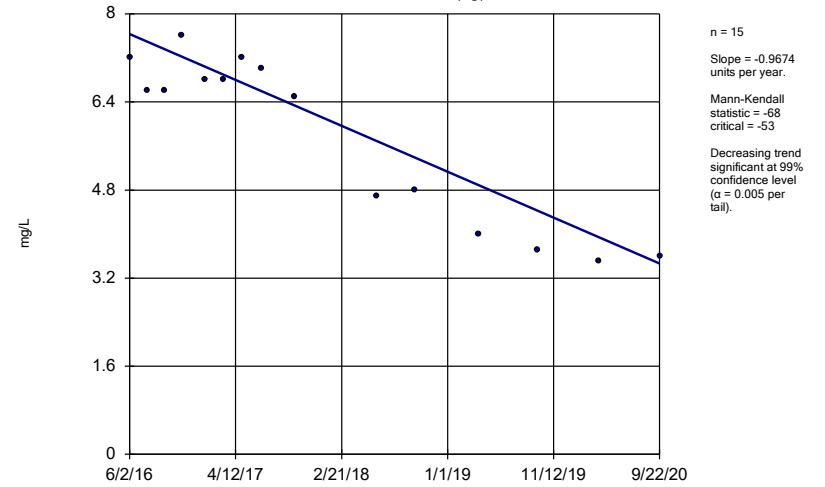
YGWA-4I (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

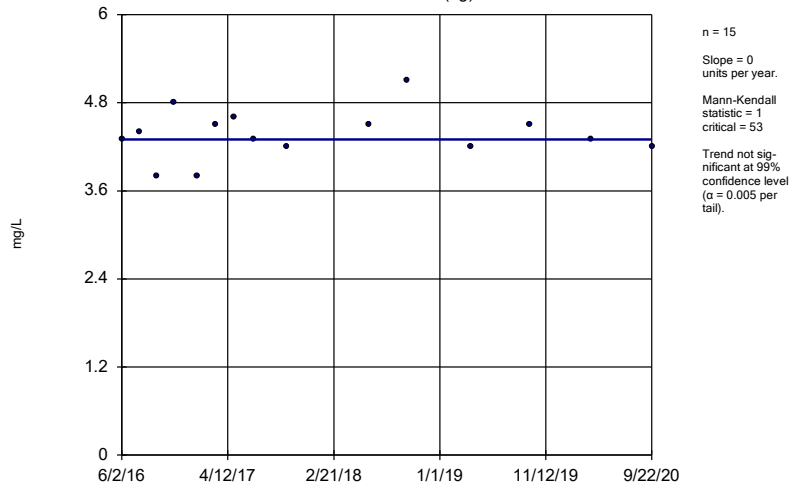
YGWA-5D (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

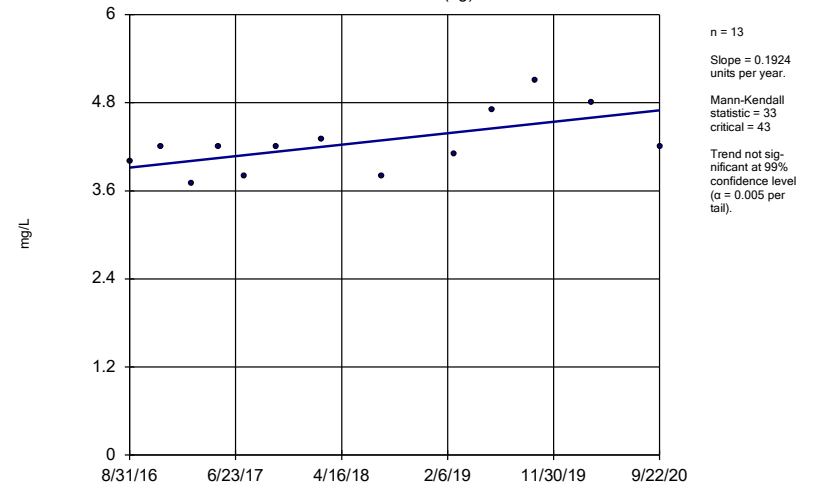
YGWA-5I (bg)



Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

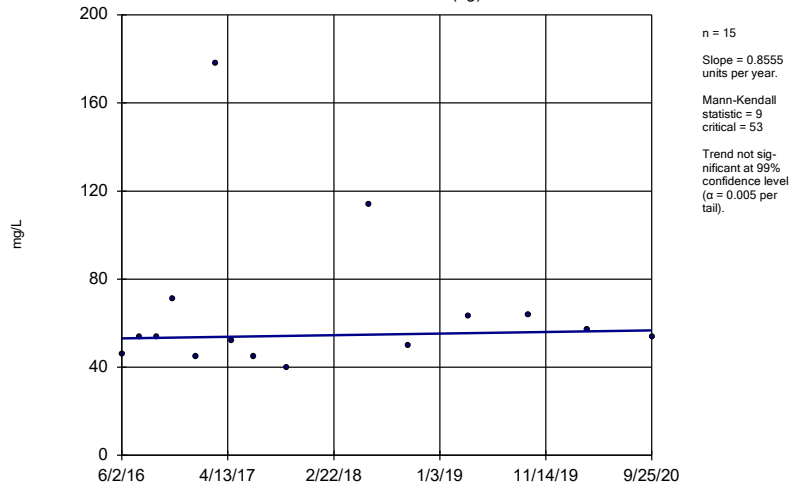
Sen's Slope Estimator

GWA-2 (bg)



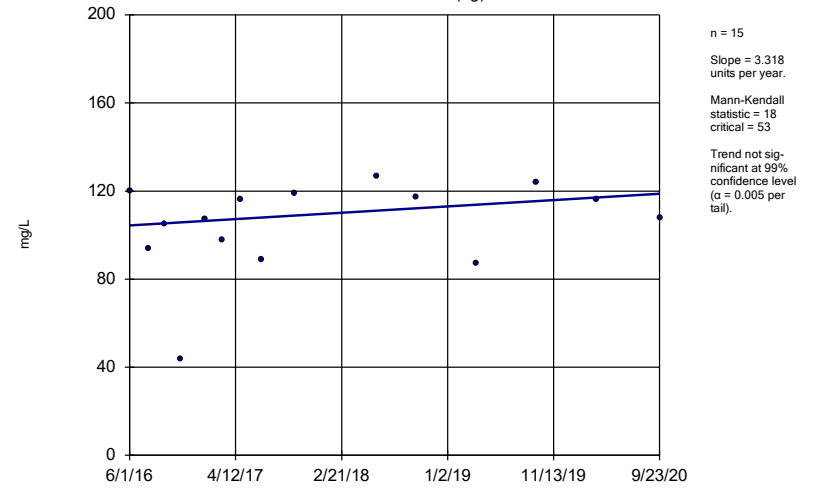
Constituent: Chloride Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-14S (bg)



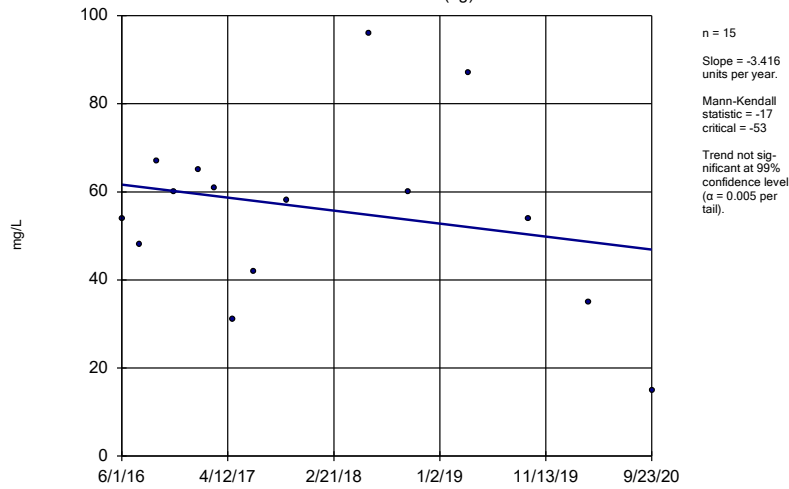
Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:41 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-1D (bg)



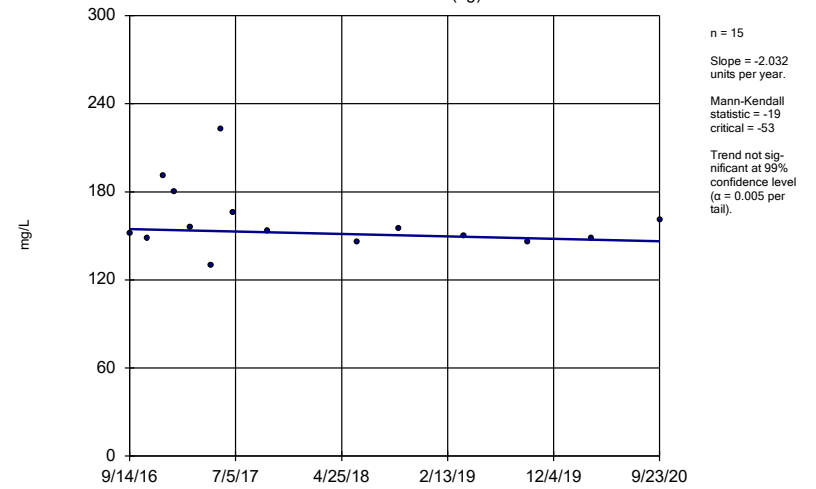
Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator YGWA-11 (bg)



