

**Georgia Power Company
Plant Yates – Ash Pond 2**

Newnan, Georgia
Coweta County

**2019 ANNUAL
GROUNDWATER MONITORING AND
CORRECTIVE ACTION REPORT**



**ATLANTIC COAST
CONSULTING, INC.**

CERTIFICATION STATEMENT

This *2019 Annual Groundwater Monitoring & Corrective Action Report*, Georgia Power Company - Plant Yates Ash Pond 2 has been prepared in compliance with the United States Environmental Protection Agency coal combustion residual rule [40 Code of Federal Regulations (CFR) 257 Subpart D] and the Georgia Environmental Protection Division Rules for Solid Waste Management 391-3-4-.10 by a qualified groundwater scientist or engineer with:

ATLANTIC COAST CONSULTING, INC.

Evan B. Perry, P.E.
Project Manager
Date: January 31, 2020



I hereby certify that this *2019 Annual Groundwater Monitoring & Corrective Action Report*, Georgia Power Company Plant Yates Ash Pond 2 (AP-2) located at 708 Dyer Road, Newnan, Georgia, has been prepared to meet the requirements of 40 CFR §257.90(e).

Richard T. Deason, P.E.
CEO
Date: January 31, 2020





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1.0 INTRODUCTION

In accordance with the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) 257 Subpart D and the Georgia Environmental Protection Division (GA EPD) Rules of Solid Waste Management 391-3-4-.10, Atlantic Coast Consulting, Inc. (ACC) has prepared this Semiannual Groundwater Monitoring Report to document groundwater monitoring activities at Georgia Power Company's (GPC's) Plant Yates AP-2 (Site). To specify groundwater monitoring requirements, GA EPD rule 391-3-4-.10(6)(a) incorporates by reference the United States Environmental Protection Agency (US EPA) Coal Combustion Residuals (CCR) Rule 40 Code of Federal Regulations (CFR) § 257 Subpart D. For ease of reference, the US EPA CCR rules are cited within this report.

Groundwater monitoring and reporting for CCR units is performed in accordance with the monitoring requirements § 257.90 through 257.91 and § 257.93 through 257.94 of the Federal CCR rule and the Georgia EPD rule 391-3-4-.10(6)(a)-(c).

A permit application to comply with EPD Rules was submitted in November 2018 and is currently under review. Semiannual monitoring for the CCR unit is performed in accordance with the monitoring requirements 40 CFR § 257.90 through 257.95 of the Federal CCR rule, and the EPD Rules for Solid Waste Management 391-3-4-.10(6)(a).

This report documents the monitoring activities completed for the groundwater monitoring program through the 2019 calendar year in accordance with § 257.90(e).

1.1 Site Description and Background

Plant Yates is located at 708 Dyer Road, on the east bank of the Chattahoochee River in Coweta County, Georgia near the Coweta and Carroll County line, 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, Site Location Map, depicts the site location relative to the surrounding area.

1.2 Regional Geology and Hydrogeologic Setting

Plant Yates is located in the Inner Piedmont Physiographic Province of western Georgia, immediately southeast of the regional zone of deformation referred to as the Brevard Zone. Rock units at Plant Yates are primarily interlayered gneiss and schists. The rocks in the area have been subjected to several episodes of metamorphism and intrusion by igneous bodies. Extensive jointing occurs in the area. Surface expressions of the joints are observed on topographic maps and aerial photos of the Plant Yates area.

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 20-40 feet below ground surface, was formed in-place by the physical and chemical weathering of the underlying metamorphic rocks. There is typically a zone of variable thickness (approximately 5-20 feet) of transitionally weathered rock between the saprolite and competent bedrock. Localized alluvial soils consisting of generally coarser material (silty-sand, clayey silt, and silty clay with well-rounded gravel and cobbles) than that 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 increasing 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.

In-situ slug tests were performed in saprolite and weathered bedrock at multiple locations on 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. This indicates a fairly uniform medium across the saprolite and weathered rock horizon. The values from the field test fall within the standard range of hydraulic conductivity values associated with a silty sand.

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 CCR Unit AP-2. The monitoring system is designed to monitor groundwater passing the waste boundary of the CCR Units within the uppermost aquifer. Figure 2, Well Location Map, shows the monitoring well locations. Wells were located to serve as upgradient and downgradient monitoring points based on groundwater flow direction (Table 1A, Monitoring Network Well Summary, and Table 1B, Non-Network Well Summary).

Wells suffixed with an “S” are installed in overburden (saprolitic soil), an “I” indicates partially weathered rock (transition zone), and “D” indicates upper bedrock. As typical of the Piedmont Physiographic Province, there is a high degree of connectivity between the overburden, partially weathered rock, fractured bedrock, and the materials comprise a single uppermost aquifer.

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 as a single interconnected aquifer system. The monitoring well network for the Site is provided on Figure 2, Well Location Map.

2.0 GROUNDWATER MONITORING ACTIVITIES

Pursuant to 40 CFR § 257.90(e), the following describes monitoring-related activities performed during the preceding year and discusses any change in status of the monitoring program. All groundwater sampling was performed in accordance with § 257.93. Samples were collected from each well in the certified monitoring system shown on Figure 2 in February, March, and September 2019.

2.1 Monitoring Well Installation and Maintenance

There were no changes to the groundwater monitoring system in 2019; the network remained the same as in the 2018 (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

Based on results of the *2017 Annual Groundwater and Corrective Action Monitoring Report*, GPC initiated an assessment monitoring program on January 15, 2018. A notice of assessment monitoring was placed in the operation record on May 15, 2018. During 2019 monitoring wells were sampled for Appendix III/IV parameters in February as the annual initial monitoring event. Monitoring wells were sampled for Appendix III and detected Appendix IV parameters in March and September 2019 as the semiannual assessment monitoring events. Samples were collected from the monitoring network shown on Figure 2. A summary of groundwater sampling events completed in 2019 is provided in Table 2. Results of sampling activities conducted during 2019 are presented in Appendix A, Laboratory Analytical and Field Sampling Reports.

3.0 SAMPLE METHODOLOGY AND ANALYSIS

The following sections describe the methods used to conduct groundwater monitoring at the Site.

3.1 Groundwater Flow Direction, Gradient, and Velocity

Prior to each sampling event, groundwater levels were measured and recorded to the nearest 0.01 foot within a 24-hour period from the certified well network and piezometers at the Site. Groundwater levels recorded during the monitoring events are summarized in Tables 3A, 3B, and 3C Summary of Groundwater Elevations – February 2019, March 2019, and September 2019, respectively. Groundwater levels and top of casing elevations were used to calculate groundwater elevations and develop potentiometric surface elevation contour maps provided in Figure 3, March 2019 Water Table Contour Map and Figure 4, September 2019 Water Table Contour Map. The general direction of groundwater flow across the site is towards the west. The groundwater flow patterns observed during the 2019 monitoring events are consistent with historical patterns.

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

Specifically:

Equation

$$v = \frac{K(dh/dl)}{P_e} \quad \text{where:} \quad \begin{array}{l} v = \text{ground water velocity} \\ K = \text{hydraulic conductivity} \\ dh/dl = \text{hydraulic gradient} \\ P_e = \text{effective porosity} \end{array}$$

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; US EPA, 1989; Freeze and Cherry, 1979). Groundwater flow velocities have been calculated and are tabulated on Tables 4A and 4B, Groundwater Flow Velocity Calculations – March and September 2019, respectively. The calculated flow velocity ranged between 0.006 to 0.24 feet per day or 2.3 to 87 feet per year for the March event. The calculated flow velocity ranged between 0.005 to 0.18 feet per day or 1.7 to 65 feet per year for the September event.

3.2 Groundwater Sampling

Groundwater samples were collected using low-flow sampling procedures in accordance with 40 CFR § 257.93(a). Purging and sampling was performed using a dedicated bladder pump in each well. All non-disposable equipment was decontaminated before use and between well locations.

Monitoring wells were purged and sampled using low-flow sampling procedures. A SmarTroll (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 Hach 2100Q portable turbidimeter. Groundwater samples were collected when the following stabilization criteria were met:

- ± 0.1 standard units for pH
- $\pm 10\%$ for specific conductance
- $\pm 10\%$ for DO where DO > 0.5 mg/L. No criterion applies if DO < 0.5 mg/L.
- Turbidity measurements less than 10 nephelometric turbidity units (NTU)

Once stabilization was achieved, samples were collected directly into appropriately preserved laboratory-supplied sample containers. Sample bottles were placed in ice-packed coolers and submitted to Pace Analytical Services, LLC (Pace) of Peachtree Corners, Georgia following chain-of-custody protocol. Stabilization logs for each well during each monitoring event are included in Appendix A.

3.3 Laboratory Analyses

Groundwater samples were collected during three groundwater monitoring events in 2019. Analytical methods used for groundwater sample analysis are listed on the analytical laboratory reports included in Appendix A. Semiannual monitoring samples were analyzed for Appendix III and IV parameters detected above the laboratory method detection limit (MDL) during the February 2019 event in accordance with 40 CFR § 257.95(b). Parameters not detected above the laboratory MDL included: antimony, lead, and thallium.