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

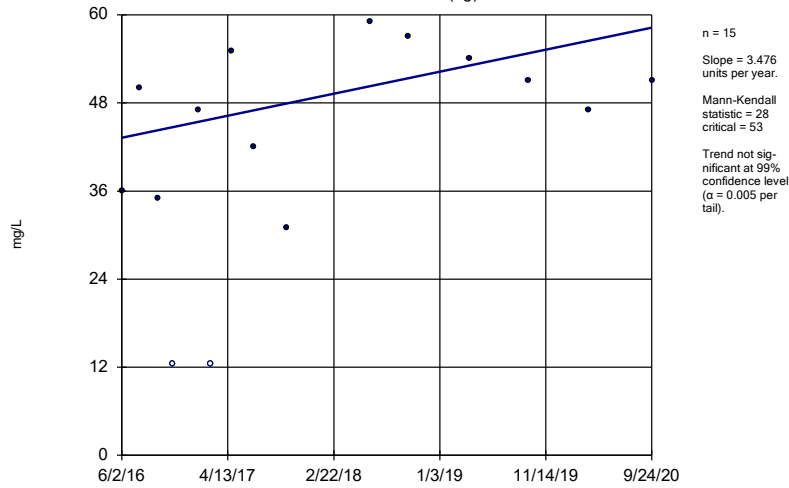
Sen's Slope Estimator YGWA-2I (bg)



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

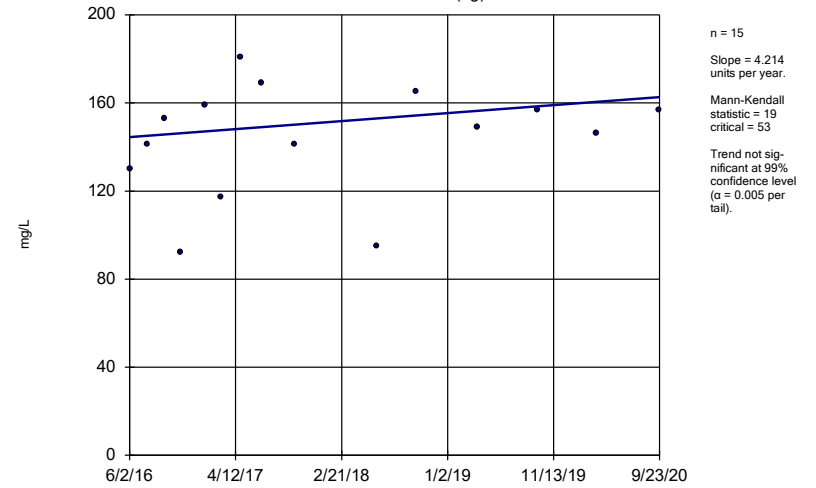
YGWA-30I (bg)



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

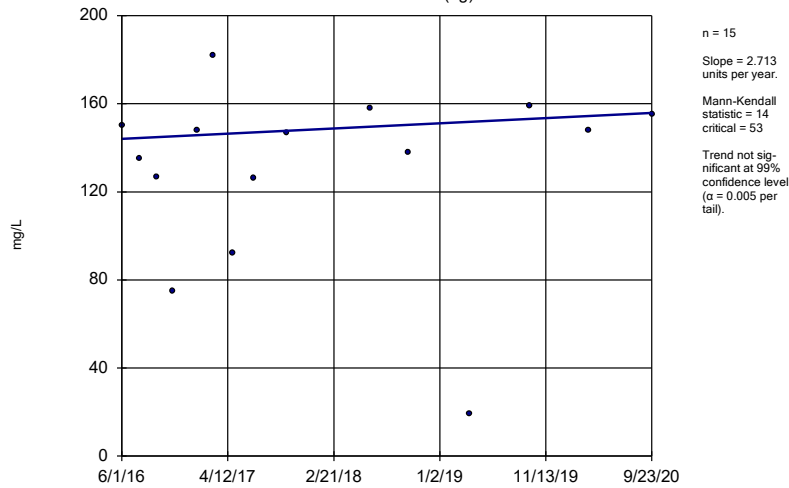
YGWA-3D (bg)



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

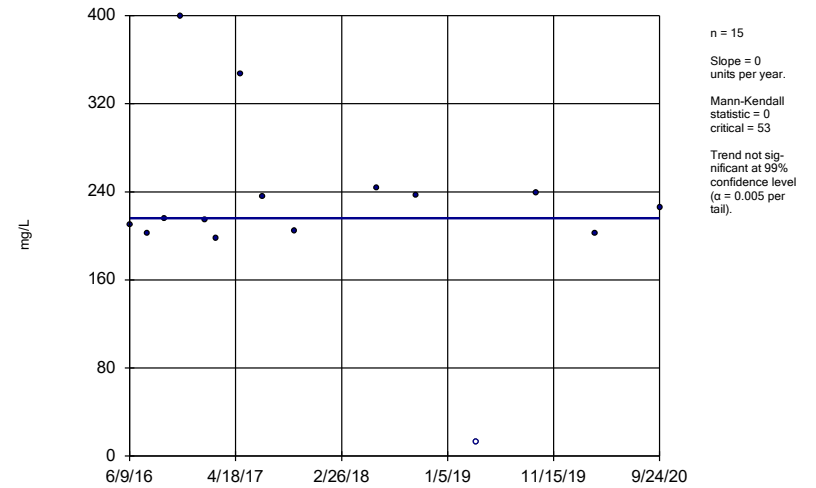
YGWA-3I (bg)



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

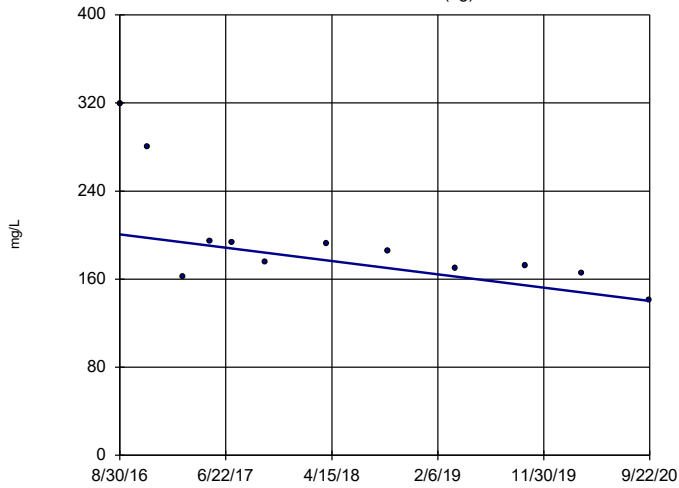
Sen's Slope Estimator

YGWC-28S



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

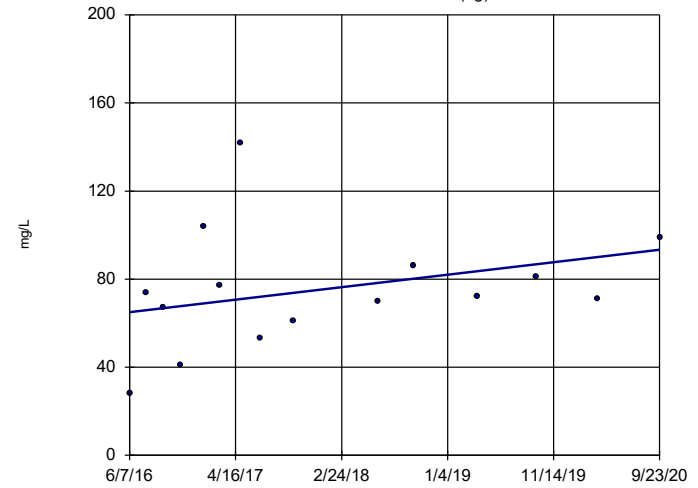
Sen's Slope Estimator YGWA-47 (bg)



n = 12
 Slope = -14.88
 units per year.
 Mann-Kendall
 statistic = -44
 critical = -38
 Decreasing trend
 significant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

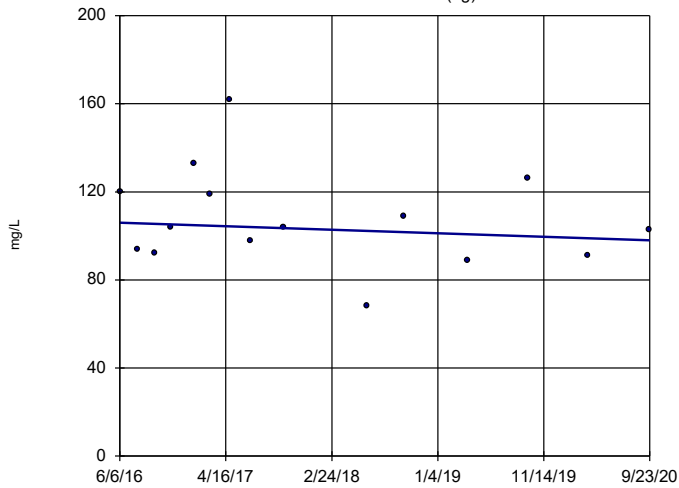
Sen's Slope Estimator YGWA-17S (bg)



n = 15
 Slope = 6.577
 units per year.
 Mann-Kendall
 statistic = 31
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

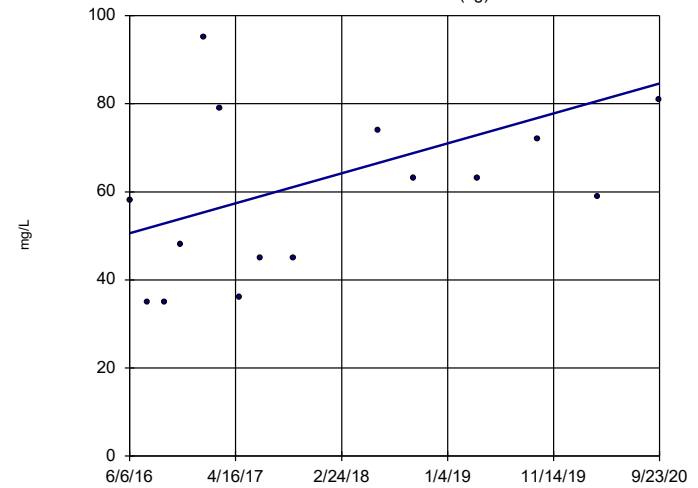
Sen's Slope Estimator YGWA-18I (bg)



n = 15
 Slope = -1.862
 units per year.
 Mann-Kendall
 statistic = -14
 critical = -53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