Analytical data collected in respective 2019 monitoring events (February, March, and September 2019) are summarized in Tables 5A, 5B, and 5C Summary of Groundwater Analytical Data – February 2019, March 2019, and September 2019, respectively.

Laboratory analyses were performed by Pace. Pace is accredited by the National Environmental Laboratory Accreditation Program (NELAP) and maintains a NELAP certification for all parameters analyzed for this project. In addition, Pace is certified to perform analysis by the State of Georgia. Laboratory reports and chain-of-custody records for the monitoring events are presented in Appendix A.

3.4 Quality Assurance and Quality Control

During each sampling event, quality assurance/quality control samples (QA/QC) are collected at a rate of one QA/QC sample per every 10 groundwater samples. Equipment blanks (where non-dedicated sampling equipment is used) and duplicate samples were collected during each sampling event. QA/QC sample data was evaluated during data validation and is included in Appendix A.

Groundwater quality data in this report was validated in accordance with US EPA guidance (US EPA, 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 digestions spikes, laboratory and field duplicate RPDs, field and equipment blanks, and reporting limits. Where appropriate, validation qualifiers and flags are applied to the data using US EPA procedures as guidance (US EPA, 2017). A summary of the data validation is included in Appendix A.

Values followed by a "J" flag indicate that the value is an estimated analyte concentration detected between the method detection limit (MDL) and the laboratory reporting limit (PQL). 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.

4.0 STATISTICAL ANALYSIS

Statistical analysis of Appendix III and IV groundwater monitoring data was performed on samples collected from the certified groundwater monitoring network pursuant to § 257.93 and according to the PE certified statistical method. The statistical method used at the site was developed by MacStat Consulting, Ltd., in accordance with 40 CFR § 257.93(f) using methodology presented in *Statistical Analysis of Groundwater Data at RCRA Facilities, Unified Guidance*, March 2009, US EPA 530/R-09-007 (US EPA, 2009). To develop the statistical method, analytical data collected during the background period were evaluated and used to develop statistical limits for each Appendix III parameter. Subsequent monitoring results were compared to the statistical limits to determine if concentrations were statistically different from background.

4.1 Statistical Methods

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

4.1.1 Appendix III Constituents

Statistical tests used to evaluate the groundwater monitoring data consist of interwell prediction limits combined with a 1-of-2 verification resample plan for each of the Appendix III parameters. Interwell prediction limits pool upgradient well data to establish a background limit for an individual constituent, and the most recent sample from each downgradient well is compared to the same limit for each parameter. If the most recent sample exceeds the background statistical limit, an initial statistically significant increase (SSI) is identified. A summary of the statistical methodology used at the Site for routine groundwater monitoring is provided in Table 6, Summary of Statistical Methods.

4.1.2 Assessment Monitoring Statistics

Parametric tolerance limits were used to calculate background limits from pooled upgradient well data for Appendix IV parameters with a target of 95% confidence and 95% coverage. 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 standard (GWPS) established under 40 CFR § 257.95(h) and GA EPD Rule 391-3-4-.10(6)(a).

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

- (1) The maximum contaminant level (MCL) established under § 141.62 and 141.66 of this title;
- (2) Where an MCL has not been established:
 - (i) Cobalt (0.006 mg/L);
 - (ii) Lead (0.015 mg/L)
 - (iii) Lithium (0.040 mg/L);
 - (iv) Molybdenum (0.100 mg/L).
- (3) Background levels for constituents where the background level is higher than the MCL or rule-identified GWPS.

US EPA 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 GA EPD Rules for Solid Waste Management 391-3-4-.10(6)(a); and 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), and used to evaluate the existence of a statistically significant level (SSL). Under the existing GA EPD rules, the GWPS is:

- (1) The MCL;
- (2) Where an MCL has not been established, the background concentration;
- (3) Background levels for constituents where the background level is higher than the MCL.

Following the above Federal and State rule requirements, GWPS have been established for statistical comparison of Appendix IV constituents. Table 7, Summary of Background Levels and Groundwater Protection Standards, summarizes the background limit established at each monitoring well and the GWPS established under State and Federal 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 the State and Federal rules. Only when the entire confidence interval is above a GWPS is the well/constituent pair considered to exceed the GWPS at an SSL.

4.2 Statistical Analysis Results

Analytical data from the 2019 semiannual monitoring events in March and September 2019 were statistically analyzed in accordance with the PE-certified statistical methods. Appendix III statistical analysis was performed to determine if constituents have returned to background levels. Appendix IV assessment monitoring parameters were evaluated to determine if

concentrations statistically exceeded the established GWPS. The statistical analysis and comparison to prediction limits are included as Appendix B, Statistical Analyses.

Based on review of the Appendix III statistical analyses presented in Appendix B, Appendix III constituents have not returned to background levels. Exceedances were noted and are presented on the prediction limit summary table included in Appendix B. Because the Site is in Assessment Monitoring, no resamples will be collected at this time; however, concentrations will continue to be monitored and will be evaluated during the next subsequent sample event.

4.2.1 First Semiannual Assessment Monitoring Event

Based on the confidence interval statistical results presented in Appendix B, no Appendix IV parameters exhibited an SSL where the 95% lower confidence limit (LCL) exceeded the respective GWPS.

4.2.2 Second Semiannual Assessment Monitoring Event

Based on the confidence interval statistical results presented in Appendix B, no Appendix IV parameters exhibited an SSL where the 95% LCL exceeded the respective GWPS.

5.0 MONITORING PROGRAM STATUS

In accordance with 40 CFR § 257.94(e), an assessment monitoring program has been implemented. No statistical exceedances of a GWPS were identified for Appendix IV parameters. The Site will remain in assessment monitoring due to SSLs for Appendix III parameters.

6.0 CONCLUSIONS AND FUTURE ACTIONS

Statistical evaluations of the groundwater monitoring data for the Site identified no statistical exceedances of a relevant GWPS by an Appendix IV groundwater monitoring parameter.

The next scheduled sampling event is planned for the first quarter of 2020.

7.0 REFERENCES

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EPRI, 2015 Technical Report, *Groundwater Monitoring Guidance for the Coal Combustion Residuals Rule*.

Freeze, R.A. and Cherry, J.A. 1979, *Groundwater*, Prentice-Hall, Englewood Cliffs, New Jersey, 604 pp.

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US EPA, 1989 *Risk Assessment Guidance for Superfund (RAGS), Vol. I: Human Health Evaluation Manual (Part A) (540-1-89-002)*.

US EPA. 2009. Statistical Analysis of Groundwater Monitoring Data at RCRA Facilities, Unified Guidance. Office of Resource Conservation and Recovery – Program Implementation and Information Division. March.

US EPA. 2011. *Data Validation Standard Operating Procedures*. Science and Ecosystem Support Division. Region IV. Athens, GA. September.

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TABLES

Table 1A
Monitoring Network Well Summary

Well ID	Installation Date (mm/dd/yyyy)	Bottom Depth (ft BTOC)	Bottom Elevation (ft MSL)	Depth to Top of Screen (ft MSL)	Top of Screen Elevation (ft MSL)	Hydraulic Location
YGWA-1I	05/20/2014	53.82	782.66	43.82	792.99	Upgradient
YGWA-1D	05/20/2014	128.60	708.53	78.60	758.86	Upgradient
YGWA-2I	05/20/2014	64.30	801.85	54.30	812.18	Upgradient
YGWA-3I	05/20/2014	59.10	737.23	49.10	747.56	Upgradient
YGWA-3D	05/20/2014	135.20	661.50	85.20	711.83	Upgradient
YGWA-14S	05/20/2014	35.55	713.42	25.55	723.75	Upgradient
YGWA-30I	09/23/2015	59.62	702.97	49.62	713.30	Upgradient
YGWC-26S	10/01/2015	40.25	675.95	30.25	686.28	Downgradient
YGWC-26I	09/30/2015	69.90	646.01	59.90	656.34	Downgradient
YGWC-27S	10/07/2015	39.50	677.16	29.50	687.49	Downgradient
YGWC-27I	10/07/2015	80.15	636.08	70.15	646.41	Downgradient
YGWC-28S	10/05/2015	44.86	673.06	34.86	683.39	Downgradient
YGWC-28I	10/05/2015	70.07	647.82	60.07	658.15	Downgradient
YGWC-29I	10/01/2015	39.15	678.09	29.15	688.42	Downgradient

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Northings and Eastings are GA State Plane West (NAD83).

Table 1B
Non-Network Well Summary

Well ID	Installation Date (mm/dd/yyyy)	Bottom Depth (ft BTOC)	Bottom Elevation (ft MSL)	Depth to Top of Screen (ft MSL)	Top of Screen Elevation (ft MSL)	Purpose
PZ-1S	05/20/2014	36.74	800.00	26.74	810.33	Piezometer
PZ-3S	05/20/2014	42.87	753.34	32.87	763.67	Piezometer
PZ-13S	05/20/2014	43.52	764.37	33.52	774.70	Piezometer
PZ-13I	05/20/2014	60.80	746.92	50.80	757.25	Piezometer
PZ-14I	05/20/2014	53.26	695.85	43.26	706.18	Piezometer
PZ-25S	09/02/2015	56.80	709.70	46.80	720.03	Piezometer
PZ-25I	09/03/2015	84.20	682.05	74.20	692.38	Piezometer
PZ-31S	09/24/2015	34.60	704.19	24.60	714.52	Piezometer

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Northings and Eastings are GA State Plane West (NAD83).