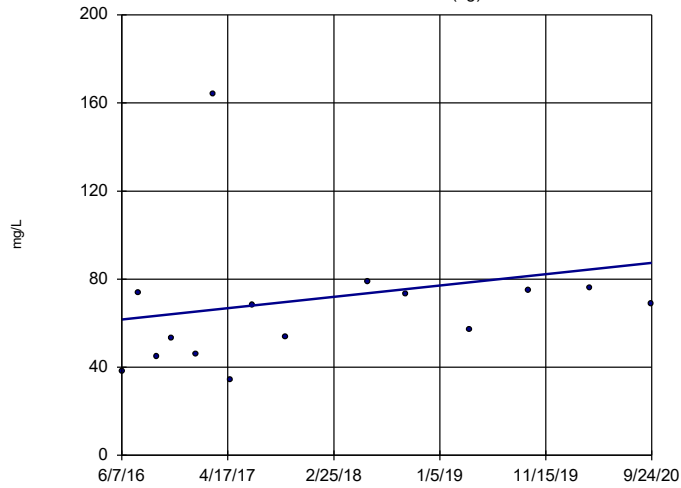
Sen's Slope Estimator YGWA-18S (bg)



n = 15
 Slope = 7.897
 units per year.
 Mann-Kendall
 statistic = 34
 critical = 53
 Trend not sig-
 nificant at 99%
 confidence level
 ($\alpha = 0.005$ per
 tail).

Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

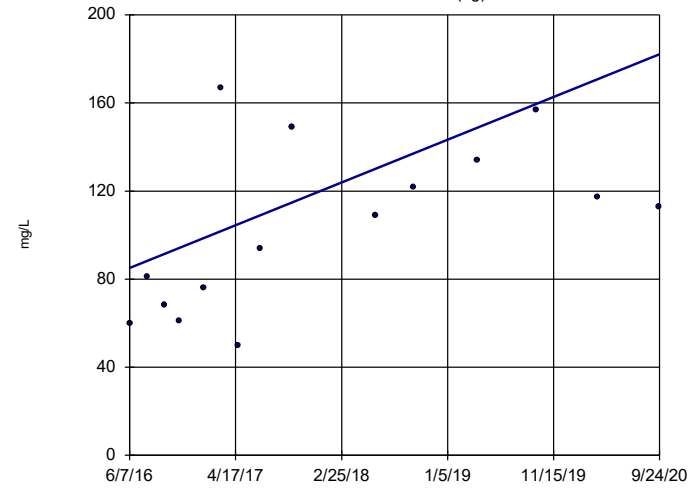
Sen's Slope Estimator
YGWA-20S (bg)



n = 15
Slope = 5.975
units per year.
Mann-Kendall
statistic = 37
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

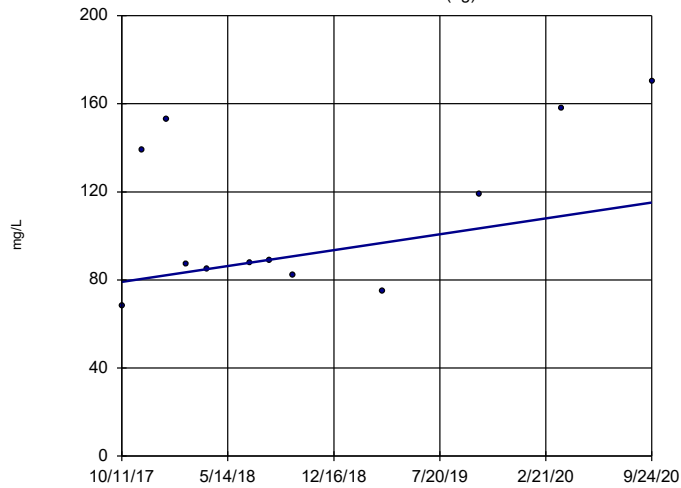
Sen's Slope Estimator
YGWA-211 (bg)



n = 15
Slope = 22.56
units per year.
Mann-Kendall
statistic = 45
critical = 53
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

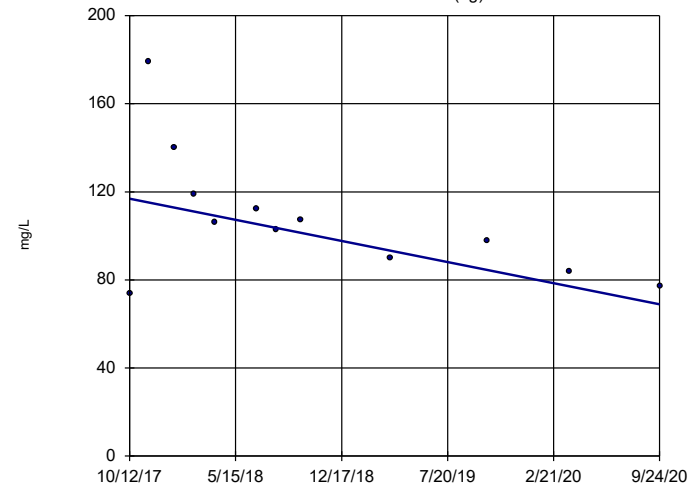
Sen's Slope Estimator
YGWA-39 (bg)



n = 12
Slope = 12.16
units per year.
Mann-Kendall
statistic = 18
critical = 38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator
YGWA-40 (bg)

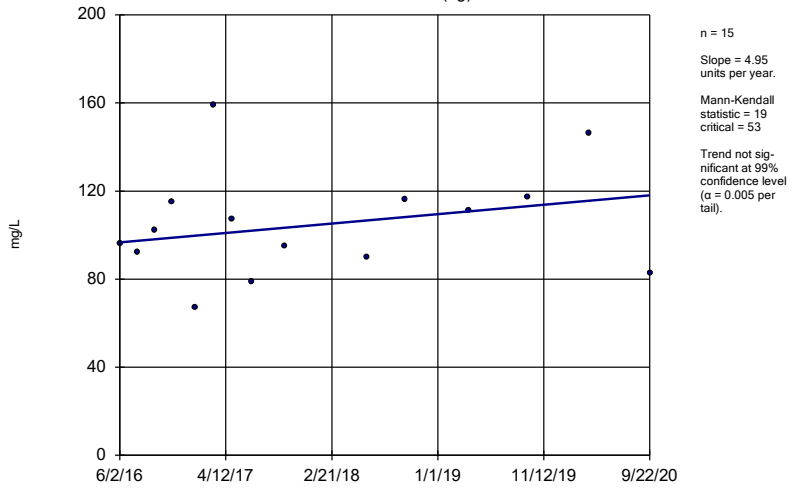


n = 12
Slope = -16.26
units per year.
Mann-Kendall
statistic = -36
critical = -38
Trend not sig-
nificant at 99%
confidence level
($\alpha = 0.005$ per
tail).

Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

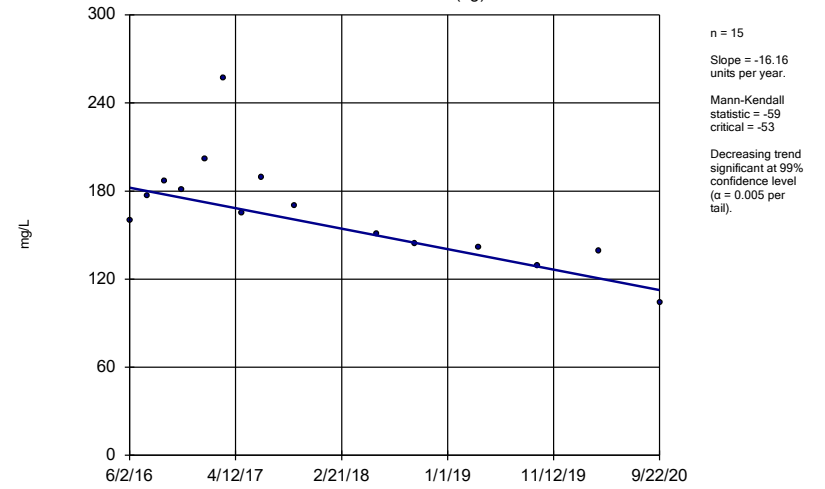
YGWA-4I (bg)



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

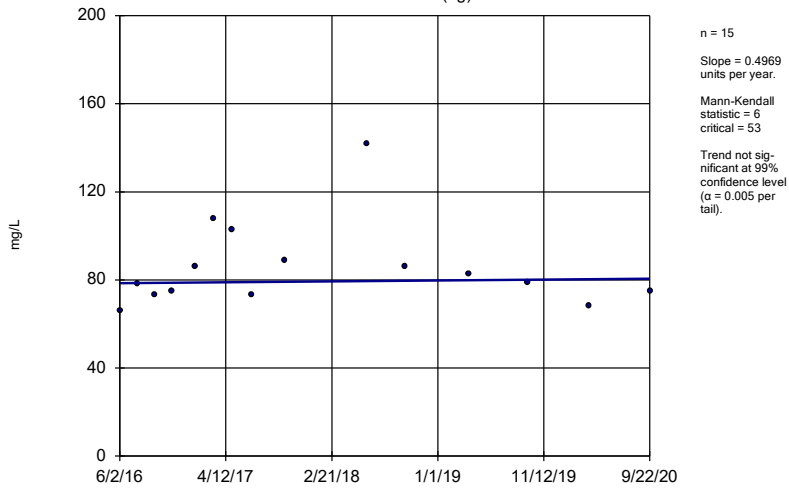
YGWA-5D (bg)



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

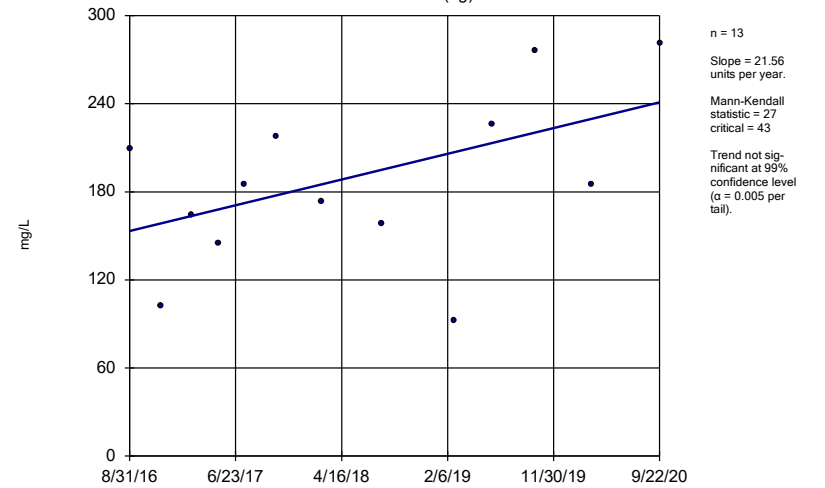
YGWA-5I (bg)



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Sen's Slope Estimator

GWA-2 (bg)



Constituent: Total Dissolved Solids Analysis Run 11/30/2020 3:42 PM View: Appendix III - Trend Tests
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE F.

Upper Tolerance Limit Summary Table

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/25/2020, 7:48 PM

Constituent	Upper Lim.	Lower Lim.	Sig.	Bg N	Bg Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	0.0047	n/a	n/a	280	n/a	n/a	86.43	n/a	n/a	NaN	NP Inter(NDs)
Arsenic (mg/L)	0.005	n/a	n/a	328	n/a	n/a	77.13	n/a	n/a	NaN	NP Inter(NDs)
Barium (mg/L)	0.071	n/a	n/a	328	n/a	n/a	3.354	n/a	n/a	NaN	NP Inter(normality)
Beryllium (mg/L)	0.003	n/a	n/a	312	n/a	n/a	83.01	n/a	n/a	NaN	NP Inter(NDs)
Cadmium (mg/L)	0.0025	n/a	n/a	313	n/a	n/a	96.17	n/a	n/a	NaN	NP Inter(NDs)
Chromium (mg/L)	0.01	n/a	n/a	280	n/a	n/a	77.14	n/a	n/a	NaN	NP Inter(NDs)
Cobalt (mg/L)	0.035	n/a	n/a	326	n/a	n/a	69.63	n/a	n/a	NaN	NP Inter(NDs)
Combined Radium 226 + 228 (pCi/L)	6.92	n/a	n/a	306	n/a	n/a	1.961	n/a	n/a	NaN	NP Inter(normality)
Fluoride (mg/L)	0.68	n/a	n/a	327	n/a	n/a	68.5	n/a	n/a	NaN	NP Inter(NDs)
Lead (mg/L)	0.005	n/a	n/a	282	n/a	n/a	85.82	n/a	n/a	NaN	NP Inter(NDs)
Lithium (mg/L)	0.03	n/a	n/a	307	n/a	n/a	28.34	n/a	n/a	NaN	NP Inter(normality)
Mercury (mg/L)	0.0005	n/a	n/a	251	n/a	n/a	92.43	n/a	n/a	NaN	NP Inter(NDs)
Molybdenum (mg/L)	0.014	n/a	n/a	272	n/a	n/a	59.56	n/a	n/a	NaN	NP Inter(NDs)
Selenium (mg/L)	0.01	n/a	n/a	311	n/a	n/a	91	n/a	n/a	NaN	NP Inter(NDs)
Thallium (mg/L)	0.001	n/a	n/a	281	n/a	n/a	96.44	n/a	n/a	NaN	NP Inter(NDs)

FIGURE G.

YATES ASH POND 2 GWPS					
Constituent Name	MCL	CCR-Rule Specified	Background Limit	Federal GWPS	State GWPS
Antimony, Total (mg/L)	0.006		0.0047	0.006	0.006
Arsenic, Total (mg/L)	0.01		0.005	0.01	0.01
Barium, Total (mg/L)	2		0.071	2	2
Beryllium, Total (mg/L)	0.004		0.003	0.004	0.004
Cadmium, Total (mg/L)	0.005		0.001	0.005	0.005
Chromium, Total (mg/L)	0.1		0.01	0.1	0.1
Cobalt, Total (mg/L)		0.006	0.035	0.035	0.035
Combined Radium, Total (pCi/L)	5		6.9	6.9	6.9
Fluoride, Total (mg/L)	4		0.68	4	4
Lead, Total (mg/L)		0.015	0.005	0.015	0.005
Lithium, Total (mg/L)		0.04	0.03	0.04	0.03
Mercury, Total (mg/L)	0.002		0.0005	0.002	0.002
Molybdenum, Total (mg/L)		0.1	0.014	0.1	0.014
Selenium, Total (mg/L)	0.05		0.01	0.05	0.05
Thallium, Total (mg/L)	0.002		0.001	0.002	0.002

**Grey cell indicates Background Limit is higher than MCL or CCR Rule Specified Level*

**MCL = Maximum Contaminant Level*

**CCR = Coal Combustion Residual*

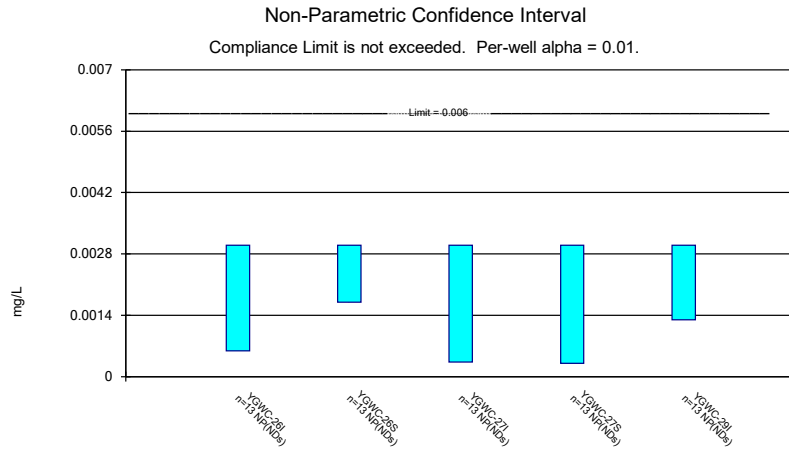
**GWPS = Groundwater Protection Standard*

FIGURE H.

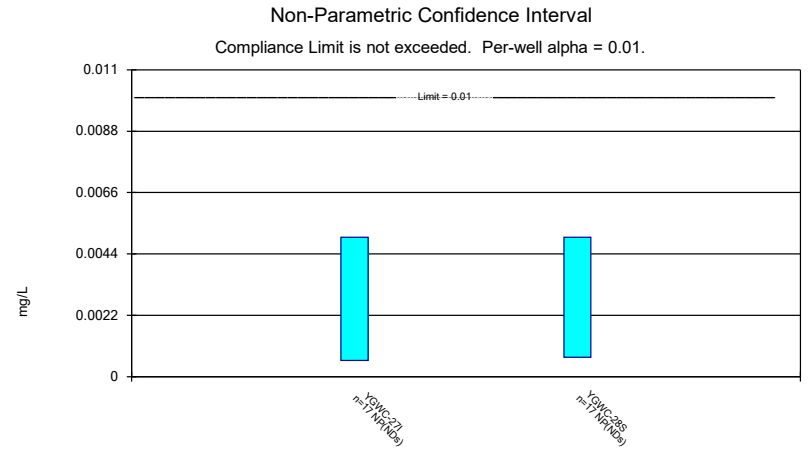
Federal Confidence Intervals Summary - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/25/2020, 1:20 PM