Table 2
2019 Groundwater Sampling Event Summary

Well	Hydraulic Location	Feb. 26-27, 2019	Mar. 28 - Apr. 2, 2019	Sept. 24 - 26, 2019
		Purpose of Sampling Event	Assessment	First 2019 Semiannual
YGWA-1I	Upgradient	Scan	A-01	A-02
YGWA-1D	Upgradient	Scan	A-01	A-02
YGWA-2I	Upgradient	Scan	A-01	A-02
YGWA-3I	Upgradient	Scan	A-01	A-02
YGWA-3D	Upgradient	Scan	A-01	A-02
YGWA-14S	Downgradient	Scan	A-01	A-02
YGWA-30I	Downgradient	Scan	A-01	A-02
YGWC-26S	Downgradient	Scan	A-01	A-02
YGWC-26I	Downgradient	Scan	A-01	A-02
YGWC-27S	Downgradient	Scan	A-01	A-02
YGWC-27I	Downgradient	Scan	A-01	A-02
YGWC-28S	Downgradient	Scan	A-01	A-02
YGWC-28I	Downgradient	Scan	A-01	A-02
YGWC-29I	Downgradient	Scan	A-01	A-02

Notes:

1. Scan = All Appendix IV
2. A-XX = Assessment Event Number (Appendix III and Detected Appendix IV)

Table 3A
Summary of Groundwater Elevations
February 2019

Well ID	TOC Elevation (ft MSL)	Depth-to- Water (ft BTOC)	Groundwater Elevation (ft MSL)
YGWA-1I	836.48	33.73	802.75
YGWA-1D	837.13	45.83	791.30
YGWA-2I	866.15	42.26	823.89
YGWA-3I	796.33	52.70	743.63
YGWA-3D	796.70	30.90	765.80
YGWA-14S	748.77	13.63	735.14
YGWA-30I	762.59	35.83	726.76
YGWC-26S	716.20	17.11	699.09
YGWC-26I	715.91	21.72	694.19
YGWC-27S	716.66	23.74	692.92
YGWC-27I	716.23	24.18	692.05
YGWC-28S	717.92	20.75	697.17
YGWC-28I	717.89	20.72	697.17
YGWC-29I	717.24	24.18	693.06
PZ-1S	836.74	29.34	807.40
PZ-3S	796.21	33.56	762.65
PZ-13S	807.89	33.27	774.62
PZ-13I	807.72	36.47	771.25
PZ-14I	749.11	15.42	733.69
PZ-25S	766.50	34.63	731.87
PZ-25I	766.25	35.90	730.35
PZ-31S	738.79	13.89	724.90

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Depths to water measured February 25-26, 2019.

Table 3B
Summary of Groundwater Elevations
March 2019

Well ID	TOC Elevation (ft MSL)	Depth-to- Water (ft BTOC)	Groundwater Elevation (ft MSL)
YGWA-1I	836.48	32.65	803.83
YGWA-1D	837.13	45.08	792.05
YGWA-2I	866.15	41.50	824.65
YGWA-3I	796.33	52.28	744.05
YGWA-3D	796.70	28.63	768.07
YGWA-14S	748.77	13.39	735.38
YGWA-30I	762.59	35.68	726.91
YGWC-26S	716.20	18.39	697.81
YGWC-26I	715.91	22.39	693.52
YGWC-27S	716.66	25.44	691.22
YGWC-27I	716.23	25.98	690.25
YGWC-28S	717.92	21.64	696.28
YGWC-28I	717.89	21.94	695.95
YGWC-29I	717.24	25.28	691.96
PZ-1S	836.74	28.63	808.11
PZ-3S	796.21	32.52	763.69
PZ-13S	807.89	32.15	775.74
PZ-13I	807.72	35.89	771.83
PZ-14I	749.11	15.03	734.08
PZ-25S	766.50	35.04	731.46
PZ-25I	766.25	36.48	729.77
PZ-31S	738.79	14.16	724.63

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Depths to water measured March 25-26, 2019.

Table 3C
Summary of Groundwater Elevations
September 2019

Well ID	TOC Elevation (ft MSL)	Depth-to- Water (ft BTOC)	Groundwater Elevation (ft MSL)
YGWA-1I	836.48	37.28	799.20
YGWA-1D	837.13	49.15	787.98
YGWA-2I	866.15	44.64	821.51
YGWA-3I	796.33	54.69	741.64
YGWA-3D	796.70	29.91	766.79
YGWA-14S	748.77	18.56	730.21
YGWA-30I	762.59	38.37	724.22
YGWC-26S	716.20	22.74	693.46
YGWC-26I	715.91	25.36	690.55
YGWC-27S	716.66	28.45	688.21
YGWC-27I	716.23	29.02	687.21
YGWC-28S	717.92	24.21	693.71
YGWC-28I	717.89	24.73	693.16
YGWC-29I	717.24	28.21	689.03
PZ-1S	836.74	33.02	803.78
PZ-3S	796.21	35.23	760.98
PZ-13S	807.89	35.64	772.25
PZ-13I	807.72	39.70	768.02
PZ-14I	749.11	19.78	729.33
PZ-25S	766.50	36.61	729.89
PZ-25I	766.25	37.98	728.27
PZ-31S	738.79	16.02	722.77

Notes:

1. ft BTOC indicates feet below top of casing.
2. ft MSL indicates feet mean sea level.
3. Depths to water measured September 23-24, 2019.

Table 4A
GROUNDWATER FLOW VELOCITY CALCULATIONS
March 2019

Equation

$$v = \frac{K (dh/dl)}{P_e} \quad \text{where: } v = \text{ground water velocity}$$

K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

Value	Source
K _{max} = 3.7E-03 cm/sec 10 ft/day	See note 1.
K _{min} = 9.7E-05 cm/sec 0.28 ft/day	
i ₁ = 0.006 unitless i ₂ = 0.003 unitless i _{avg} = 0.005 unitless	Hydraulic gradient from YGWA-20S to YGWC-33S YGWC-33S to YGWC-36 Average
P _e = 0.20 unitless	See note 2.

Minimum Flow Velocity

$$v_{\min} = \frac{(0.28)(0.005)}{0.20}$$

$$v_{\min} = 0.006 \text{ ft/day, or } 2.3 \text{ ft/year}$$

Maximum Flow Velocity

$$v_{\max} = \frac{(10)(0.005)}{0.20}$$

$$v_{\max} = 0.24 \text{ ft/day, or } 87 \text{ ft/year}$$

Notes

- (1) Slug tests performed by Atlantic Coast Consulting, Inc. (2017)
- (2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

Table 4B
GROUNDWATER FLOW VELOCITY CALCULATIONS
September 2019

Equation

$$v = \frac{K (dh/dl)}{P_e}$$

where: v = ground water velocity
K = hydraulic conductivity
dh/dl = hydraulic gradient
P_e = effective porosity

Values Used in Calculation

Value	Source
K _{max} = 3.7E-03 cm/sec 10 ft/day	See note 1.
K _{min} = 9.7E-05 cm/sec 0.28 ft/day	
i ₁ = 0.006 unitless i ₂ = 0.001 unitless i _{avg} = 0.003 unitless	Hydraulic gradient from YGWA-20S to YGWC-33S YGWC-33S to YGWC-36 Average
P _e = 0.20 unitless	See note 2.