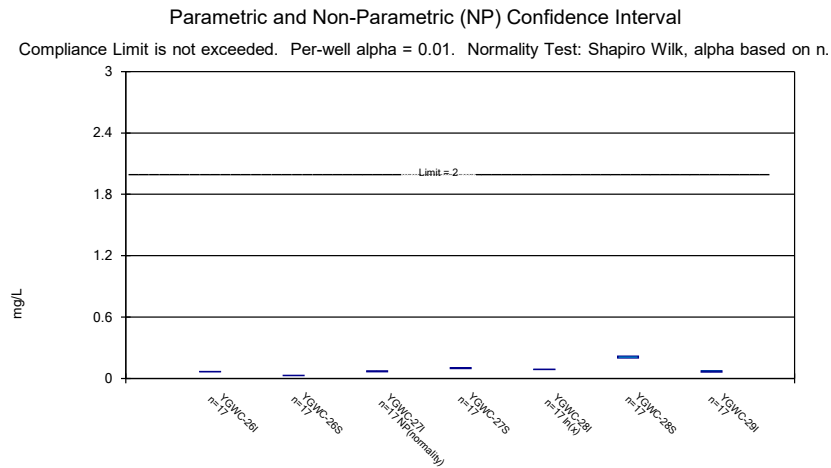
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.00059	0.006	No 13	0.002624	0.0009183	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No 13	0.002792	0.0005074	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No 13	0.002795	0.0007405	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No 13	0.002792	0.0007488	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No 13	0.002869	0.0004715	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00058	0.01	No 17	0.002967	0.002227	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No 17	0.002971	0.00222	52.94	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06681	0.06285	2	No 17	0.06483	0.003162	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02851	0.0263	2	No 17	0.02741	0.001759	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0721	0.063	2	No 17	0.06773	0.006446	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1059	0.09603	2	No 17	0.101	0.007866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09076	0.0855	2	No 17	0.08818	0.004249	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2168	0.2	2	No 17	0.2084	0.01337	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.07244	0.06164	2	No 17	0.06704	0.008624	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-26S	0.003	0.0001	0.004	No 15	0.000533	0.001002	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.00019	0.004	No 15	0.0007507	0.001165	20	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28I	0.00055	0.00009	0.005	No 15	0.00033	0.0003972	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-29I	0.00033	0.0001	0.005	No 15	0.0003367	0.0003759	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No 15	0.005919	0.004638	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002584	0.00115	0.1	No 15	0.003725	0.003468	20	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.00057	0.1	No 15	0.009071	0.003696	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No 15	0.008094	0.003946	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0006	0.1	No 15	0.008106	0.003921	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No 15	0.009367	0.002453	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002892	0.001865	0.035	No 17	0.002418	0.0008855	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01979	0.003135	0.035	No 17	0.02028	0.02795	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No 17	0.002518	0.0006598	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No 17	0.004731	0.001111	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00085	0.035	No 17	0.001239	0.0009802	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No 17	0.003948	0.001956	76.47	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.21	0.519	6.9	No 16	0.8644	0.5309	6.25	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9299	0.5711	6.9	No 17	0.7505	0.2863	5.882	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.216	2.956	6.9	No 17	3.586	1.006	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.13	0.6987	6.9	No 17	0.9145	0.3443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.947	0.261	6.9	No 17	0.63	0.3463	5.882	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9194	0.4695	6.9	No 17	0.6944	0.359	5.882	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.181	0.7153	6.9	No 17	0.9482	0.3718	5.882	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No 18	0.08611	0.01887	44.44	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No 18	0.1369	0.1043	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.086	4	No 18	0.09606	0.02432	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2221	0.1076	4	No 18	0.1713	0.1076	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.08	4	No 18	0.1333	0.08429	27.78	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2796	0.1593	4	No 18	0.2194	0.09944	11.11	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.1	0.059	4	No 18	0.08544	0.02493	38.89	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.005	0.000059	0.015	No 13	0.00462	0.00137	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.005	0.00008	0.015	No 13	0.003865	0.002157	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.005	0.000085	0.015	No 13	0.003517	0.002317	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.005	0.000063	0.015	No 13	0.003482	0.00237	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.005	0.000095	0.015	No 13	0.004623	0.00136	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007061	0.006492	0.04	No 17	0.006776	0.0004535	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01069	0.008326	0.04	No 17	0.009506	0.001884	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28I	0.007076	0.006642	0.04	No 17	0.006859	0.0003465	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-29I	0.006554	0.005434	0.04	No 17	0.005994	0.0008934	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.1	No 17	0.006447	0.00438	58.82	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.1	No 17	0.005912	0.00447	52.94	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00075	0.1	No 17	0.008356	0.003661	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0017	0.05	No 15	0.003073	0.002834	13.33	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0014	0.05	No 15	0.00762	0.004093	73.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No 15	0.009413	0.002272	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No 15	0.0094	0.002324	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No 13	0.0008548	0.0003545	84.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No 13	0.0005869	0.0004644	53.85	None	No	0.01	NP (NDs)



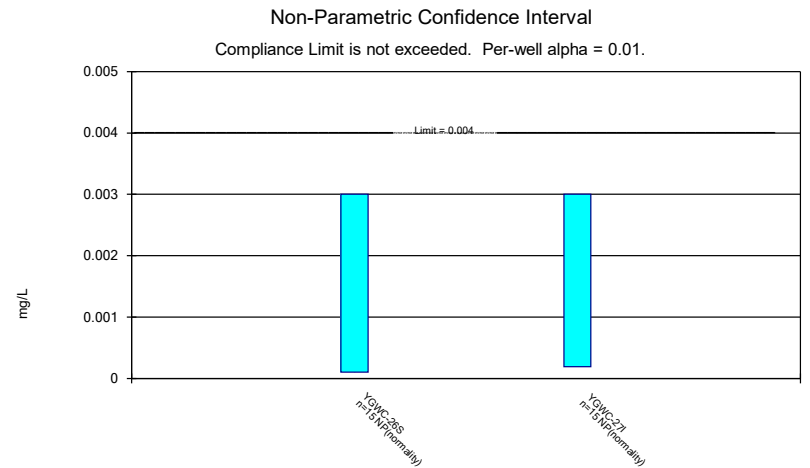
Constituent: Antimony Analysis Run 11/25/2020 1:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 11/25/2020 1:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



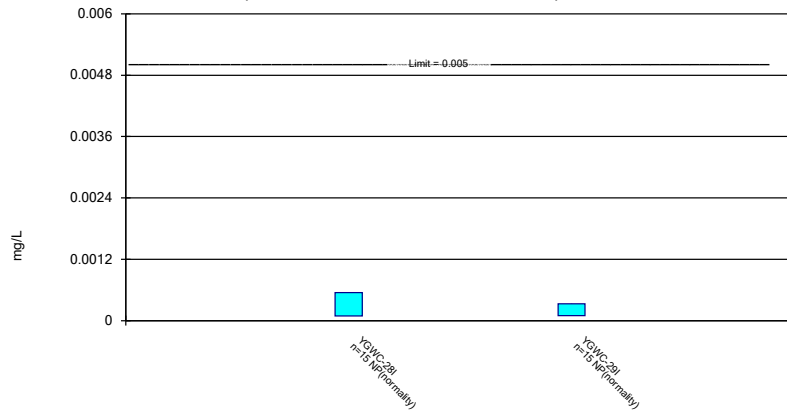
Constituent: Barium Analysis Run 11/25/2020 1:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 11/25/2020 1:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

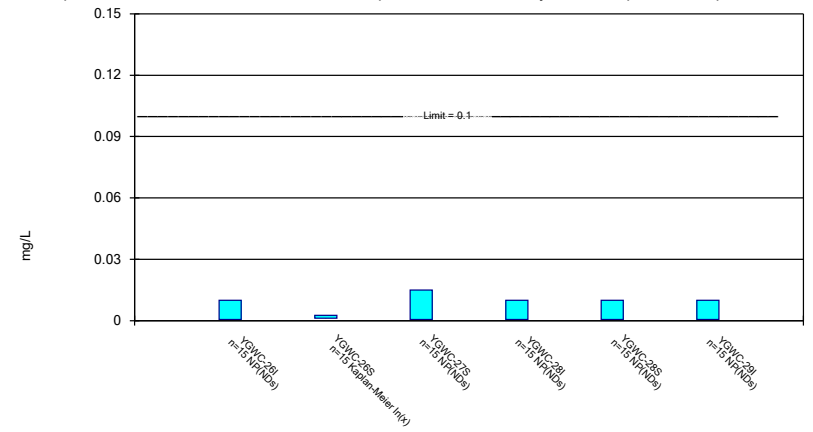
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 11/25/2020 1:19 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

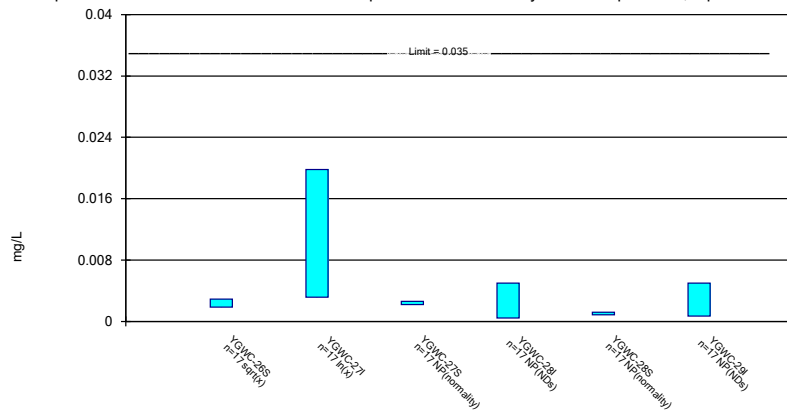
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 11/25/2020 1:19 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

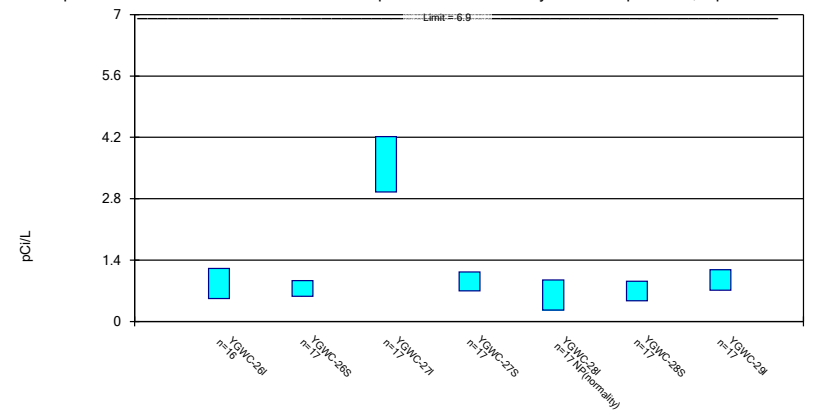
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/25/2020 1:19 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