Minimum Flow Velocity

$$v_{min} = \frac{(0.28)(0.003)}{0.20}$$

$$v_{min} = 0.005 \text{ ft/day, or } 1.7 \text{ ft/year}$$

Maximum Flow Velocity

$$v_{max} = \frac{(10)(0.003)}{0.20}$$

$$v_{max} = 0.18 \text{ ft/day, or } 65 \text{ ft/year}$$

Notes

(1) Slug tests performed by Atlantic Coast Consulting, Inc. (2017)

(2) Default value for silty sands from Interim Final RCRA Investigation (EPA, 1989)

Table 5A
Summary of Groundwater Analytical Data
February 2019

Substance	MCL/ (SMCL)	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-14S	YGWA-30I	YGWC-26S	
		2/27/2019	2/27/2019	2/27/2019	2/27/2019	2/27/2019	2/26/2019	2/26/2019	2/27/2019	
Appendix IV	Antimony	0.006	ND	ND	ND	ND	ND	ND	ND	
	Arsenic	0.01	ND	ND (0.0015 J)	ND (0.0010 J)	ND	ND	ND	ND	
	Barium	2	ND (0.0080 J)	ND (0.0074 J)	ND (0.0035 J)	ND (0.0034 J)	ND (0.0059 J)	ND (0.0067 J)	ND (0.0070 J)	0.027
	Beryllium	0.004	ND	ND	ND	ND	ND	ND (0.00016 J)	ND (0.000072 J)	ND (0.00018 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND	ND	ND	ND	ND	ND	ND	ND (0.0055 J)
	Cobalt	N/R	ND (0.00064 J)	ND	ND	ND	ND	ND	0.021	ND (0.0017 J)
	Fluoride	4	ND	ND (0.052 J)	ND (0.12 J)	ND (0.13 J)	0.53	ND	ND	ND
	Lead	0.015	ND	ND	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND (0.0023 J)	ND (0.0093 J)	ND (0.0011 J)	ND (0.014 J)	ND (0.021 J)	ND	ND (0.0011 J)	ND
	Mercury	0.002	ND (0.000054 J)	ND (0.000051 J)	ND	ND (0.000061 J)	ND (0.000062 J)	ND (0.000061 J)	ND (0.000068 J)	ND (0.000049 J)
	Molybdenum	N/R	ND (0.0078 J)	ND (0.0087 J)	ND (0.0041 J)	ND (0.0027 J)	0.011	ND	ND	ND
	Radium	5	0.637 U	1.21 U	0.635 U	3.67	3.79	0.202 U	0.524 U	1.27
	Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates 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.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5A
Summary of Groundwater Analytical Data
February 2019

Substance	MCL/ (SMCL)	YGWC-26I	YGWC-27S	YGWC-27I	YGWC-28S	YGWC-28I	YGWC-29I	
		2/27/2019	2/27/2019	2/27/2019	2/27/2019	2/27/2019	2/27/2019	
Appendix IV	Antimony	0.006	ND	ND	ND	ND	ND	
	Arsenic	0.01	ND	ND	ND (0.00069 J)	ND	ND	
	Barium	2	0.065	0.096	0.066	0.21	0.086	0.067
	Beryllium	0.004	ND	ND	ND (0.00022 J)	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND (0.00014 J)	ND (0.00026 J)
	Chromium	0.1	ND (0.0049 J)	0.015	ND	ND	ND	ND
	Cobalt	N/R	ND	ND (0.0024 J)	0.035	ND (0.00093 J)	ND	ND
	Fluoride	4	ND	ND (0.14 J)	ND	ND (0.22 J)	ND (0.14 J)	ND (0.15 J)
	Lead	0.015	ND	ND	ND	ND	ND	ND
	Lithium	N/R	ND (0.0069 J)	ND	ND (0.0096 J)	ND	ND (0.0063 J)	ND (0.0053 J)
	Mercury	0.002	ND (0.000051 J)	ND (0.000049 J)	ND (0.000054 J)	ND (0.000052 J)	ND (0.000048 J)	ND (0.000047 J)
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND
	Radium	5	0.614 U	1.19	4.69	0.543 U	0.947 U	0.902 U
	Selenium	0.05	ND (0.0020 J)	ND	ND	ND	ND	ND
Thallium	0.002	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value.
Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates 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.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5B
Summary of Groundwater Analytical Data
March 2019

Substance	MCL/ (SMCL)	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-14S	YGWA-30I	YGWC-26S	
		3/28/2019	3/28/2019	3/29/2019	4/1/2019	4/1/2019	3/29/2019	4/1/2019	4/2/2019	
Appendix III	Boron	N/R	ND	ND (0.0050 J)	ND (0.0065 J)	ND	ND	ND (0.014 J)	ND	0.63
	Calcium	N/R	2.2	ND (13.3 J)	ND (23.5 J)	ND (20.4 J)	30.1	1.1	1.3	ND (11.9 J)
	Chloride	(250)	1.5	1.4	1.2	1.1	1.2	4.2	1.7	13.5
	Fluoride	4	ND	ND (0.036 J)	ND (0.13 J)	ND (0.10 J)	0.45	ND	ND	ND
	Sulfate	(250)	4.3	8.0	9.0	8.5	7.2	7.3	ND (0.96 J)	94.5
	TDS	(500)	87.0	87.0	150	ND (19.0 J)	149	63.0	54.0	224
Appendix IV	Arsenic	0.01	ND	ND (0.00072 J)	ND (0.00063 J)	ND	ND	ND	ND	ND
	Barium	2	ND (0.0082 J)	ND (0.0082 J)	ND (0.0039 J)	ND (0.0030 J)	ND (0.0064 J)	ND (0.0066 J)	ND (0.0072 J)	0.027
	Beryllium	0.004	ND	ND	ND	ND	ND	ND (0.00017 J)	ND	ND (0.00015 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.0021 J)	ND	ND	ND	ND	ND	ND	ND (0.0030 J)
	Cobalt	N/R	ND (0.00091 J)	ND	ND	ND	ND	ND	0.022	ND (0.0022 J)
	Lithium	N/R	ND (0.0022 J)	ND (0.013 J)	ND (0.0016 J)	ND (0.013 J)	ND (0.021 J)	ND	ND (0.0010 J)	ND
	Mercury	0.002	ND	ND (0.000040 J)	ND	ND (0.000084 J)	ND (0.000096 J)	ND	ND (0.000082 J)	ND (0.000066 J)
	Molybdenum	N/R	ND (0.0082 J)	ND (0.0092 J)	ND (0.0041 J)	ND (0.0021 J)	0.012	ND	ND	ND
	Radium	5	0.125 U	1.13 U	0.224 U	2.28	4.33	0.000 U	1.02 U	0.708 U
Selenium	0.05	ND	ND	ND	ND	ND	ND (0.0019 J)	ND	ND	

Notes:

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2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates 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.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5B
Summary of Groundwater Analytical Data
March 2019

Substance	MCL/ (SMCL)	YGWC-26I	YGWC-27S	YGWC-27I	YGWC-28S	YGWC-28I	YGWC-29I	
		4/2/2019	4/1/2019	4/1/2019	4/2/2019	4/1/2019	4/1/2019	
Appendix III	Boron	N/R	0.90	1.4	2.4	2.9	2.7	0.85
	Calcium	N/R	ND (16.1 J)	38.0	27.4	25.7	33.8	ND (11.9 J)
	Chloride	(250)	17.9	19.7	14.2	19.5	17.2	13.1
	Fluoride	4	ND (0.071 J)	ND (0.088 J)	ND (0.034 J)	ND (0.14 J)	ND (0.078 J)	ND (0.059 J)
	Sulfate	(250)	77.6	18.3	4.1	2.4	8.2	30.4
	TDS	(500)	223	221	198	ND	238	147
Appendix IV	Arsenic	0.01	ND	ND	ND	ND	ND	ND
	Barium	2	0.065	0.099	0.066	0.20	0.088	0.063
	Beryllium	0.004	ND	ND	ND (0.00022 J)	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND (0.00043 J)	ND (0.00022 J)
	Chromium	0.1	ND	ND	ND	ND	ND	ND
	Cobalt	N/R	ND	ND (0.0023 J)	0.025	ND (0.0011 J)	ND	ND
	Lithium	N/R	ND (0.0064 J)	ND	ND (0.0082 J)	ND	ND (0.0065 J)	ND (0.0052 J)
	Mercury	0.002	ND (0.000051 J)	ND (0.000041 J)	ND (0.000045 J)	ND	ND	ND (0.000039 J)
	Molybdenum	N/R	ND	ND	ND	ND	ND	ND
	Radium	5	0.840 U	0.777 U	5.00	0.521 U	0.162 U	0.584 U
	Selenium	0.05	ND (0.0017 J)	ND	ND	ND	ND	ND

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates 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.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5C
Summary of Groundwater Analytical Data
September 2019

Substance	MCL/ (SMCL)	YGWA-1I	YGWA-1D	YGWA-2I	YGWA-3I	YGWA-3D	YGWA-14S	YGWA-30I	YGWC-26S	
		9/24/2019	9/24/2019	9/24/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	9/25/2019	
Appendix III	Boron	N/R	ND (0.0055 J)	ND (0.0064 J)	ND (0.0076 J)	ND	ND (0.0054 J)	ND (0.018 J)	ND	0.63
	Calcium	N/R	2.3	15.8	26.4	22.4	29.5	1.1	1.1	11.6
	Chloride	(250)	1.3	1.1	ND (0.95 J)	1.1	1.1	4.8	1.6	14.4
	Fluoride	4	ND	ND (0.063 J)	ND (0.081 J)	ND (0.10 J)	0.46	ND	ND	ND
	Sulfate	(250)	4.3	5.3	9.1	13.8	7.0	6.6	ND (0.81 J)	97.0
	TDS	(500)	54.0	124	146	159	157	64.0	51.0	190
Appendix IV	Arsenic	0.01	ND	ND (0.0014 J)	ND	ND	ND	ND	ND	ND
	Barium	2	ND (0.0086 J)	ND (0.0072 J)	ND (0.0038 J)	ND (0.0050 J)	ND (0.0059 J)	ND (0.0071 J)	ND (0.0066 J)	0.026
	Beryllium	0.004	ND	ND	ND	ND	ND	ND (0.00018 J)	ND	ND (0.00011 J)
	Cadmium	0.005	ND	ND	ND	ND	ND	ND	ND	ND
	Chromium	0.1	ND (0.0028 J)	ND (0.00072 J)	ND	ND (0.0019 J)	ND (0.0014 J)	ND	ND	ND (0.0012 J)
	Cobalt	N/R	ND (0.0013 J)	ND	ND	ND	ND	ND	0.016	0.0033
	Lithium	N/R	ND (0.0023 J)	ND (0.0046 J)	ND (0.0011 J)	ND (0.010 J)	ND (0.020 J)	ND	ND (0.0011 J)	ND
	Mercury	0.002	ND	ND	ND	ND	ND	ND	ND	ND
	Molybdenum	N/R	ND (0.0074 J)	ND (0.0072 J)	ND (0.0054 J)	ND (0.0087 J)	0.012	ND	ND	ND
	Radium	5	0.949 U	1.22 U	0.429 U	1.60	4.20	0.707 U	1.02 U	1.18 U
Selenium	0.05	ND	ND	ND	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
4. ND (Not Detected) indicates the substance was not detected above the laboratory method detection limit (MDL).
5. ND (value J) indicates the substance was detected at such low levels that the precision of the laboratory instrument could not produce a reliable value. Therefore, the value displayed (value J) is qualified by the laboratory as an estimated value.
6. N/R indicates a substance does not have an MCL or SMCL, but will be further evaluated statistically, as required by EPA's CCR rule.
7. TDS indicates total dissolved solids.
8. U indicates 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.
9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 5C
Summary of Groundwater Analytical Data
September 2019

Substance	MCL/ (SMCL)	YGWC-26I	YGWC-27S	YGWC-27I	YGWC-28S	YGWC-28I	YGWC-29I	
		9/25/2019	9/26/2019	9/26/2019	9/26/2019	9/26/2019	9/25/2019	
Appendix III	Boron	N/R	0.86	1.5	1.9	2.5	2.8	0.73
	Calcium	N/R	15.6	37.5	24.2	26.1	32.0	10.7
	Chloride	(250)	17.1	19.6	14.3	19.5	17.3	11.3
	Fluoride	4	ND (0.064 J)	ND (0.22 J)	ND (0.14 J)	ND (0.28 J)	ND (0.29 J)	ND (0.054 J)
	Sulfate	(250)	80.1	18.2	4.2	1.6	7.9	30.0
	TDS	(500)	225	225	198	239	241	162
Appendix IV	Arsenic	0.01	ND	ND	ND (0.00058 J)	ND (0.00057 J)	ND	ND
	Barium	2	0.063	0.099	0.065	0.18	0.087	0.061
	Beryllium	0.004	ND	ND	ND (0.00020 J)	ND	ND	ND
	Cadmium	0.005	ND	ND	ND	ND	ND	ND (0.00024 J)
	Chromium	0.1	ND (0.00048 J)	ND	ND	ND	ND (0.00044 J)	ND
	Cobalt	N/R	ND	ND (0.0021 J)	0.014	ND (0.00098 J)	ND	ND
	Lithium	N/R	ND (0.0073 J)	ND	ND (0.0075 J)	ND	ND (0.0064 J)	ND (0.0057 J)
	Mercury	0.002	ND	ND	ND	ND	ND	ND
	Molybdenum	N/R	ND	ND	ND (0.0013 J)	ND	ND (0.0013 J)	ND
	Radium	5	1.01 U	1.01 U	3.37	1.16	1.06 U	1.03 U
Selenium	0.05	ND (0.0019 J)	ND	ND	ND	ND	ND	

Notes:

1. MCL indicates Environmental Protection Agency (EPA) and Georgia Environmental Protection Division (EPD) maximum contaminant level.
2. (SMCL) indicates a secondary MCL that is established by EPA as a general guideline only (not enforced).
3. Results for substances are reported in milligrams per liter (mg/L). Radium results are reported in picocuries per liter (pCi/L).
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9. Appendix III = indicator parameters evaluated during Detection Monitoring; Appendix IV = parameters evaluated during Assessment Monitoring.

Table 6
Statistical Method Summary

Plant Yates AP-2 Statistical Method Summary		
Monitoring Well Network	Upgradient Wells	YGWA-1I, YGWA-1D, YGWA-2I, YGWA-3I, YGWA-3D, YGWA-14S, and YGWA-30I
	Downgradient Wells	YGWC-26S, YGWC-26I, YGWC-27I, YGWC-28S, YGWC-28I, and YGWC-29I
CCR Monitoring Parameters	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
Statistical Methodology	Data Screening Proposed Background	Evaluate outliers, trends, and seasonality when sufficient data are available
	Statistical Limits	Interwell statistical limits

Table 7
Summary of Background Levels and Groundwater Protection Standards

Constituent	Units	Site Background	Federal GWPS	State GWPS
Arsenic	mg/L	0.005	0.01	0.01
Barium	mg/L	0.012	2	2
Beryllium	mg/L	0.003	0.004	0.004
Cadmium	mg/L	0.001	0.005	0.005
Chromium	mg/L	0.01	0.1	0.1
Cobalt	mg/L	0.035	0.035	0.035
Fluoride	mg/L	0.68	4	4
Lithium	mg/L	0.025	0.040	0.025
Mercury	mg/L	0.0005	0.002	0.002
Molybdenum	mg/L	0.014	0.1	0.014
Radium	pCi/L	4.24	5	5
Selenium	mg/L	0.010	0.050	0.050

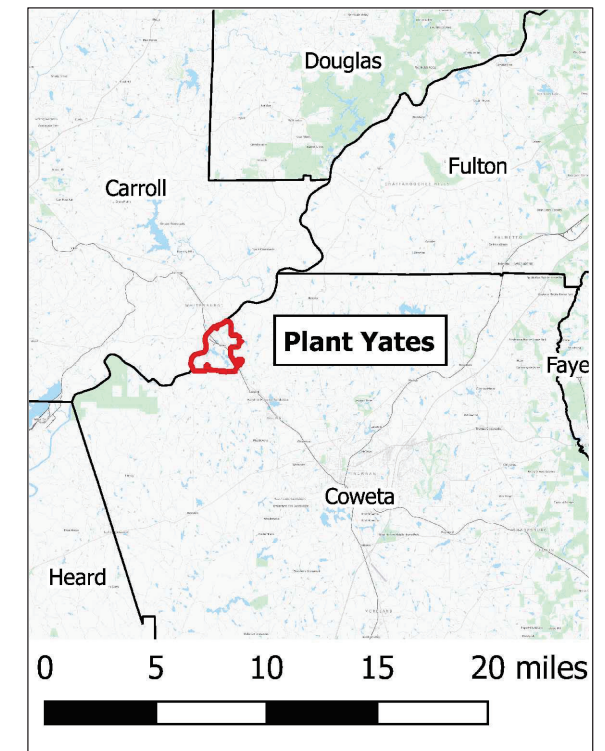
Notes:

1. Site Background = Parametric tolerance limits calculated from pooled upgradient well data.
2. Federal GWPS = Groundwater protection standard, per 257.95(h)(1-3).
3. State GWPS = Groundwater protection standard, per Georgia EPD Rule 391-3-4-.10(6)(a).
4. Units are milligrams per liter (mg/L), except for radium, which are picocuries per liter (pCi/L).

FIGURES



LEGEND	
EXISTING	DESCRIPTION
	APPROXIMATE PROPERTY BOUNDARY
	APPROXIMATE UNIT BOUNDARY



ACC
ATLANTIC COAST CONSULTING, INC.
 1150 Northmeadow Pkwy.
 Suite 100
 Roswell, GA 30076
 770.594.5998
 www.atlcc.net

PROJECT:
PLANT YATES

708 DYER ROAD
 NEWNAN, GEORGIA

REVISIONS

Drawn by: **MM** Checked by: **EP**

PROJECT NUMBER:
IO54-110
 January 2020

SITE LOCATION MAP
 FIGURE **1**

\\ATLANTA\Projects\Industrial\054 - Southern Company\110 - Groundwater Consulting Services 2018 - 2021\Plant Yates\2 - Semiannual AP-2 - September 2019 Pot Map.dwg 2019-11-24 EVAN PERRY

Summary of Groundwater Elevations
Plant Yates Landfill
Ash Pond 2
September 2019 Sampling Event

Monitoring Well ID	Total Depth (ft BTOC)	Top of Casing (ft MSL)	Depth to Water (ft BTOC)	Groundwater Elevation (ft MSL)
YGWA-1I	53.82	836.48	37.28	799.20
YGWA-1D	128.60	837.13	49.15	787.98
YGWA-2I	64.30	866.15	44.64	821.51
YGWA-3I	59.10	796.33	54.69	741.64
YGWA-3D	135.20	796.70	29.91	766.79
YGWA-14S	35.35	748.77	18.56	730.21
YGWA-30I	59.62	762.59	38.37	724.22
YGWC-26S	40.25	716.20	22.74	693.46
YGWC-26I	69.90	715.91	25.36	690.55
YGWC-27S	39.50	716.66	28.45	688.21
YGWC-27I	80.15	716.23	29.02	687.21
YGWC-28S	44.86	717.92	24.21	693.71
YGWC-28I	70.07	717.89	24.73	693.16
YGWC-29I	39.15	717.24	28.21	689.03
PZ-01S	36.05	836.74	33.02	803.72
PZ-03S	41.99	796.21	35.23	760.98
PZ-13S	42.68	807.89	35.64	772.25
PZ-13I	59.47	807.72	39.70	768.02
PZ-14I	52.22	749.11	19.78	729.33
PZ-25S	56.80	766.50	36.61	729.89
PZ-25I	84.90	766.25	37.98	728.27
PZ-31S	34.73	738.79	16.02	722.77