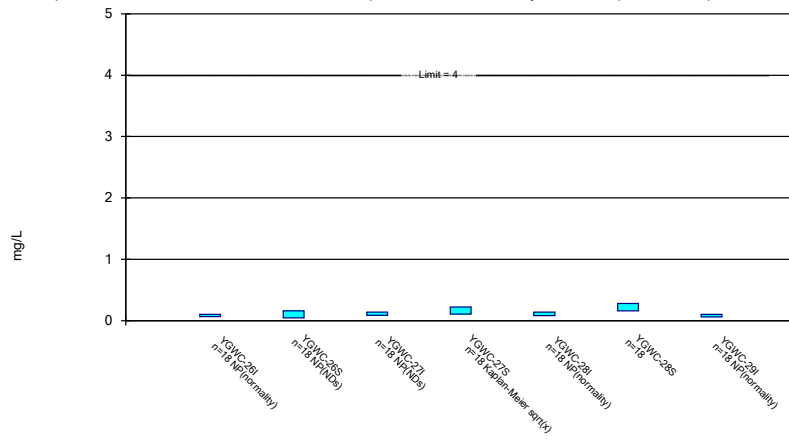
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2020 1:19 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

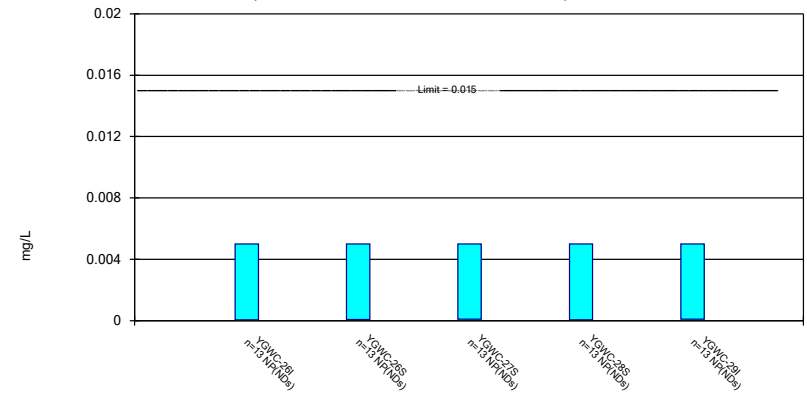
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/25/2020 1:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

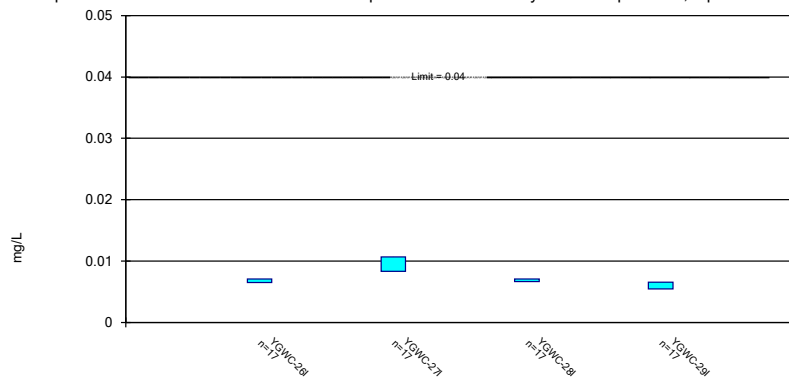
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Lead Analysis Run 11/25/2020 1:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

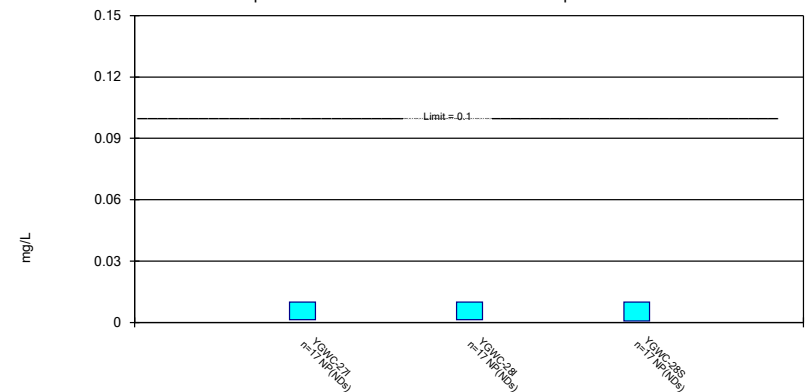
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/25/2020 1:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

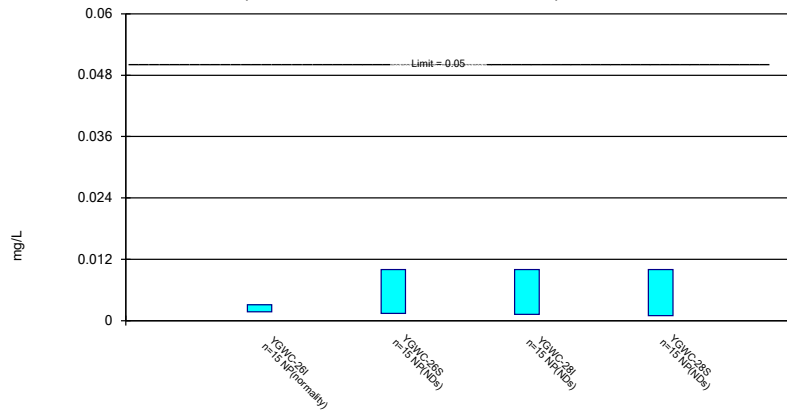
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 11/25/2020 1:19 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

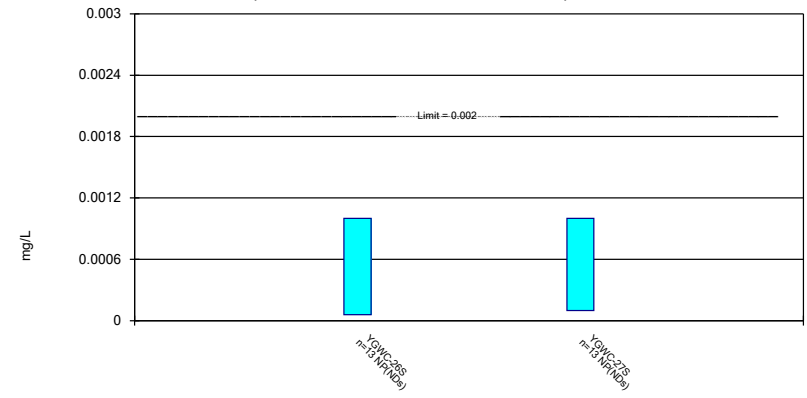
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Selenium Analysis Run 11/25/2020 1:19 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.



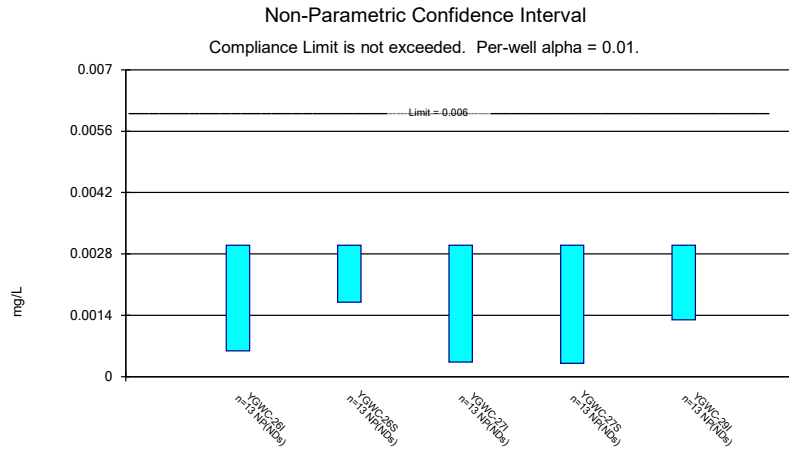
Constituent: Thallium Analysis Run 11/25/2020 1:19 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

FIGURE I.

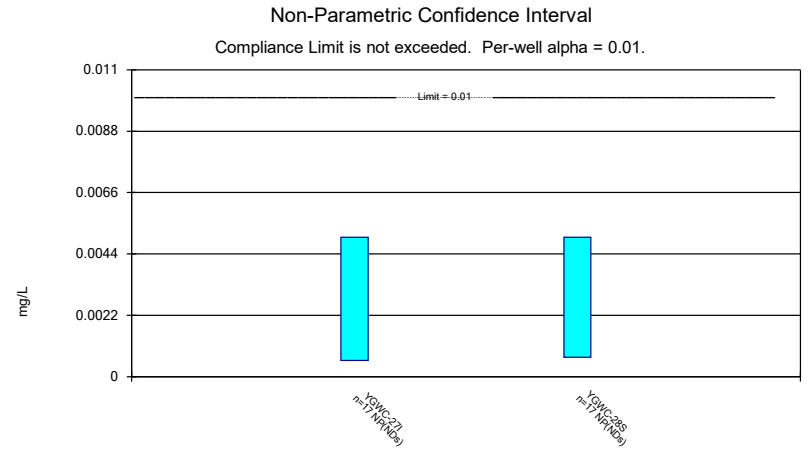
State Confidence Intervals Summary - All Results (No Significant)