Notes: Depths to water measured within a 24-hour period on September 23-24, 2019.
 ft MSL = feet mean sea level
 ft BTOC = feet below top of casing

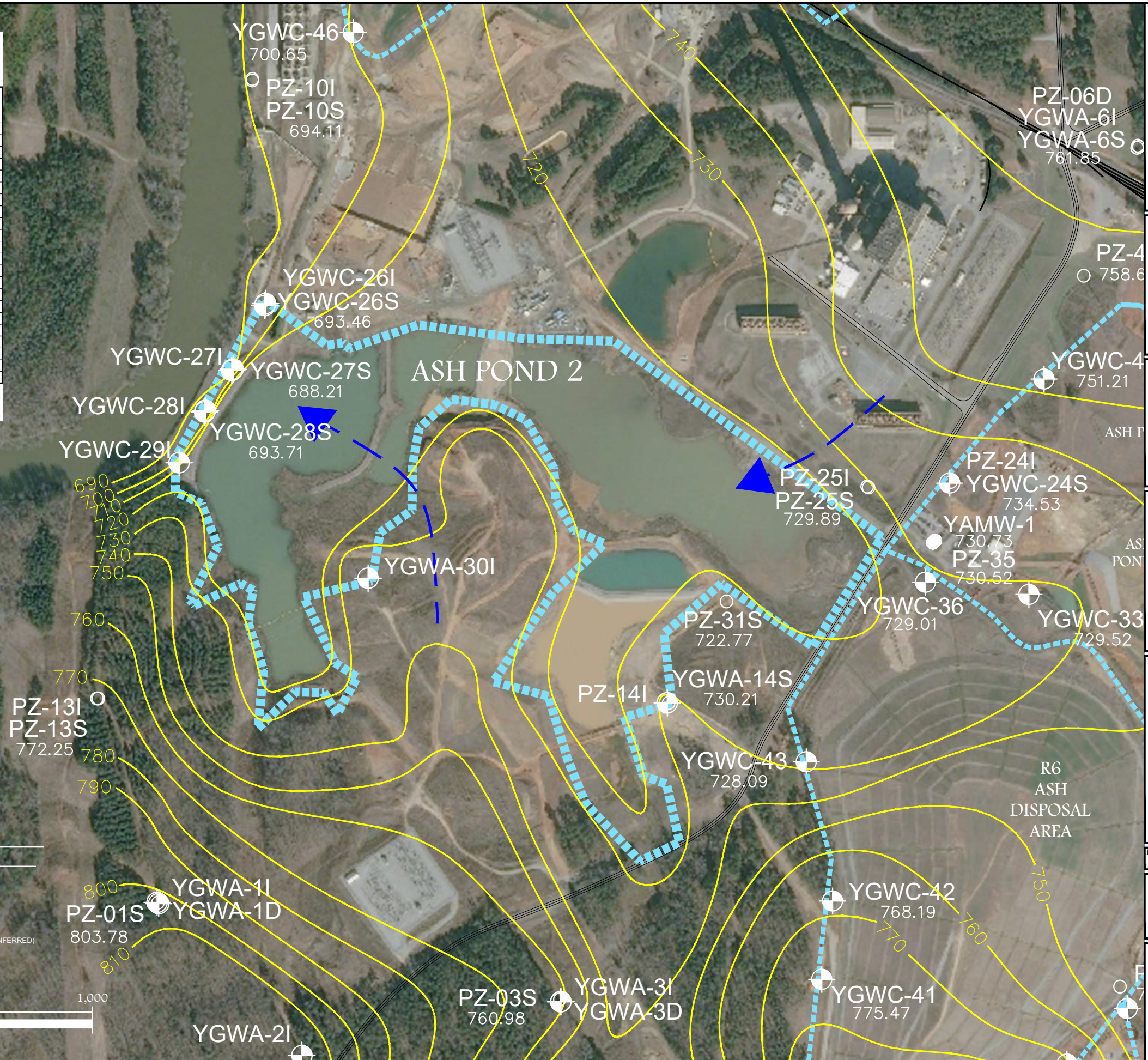


NOTE:
 1. WELLS WITH "D" & "I" SUFFIXES MONITOR DEEPER INTERVALS AND ARE NOT USED TO CONSTRUCT WATER TABLE CONTOURS.

LEGEND

EXISTING	DESCRIPTION
	RAILROAD
	ACCESS ROAD
	PERMITTED UNIT BOUNDARY
	WATER TABLE CONTOUR
	GROUNDWATER FLOW DIRECTION (INFERRED)
	GROUNDWATER MONITORING WELL CONTOUR ELEVATION
	PIEZOMETER CONTOUR ELEVATION

Scale: 1" = 500' (IN FEET)
 0 250 500 1,000



ATLANTIC COAST CONSULTING, INC.
 1150 Northmeadow Pkwy.
 Suite 100
 Roswell, GA 30076
 770.594.5998
 www.atlcc.net

PROJECT:
PLANT YATES

708 DYER ROAD
 NEWNAN, GEORGIA

REVISIONS

NO.	DATE	DESCRIPTION

Drawn by: MM Checked by: EP
 PROJECT NUMBER:
1054-110
 January 2020

SEPTEMBER 2019
WATER TABLE
CONTOUR MAP
 FIGURE 4

APPENDICES

APPENDIX A

LABORATORY ANALYTICAL AND FIELD SAMPLING REPORTS

March 08, 2019

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

RE: Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615503

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 28, 2019. 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,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Atlanta Certification IDs

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615503

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2615503001	YGWA-14S	Water	02/26/19 13:08	02/28/19 15:05
2615503002	YGWA-30I	Water	02/26/19 14:38	02/28/19 15:05
2615503003	YGWA-3I	Water	02/27/19 12:45	02/28/19 15:05
2615503004	YGWA-3D	Water	02/27/19 11:05	02/28/19 15:05
2615503005	YGWA-2I	Water	02/27/19 10:48	02/28/19 15:05
2615503006	YGWA-1I	Water	02/27/19 12:10	02/28/19 15:05
2615503007	YGWA-1D	Water	02/27/19 10:08	02/28/19 15:05
2615503008	YGWC-26S	Water	02/27/19 12:58	02/28/19 15:05
2615503009	YGWC-26I	Water	02/27/19 14:12	02/28/19 15:05
2615503010	YGWC-27S	Water	02/27/19 14:15	02/28/19 15:05
2615503011	YGWC-27I	Water	02/27/19 15:20	02/28/19 15:05
2615503012	YGWC-28S	Water	02/27/19 17:26	02/28/19 15:05
2615503013	YGWC-28I	Water	02/27/19 15:50	02/28/19 15:05
2615503014	YGWC-29I	Water	02/27/19 14:07	02/28/19 15:05
2615503015	EB-1-2-27-19	Water	02/27/19 12:20	02/28/19 15:05
2615503016	EB-2-2-27-19	Water	02/27/19 14:30	02/28/19 15:05
2615503017	DUP-1	Water	02/27/19 00:00	02/28/19 15:05
2615503018	DUP-2	Water	02/27/19 00:00	02/28/19 15:05
2615503019	FB-1-2-27-19	Water	02/27/19 12:50	02/28/19 15:05
2615503020	FB-2-2-27-19	Water	02/27/19 15:00	02/28/19 15:05

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2615503001	YGWA-14S	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503002	YGWA-30I	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503003	YGWA-3I	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503004	YGWA-3D	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503005	YGWA-2I	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503006	YGWA-1I	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503007	YGWA-1D	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503008	YGWC-26S	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503009	YGWC-26I	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503010	YGWC-27S	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503011	YGWC-27I	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503012	YGWC-28S	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503013	YGWC-28I	EPA 6020B	CSW	12

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Lab ID	Sample ID	Method	Analysts	Analytes Reported
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503014	YGWC-29I	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503015	EB-1-2-27-19	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503016	EB-2-2-27-19	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503017	DUP-1	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503018	DUP-2	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503019	FB-1-2-27-19	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1
2615503020	FB-2-2-27-19	EPA 6020B	CSW	12
		EPA 7470A	DRB	1
		EPA 300.0	MWB	1

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWA-14S		Lab ID: 2615503001		Collected: 02/26/19 13:08	Received: 02/28/19 15:05	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Antimony	ND	mg/L	0.0030	0.00078	1	03/05/19 11:25	03/06/19 13:52	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 13:52	7440-38-2		
Barium	0.0067J	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 13:52	7440-39-3		
Beryllium	0.00016J	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 13:52	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 13:52	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 13:52	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 13:52	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 13:52	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 13:52	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 13:52	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 13:52	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 13:52	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000061J	mg/L	0.00050	0.000036	1	03/04/19 10:46	03/05/19 13:02	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		03/05/19 00:57	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWA-30I		Lab ID: 2615503002		Collected: 02/26/19 14:38		Received: 02/28/19 15:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	03/05/19 11:25	03/06/19 14:15	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 14:15	7440-38-2	
Barium	0.0070J	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 14:15	7440-39-3	
Beryllium	0.000072J	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 14:15	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 14:15	7440-43-9	
Chromium	ND	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 14:15	7440-47-3	
Cobalt	0.021	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 14:15	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 14:15	7439-92-1	
Lithium	0.0011J	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 14:15	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 14:15	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 14:15	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 14:15	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000068J	mg/L	0.00050	0.000036	1	03/04/19 10:46	03/05/19 13:04	7439-97-6	B
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	ND	mg/L	0.30	0.029	1		03/05/19 01:18	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWA-3I		Lab ID: 2615503003		Collected: 02/27/19 12:45		Received: 02/28/19 15:05		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	0.00078	1	03/05/19 11:25	03/06/19 14:21	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 14:21	7440-38-2		
Barium	0.0034J	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 14:21	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 14:21	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 14:21	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 14:21	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 14:21	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 14:21	7439-92-1		
Lithium	0.014J	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 14:21	7439-93-2		
Molybdenum	0.0027J	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 14:21	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 14:21	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 14:21	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000061J	mg/L	0.00050	0.000036	1	03/04/19 10:46	03/05/19 13:06	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	0.13J	mg/L	0.30	0.029	1		03/05/19 03:01	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWA-3D		Lab ID: 2615503004		Collected: 02/27/19 11:05		Received: 02/28/19 15:05		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	0.00078	1	03/05/19 11:25	03/06/19 14:27	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 14:27	7440-38-2		
Barium	0.0059J	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 14:27	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 14:27	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 14:27	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 14:27	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 14:27	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 14:27	7439-92-1		
Lithium	0.021J	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 14:27	7439-93-2		
Molybdenum	0.011	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 14:27	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 14:27	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 14:27	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000062J	mg/L	0.00050	0.000036	1	03/04/19 10:46	03/05/19 13:09	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	0.53	mg/L	0.30	0.029	1		03/05/19 03:22	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWA-2I		Lab ID: 2615503005		Collected: 02/27/19 10:48		Received: 02/28/19 15:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	03/05/19 11:25	03/06/19 14:32	7440-36-0	
Arsenic	0.0010J	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 14:32	7440-38-2	
Barium	0.0035J	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 14:32	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 14:32	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 14:32	7440-43-9	
Chromium	ND	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 14:32	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 14:32	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 14:32	7439-92-1	
Lithium	0.0011J	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 14:32	7439-93-2	
Molybdenum	0.0041J	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 14:32	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 14:32	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 14:32	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	03/04/19 10:46	03/05/19 13:11	7439-97-6	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	0.12J	mg/L	0.30	0.029	1		03/05/19 03:42	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWA-1I		Lab ID: 2615503006		Collected: 02/27/19 12:10		Received: 02/28/19 15:05		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	0.00078	1	03/05/19 11:25	03/06/19 14:38	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 14:38	7440-38-2		
Barium	0.0080J	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 14:38	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 14:38	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 14:38	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 14:38	7440-47-3		
Cobalt	0.00064J	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 14:38	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 14:38	7439-92-1		
Lithium	0.0023J	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 14:38	7439-93-2		
Molybdenum	0.0078J	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 14:38	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 14:38	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 14:38	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000054J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:25	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		03/05/19 04:03	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWA-1D		Lab ID: 2615503007		Collected: 02/27/19 10:08		Received: 02/28/19 15:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	03/05/19 11:25	03/06/19 14:44	7440-36-0	
Arsenic	0.0015J	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 14:44	7440-38-2	
Barium	0.0074J	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 14:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 14:44	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 14:44	7440-43-9	
Chromium	ND	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 14:44	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 14:44	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 14:44	7439-92-1	
Lithium	0.0093J	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 14:44	7439-93-2	
Molybdenum	0.0087J	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 14:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 14:44	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 14:44	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000051J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:35	7439-97-6	B
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	0.052J	mg/L	0.30	0.029	1		03/05/19 04:24	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWC-26S		Lab ID: 2615503008		Collected: 02/27/19 12:58		Received: 02/28/19 15:05		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	0.00078	1	03/05/19 11:25	03/06/19 15:03	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 15:03	7440-38-2		
Barium	0.027	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 15:03	7440-39-3		
Beryllium	0.00018J	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 15:03	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 15:03	7440-43-9		
Chromium	0.0055J	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 15:03	7440-47-3		
Cobalt	0.0017J	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 15:03	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 15:03	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 15:03	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 15:03	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 15:03	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 15:03	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000049J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:37	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		03/05/19 04:45	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWC-26I		Lab ID: 2615503009		Collected: 02/27/19 14:12		Received: 02/28/19 15:05		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	0.00078	1	03/05/19 11:25	03/06/19 15:09	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 15:09	7440-38-2		
Barium	0.065	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 15:09	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 15:09	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 15:09	7440-43-9		
Chromium	0.0049J	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 15:09	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 15:09	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 15:09	7439-92-1		
Lithium	0.0069J	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 15:09	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 15:09	7439-98-7		
Selenium	0.0020J	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 15:09	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 15:09	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000051J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:40	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		03/05/19 05:06	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWC-27S		Lab ID: 2615503010		Collected: 02/27/19 14:15		Received: 02/28/19 15:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	03/05/19 11:25	03/06/19 15:14	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/05/19 11:25	03/06/19 15:14	7440-38-2	
Barium	0.096	mg/L	0.010	0.00078	1	03/05/19 11:25	03/06/19 15:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/05/19 11:25	03/06/19 15:14	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/05/19 11:25	03/06/19 15:14	7440-43-9	
Chromium	0.015	mg/L	0.010	0.0016	1	03/05/19 11:25	03/06/19 15:14	7440-47-3	
Cobalt	0.0024J	mg/L	0.010	0.00052	1	03/05/19 11:25	03/06/19 15:14	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	03/05/19 11:25	03/06/19 15:14	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	03/05/19 11:25	03/06/19 15:14	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	03/05/19 11:25	03/06/19 15:14	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/05/19 11:25	03/06/19 15:14	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/05/19 11:25	03/06/19 15:14	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000049J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:42	7439-97-6	B
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	0.14J	mg/L	0.30	0.029	1		03/05/19 05:27	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWC-271		Lab ID: 2615503011		Collected: 02/27/19 15:20		Received: 02/28/19 15:05		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	0.00078	1	03/06/19 11:40	03/06/19 18:44	7440-36-0		
Arsenic	0.00069J	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 18:44	7440-38-2		
Barium	0.066	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 18:44	7440-39-3		
Beryllium	0.00022J	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/06/19 18:44	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 18:44	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 18:44	7440-47-3		
Cobalt	0.035	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 18:44	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 18:44	7439-92-1		
Lithium	0.0096J	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 18:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 18:44	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 18:44	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 18:44	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000054J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:49	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	ND	mg/L	0.30	0.029	1		03/05/19 05:48	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWC-28S		Lab ID: 2615503012		Collected: 02/27/19 17:26		Received: 02/28/19 15:05		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	0.00078	1	03/06/19 11:40	03/06/19 18:50	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 18:50	7440-38-2		
Barium	0.21	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 18:50	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/06/19 18:50	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 18:50	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 18:50	7440-47-3		
Cobalt	0.00093J	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 18:50	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 18:50	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 18:50	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 18:50	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 18:50	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 18:50	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000052J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:52	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	0.22J	mg/L	0.30	0.029	1		03/05/19 04:45	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615503

Sample: YGWC-28I		Lab ID: 2615503013		Collected: 02/27/19 15:50		Received: 02/28/19 15:05		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	0.00078	1	03/06/19 11:40	03/06/19 18:56	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 18:56	7440-38-2		
Barium	0.086	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 18:56	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/06/19 18:56	7440-41-7		
Cadmium	0.00014J	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 18:56	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 18:56	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 18:56	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 18:56	7439-92-1		
Lithium	0.0063J	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 18:56	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 18:56	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 18:56	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 18:56	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000048J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:54	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	0.14J	mg/L	0.30	0.029	1		03/05/19 05:54	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: YGWC-29I		Lab ID: 2615503014		Collected: 02/27/19 14:07		Received: 02/28/19 15:05		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	0.00078	1	03/06/19 11:40	03/06/19 19:01	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 19:01	7440-38-2		
Barium	0.067	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 19:01	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/06/19 19:01	7440-41-7		
Cadmium	0.00026J	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 19:01	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 19:01	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 19:01	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 19:01	7439-92-1		
Lithium	0.0053J	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 19:01	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 19:01	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 19:01	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 19:01	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000047J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:56	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	0.15J	mg/L	0.30	0.029	1		03/05/19 06:16	16984-48-8		