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/25/2020, 1:23 PM

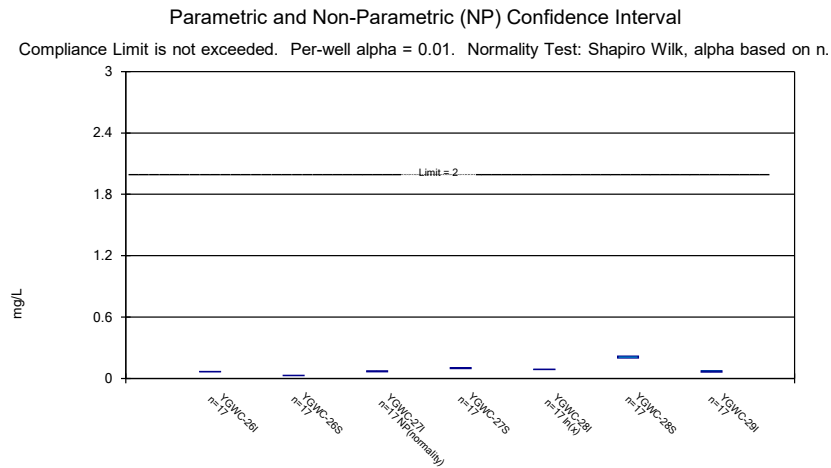
Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig. N	Mean	Std. Dev.	%NDs	ND Adj.	Transform	Alpha	Method
Antimony (mg/L)	YGWC-26I	0.003	0.00059	0.006	No 13	0.002624	0.0009183	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-26S	0.003	0.0017	0.006	No 13	0.002792	0.0005074	84.62	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27I	0.003	0.00033	0.006	No 13	0.002795	0.0007405	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-27S	0.003	0.0003	0.006	No 13	0.002792	0.0007488	92.31	None	No	0.01	NP (NDs)
Antimony (mg/L)	YGWC-29I	0.003	0.0013	0.006	No 13	0.002869	0.0004715	92.31	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.00058	0.01	No 17	0.002967	0.002227	52.94	None	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No 17	0.002971	0.00222	52.94	None	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06681	0.06285	2	No 17	0.06483	0.003162	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02851	0.0263	2	No 17	0.02741	0.001759	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0721	0.063	2	No 17	0.06773	0.006446	0	None	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1059	0.09603	2	No 17	0.101	0.007866	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09076	0.0855	2	No 17	0.08818	0.004249	0	None	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2168	0.2	2	No 17	0.2084	0.01337	0	None	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.07244	0.06164	2	No 17	0.06704	0.008624	0	None	No	0.01	Param.
Beryllium (mg/L)	YGWC-26S	0.003	0.0001	0.004	No 15	0.000533	0.001002	13.33	None	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.00019	0.004	No 15	0.0007507	0.001165	20	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28I	0.00055	0.00009	0.005	No 15	0.00033	0.0003972	13.33	None	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-29I	0.00033	0.0001	0.005	No 15	0.0003367	0.0003759	13.33	None	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No 15	0.005919	0.004638	53.33	None	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-26S	0.002584	0.00115	0.1	No 15	0.003725	0.003468	20	Kaplan-Meier	ln(x)	0.01	Param.
Chromium (mg/L)	YGWC-27S	0.015	0.00057	0.1	No 15	0.009071	0.003696	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No 15	0.008094	0.003946	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0006	0.1	No 15	0.008106	0.003921	80	Kaplan-Meier	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No 15	0.009367	0.002453	93.33	Kaplan-Meier	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002892	0.001865	0.035	No 17	0.002418	0.0008855	5.882	None	sqrt(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.01979	0.003135	0.035	No 17	0.02028	0.02795	0	None	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.0026	0.0022	0.035	No 17	0.002518	0.0006598	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No 17	0.004731	0.001111	94.12	None	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0012	0.00085	0.035	No 17	0.001239	0.0009802	5.882	None	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.0007	0.035	No 17	0.003948	0.001956	76.47	None	No	0.01	NP (NDs)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.21	0.519	6.9	No 16	0.8644	0.5309	6.25	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9299	0.5711	6.9	No 17	0.7505	0.2863	5.882	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.216	2.956	6.9	No 17	3.586	1.006	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.13	0.6987	6.9	No 17	0.9145	0.3443	0	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.947	0.261	6.9	No 17	0.63	0.3463	5.882	None	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.9194	0.4695	6.9	No 17	0.6944	0.359	5.882	None	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.181	0.7153	6.9	No 17	0.9482	0.3718	5.882	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.1	0.064	4	No 18	0.08611	0.01887	44.44	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-26S	0.16	0.044	4	No 18	0.1369	0.1043	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27I	0.14	0.086	4	No 18	0.09606	0.02432	66.67	None	No	0.01	NP (NDs)
Fluoride (mg/L)	YGWC-27S	0.2221	0.1076	4	No 18	0.1713	0.1076	16.67	Kaplan-Meier	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.14	0.08	4	No 18	0.1333	0.08429	27.78	None	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.2796	0.1593	4	No 18	0.2194	0.09944	11.11	None	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.1	0.059	4	No 18	0.08544	0.02493	38.89	None	No	0.01	NP (normality)
Lead (mg/L)	YGWC-26I	0.005	0.000059	0.005	No 13	0.00462	0.00137	92.31	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-26S	0.005	0.00008	0.005	No 13	0.003865	0.002157	76.92	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-27S	0.005	0.000085	0.005	No 13	0.003517	0.002317	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-28S	0.005	0.000063	0.005	No 13	0.003482	0.00237	69.23	None	No	0.01	NP (NDs)
Lead (mg/L)	YGWC-29I	0.005	0.000095	0.005	No 13	0.004623	0.00136	92.31	None	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-26I	0.007061	0.006492	0.03	No 17	0.006776	0.0004535	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-27I	0.01069	0.008326	0.03	No 17	0.009506	0.001884	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-28I	0.007076	0.006642	0.03	No 17	0.006859	0.0003465	0	None	No	0.01	Param.
Lithium (mg/L)	YGWC-29I	0.006554	0.005434	0.03	No 17	0.005994	0.0008934	0	None	No	0.01	Param.
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.014	No 17	0.006447	0.00438	58.82	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.014	No 17	0.005912	0.00447	52.94	None	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28S	0.01	0.00075	0.014	No 17	0.008356	0.003661	82.35	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.0031	0.0017	0.05	No 15	0.003073	0.002834	13.33	None	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0014	0.05	No 15	0.00762	0.004093	73.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No 15	0.009413	0.002272	93.33	None	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No 15	0.0094	0.002324	93.33	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-26S	0.001	0.000057	0.002	No 13	0.0008548	0.0003545	84.62	None	No	0.01	NP (NDs)
Thallium (mg/L)	YGWC-27S	0.001	0.0001	0.002	No 13	0.0005869	0.0004644	53.85	None	No	0.01	NP (NDs)



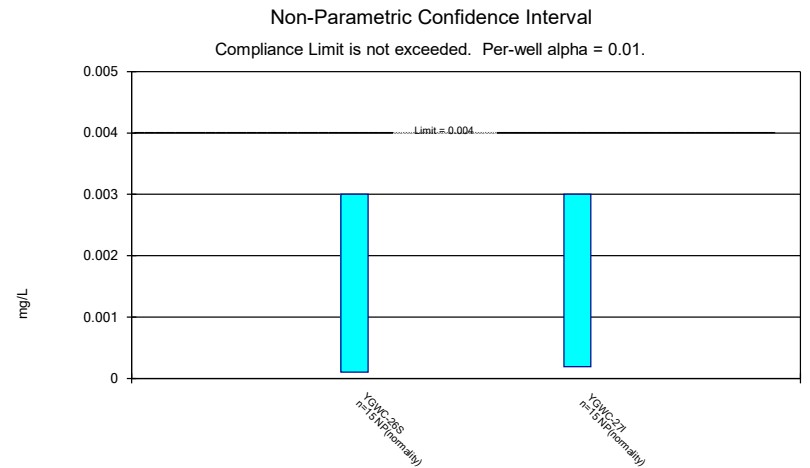
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Arsenic Analysis Run 11/25/2020 1:22 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



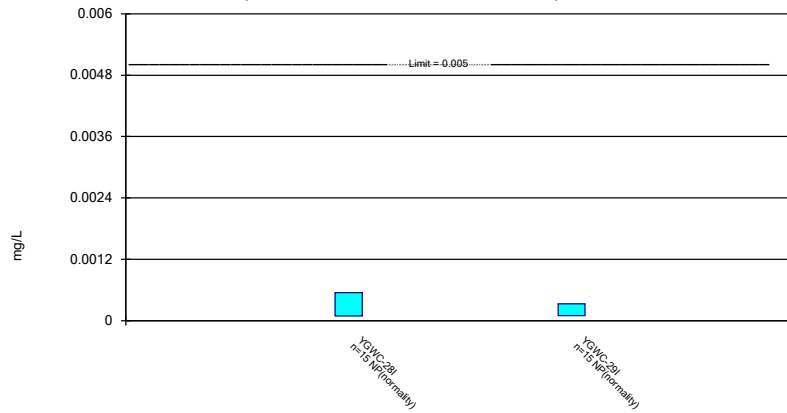
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2



Constituent: Beryllium Analysis Run 11/25/2020 1:22 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

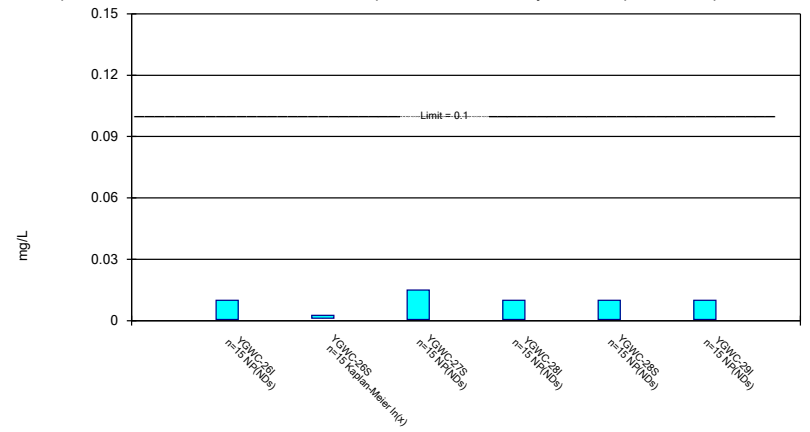
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Constituent: Cadmium Analysis Run 11/25/2020 1:22 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

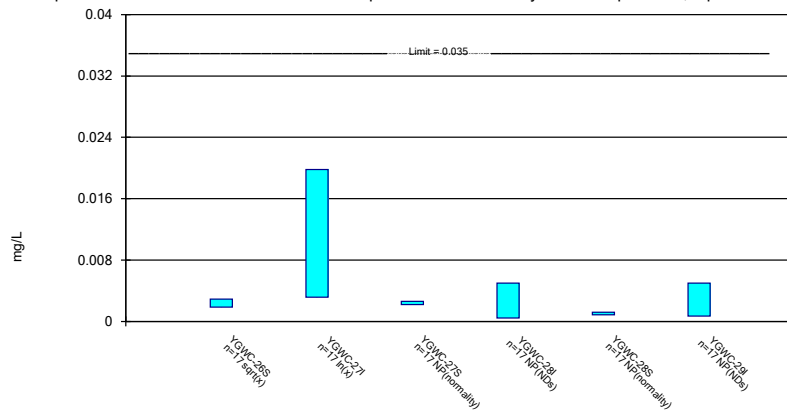
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Constituent: Chromium Analysis Run 11/25/2020 1:22 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

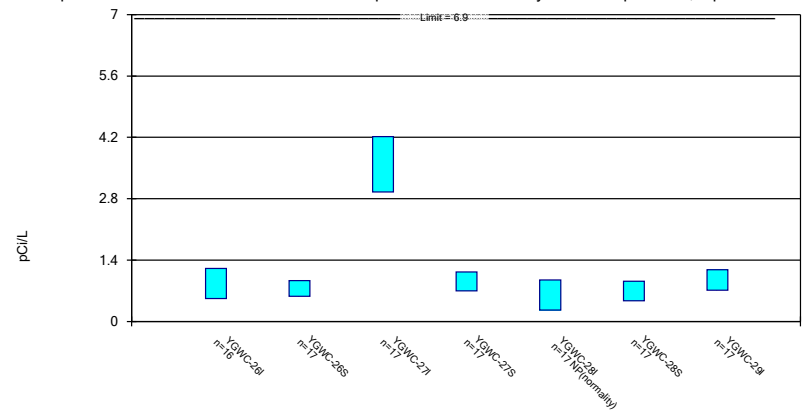
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Constituent: Cobalt Analysis Run 11/25/2020 1:22 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

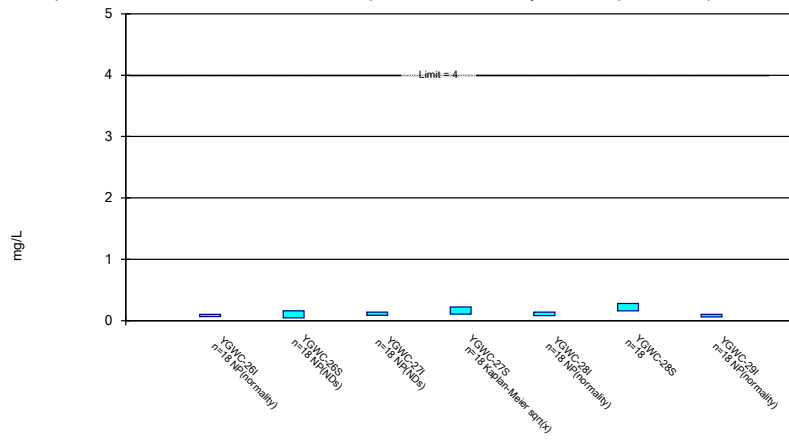
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Constituent: Combined Radium 226 + 228 Analysis Run 11/25/2020 1:22 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

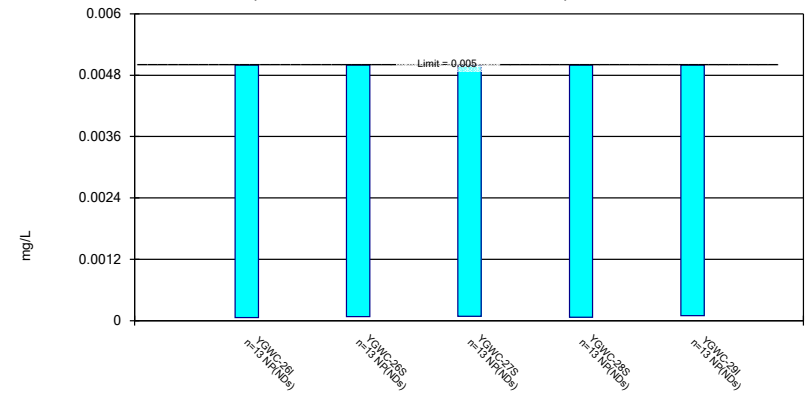
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Constituent: Fluoride Analysis Run 11/25/2020 1:22 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

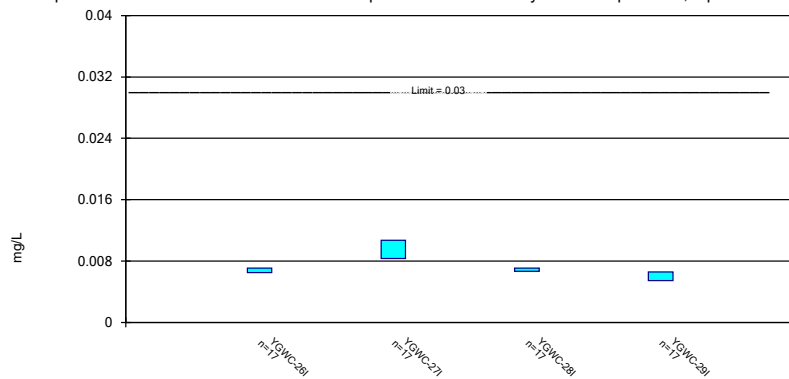
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Constituent: Lead Analysis Run 11/25/2020 1:22 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

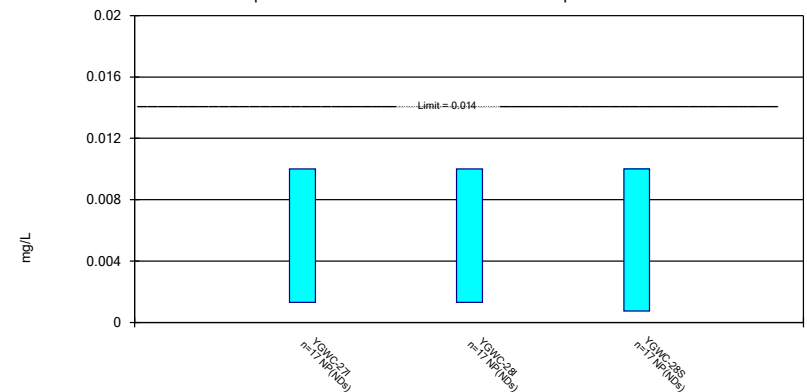
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Constituent: Lithium Analysis Run 11/25/2020 1:22 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

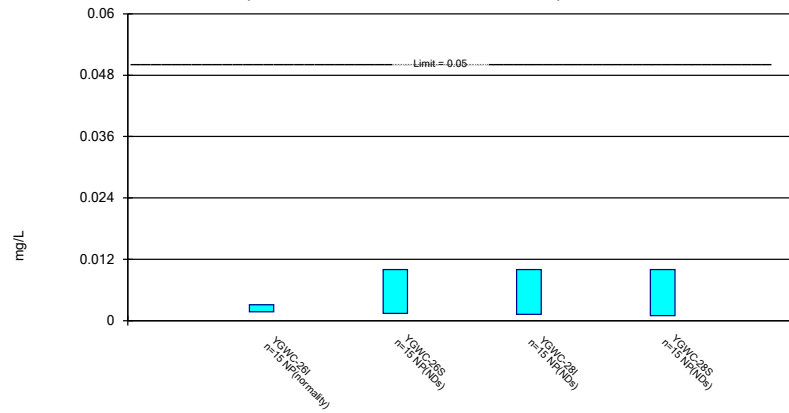
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Constituent: Molybdenum Analysis Run 11/25/2020 1:22 PM View: Appendix IV
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

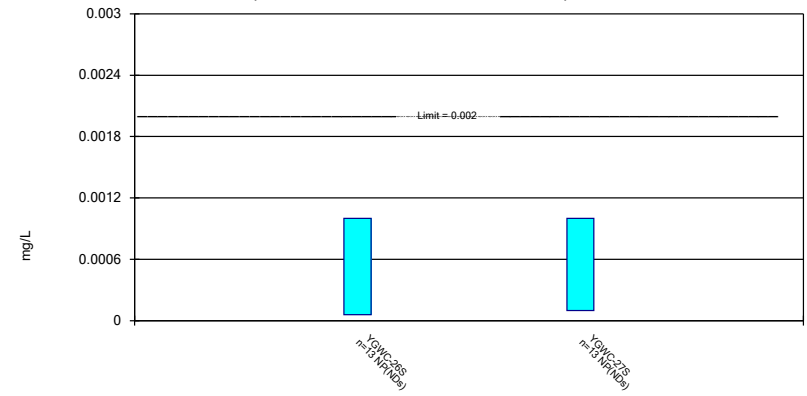
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Constituent: Selenium Analysis Run 11/25/2020 1:22 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Thallium Analysis Run 11/25/2020 1:22 PM View: Appendix IV
Plant Yates Client: Southern Company Data: Yates Ash Pond 2