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: EB-1-2-27-19		Lab ID: 2615503015		Collected: 02/27/19 12:20		Received: 02/28/19 15:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	03/06/19 11:40	03/06/19 19:07	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 19:07	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 19:07	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/06/19 19:07	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 19:07	7440-43-9	
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 19:07	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 19:07	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 19:07	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 19:07	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 19:07	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 19:07	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 19:07	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000047J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 13:59	7439-97-6	B
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	0.11J	mg/L	0.30	0.029	1		03/05/19 06:39	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: EB-2-2-27-19		Lab ID: 2615503016		Collected: 02/27/19 14:30		Received: 02/28/19 15:05		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Antimony	ND	mg/L	0.0030	0.00078	1	03/06/19 11:40	03/06/19 19:13	7440-36-0	
Arsenic	ND	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 19:13	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 19:13	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/06/19 19:13	7440-41-7	
Cadmium	ND	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 19:13	7440-43-9	
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 19:13	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 19:13	7440-48-4	
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 19:13	7439-92-1	
Lithium	ND	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 19:13	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 19:13	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 19:13	7782-49-2	
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 19:13	7440-28-0	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000051J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 14:01	7439-97-6	B
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Fluoride	0.11J	mg/L	0.30	0.029	1		03/05/19 07:02	16984-48-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: DUP-1		Lab ID: 2615503017		Collected: 02/27/19 00:00		Received: 02/28/19 15:05		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	0.00078	1	03/06/19 11:40	03/06/19 19:18	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 19:18	7440-38-2		
Barium	0.064	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 19:18	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/06/19 19:18	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 19:18	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 19:18	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 19:18	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 19:18	7439-92-1		
Lithium	0.0064J	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 19:18	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 19:18	7439-98-7		
Selenium	0.0024J	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 19:18	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 19:18	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000058J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 14:03	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	0.14J	mg/L	0.30	0.029	1		03/05/19 07:25	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: DUP-2		Lab ID: 2615503018		Collected: 02/27/19 00:00		Received: 02/28/19 15:05		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	0.00078	1	03/06/19 11:40	03/06/19 19:24	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 19:24	7440-38-2		
Barium	0.23	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 19:24	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/06/19 19:24	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 19:24	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 19:24	7440-47-3		
Cobalt	0.00096J	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 19:24	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 19:24	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 19:24	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 19:24	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 19:24	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 19:24	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000048J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 14:06	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	0.22J	mg/L	0.30	0.029	1		03/05/19 07:48	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: FB-1-2-27-19		Lab ID: 2615503019		Collected: 02/27/19 12:50		Received: 02/28/19 15:05		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	0.00078	1	03/06/19 11:40	03/06/19 19:41	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 19:41	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 19:41	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/07/19 13:43	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 19:41	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 19:41	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 19:41	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 19:41	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 19:41	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 19:41	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 19:41	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 19:41	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000049J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 14:08	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	0.11J	mg/L	0.30	0.029	1		03/05/19 08:11	16984-48-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Sample: FB-2-2-27-19		Lab ID: 2615503020		Collected: 02/27/19 15:00		Received: 02/28/19 15:05		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	0.00078	1	03/06/19 11:40	03/06/19 19:47	7440-36-0		
Arsenic	ND	mg/L	0.0050	0.00057	1	03/06/19 11:40	03/06/19 19:47	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	03/06/19 11:40	03/06/19 19:47	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	03/06/19 11:40	03/07/19 13:49	7440-41-7		
Cadmium	ND	mg/L	0.0010	0.000093	1	03/06/19 11:40	03/06/19 19:47	7440-43-9		
Chromium	ND	mg/L	0.010	0.0016	1	03/06/19 11:40	03/06/19 19:47	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	03/06/19 11:40	03/06/19 19:47	7440-48-4		
Lead	ND	mg/L	0.0050	0.00027	1	03/06/19 11:40	03/06/19 19:47	7439-92-1		
Lithium	ND	mg/L	0.050	0.00097	1	03/06/19 11:40	03/06/19 19:47	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	03/06/19 11:40	03/06/19 19:47	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	03/06/19 11:40	03/06/19 19:47	7782-49-2		
Thallium	ND	mg/L	0.0010	0.00014	1	03/06/19 11:40	03/06/19 19:47	7440-28-0		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000050J	mg/L	0.00050	0.000036	1	03/04/19 13:48	03/05/19 14:10	7439-97-6	B	
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Fluoride	0.10J	mg/L	0.30	0.029	1		03/05/19 10:05	16984-48-8		

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

QC Batch: 23510

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2615503001, 2615503002, 2615503003, 2615503004, 2615503005

METHOD BLANK: 105333

Matrix: Water

Associated Lab Samples: 2615503001, 2615503002, 2615503003, 2615503004, 2615503005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000058J	0.00050	0.000036	03/05/19 12:05	

LABORATORY CONTROL SAMPLE: 105334

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0027	108	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105335

105336

Parameter	Units	MS		MSD		% Rec		% Rec Limits	Max RPD	Qual
		2615468001 Result	Spike Conc.	Spike Conc.	Result	% Rec	% Rec			
Mercury	mg/L	0.000074J	0.0025	0.0025	0.0025	0.0025	99	97	75-125	2 20

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

QC Batch: 23522 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2615503006, 2615503007, 2615503008, 2615503009, 2615503010, 2615503011, 2615503012, 2615503013,
 2615503014, 2615503015, 2615503016, 2615503017, 2615503018, 2615503019, 2615503020

METHOD BLANK: 105366 Matrix: Water
 Associated Lab Samples: 2615503006, 2615503007, 2615503008, 2615503009, 2615503010, 2615503011, 2615503012, 2615503013,
 2615503014, 2615503015, 2615503016, 2615503017, 2615503018, 2615503019, 2615503020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000049J	0.00050	0.000036	03/05/19 13:21	

LABORATORY CONTROL SAMPLE: 105367

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0026	105	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105368 105369

Parameter	Units	2615503006 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.000054J	0.0025	0.0025	0.0028	0.0027	110	107	75-125	3	20	

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

QC Batch: 23567 Analysis Method: EPA 6020B
 QC Batch Method: EPA 3005A Analysis Description: 6020B MET
 Associated Lab Samples: 2615503001, 2615503002, 2615503003, 2615503004, 2615503005, 2615503006, 2615503007, 2615503008, 2615503009, 2615503010

METHOD BLANK: 105477 Matrix: Water
 Associated Lab Samples: 2615503001, 2615503002, 2615503003, 2615503004, 2615503005, 2615503006, 2615503007, 2615503008, 2615503009, 2615503010

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/06/19 12:37	
Arsenic	mg/L	ND	0.0050	0.00057	03/06/19 12:37	
Barium	mg/L	ND	0.010	0.00078	03/06/19 12:37	
Beryllium	mg/L	ND	0.0030	0.000050	03/06/19 12:37	
Cadmium	mg/L	ND	0.0010	0.000093	03/06/19 12:37	
Chromium	mg/L	ND	0.010	0.0016	03/06/19 12:37	
Cobalt	mg/L	ND	0.010	0.00052	03/06/19 12:37	
Lead	mg/L	ND	0.0050	0.00027	03/06/19 12:37	
Lithium	mg/L	ND	0.050	0.00097	03/06/19 12:37	
Molybdenum	mg/L	ND	0.010	0.0019	03/06/19 12:37	
Selenium	mg/L	ND	0.010	0.0014	03/06/19 12:37	
Thallium	mg/L	ND	0.0010	0.00014	03/06/19 12:37	

LABORATORY CONTROL SAMPLE: 105478

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	0.097	97	80-120	
Barium	mg/L	0.1	0.098	98	80-120	
Beryllium	mg/L	0.1	0.098	98	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Chromium	mg/L	0.1	0.10	103	80-120	
Cobalt	mg/L	0.1	0.10	102	80-120	
Lead	mg/L	0.1	0.10	100	80-120	
Lithium	mg/L	0.1	0.099	99	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	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105479 105480

Parameter	Units	2615503001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	ND	0.1	0.1	0.10	0.098	100	98	75-125	2	20	
Barium	mg/L	0.0067J	0.1	0.1	0.11	0.11	104	104	75-125	0	20	
Beryllium	mg/L	0.00016J	0.1	0.1	0.096	0.098	96	98	75-125	2	20	

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105479		105480		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2615503001 Result	MS Spike Conc.	MSD Spike Conc.									
Cadmium	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	2	20		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	104	103	75-125	1	20		
Cobalt	mg/L	ND	0.1	0.1	0.10	0.10	103	100	75-125	3	20		
Lead	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	1	20		
Lithium	mg/L	ND	0.1	0.1	0.099	0.097	99	97	75-125	2	20		
Molybdenum	mg/L	ND	0.1	0.1	0.10	0.10	105	105	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.11	0.10	104	100	75-125	4	20		
Thallium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615503

QC Batch: 23687 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2615503011, 2615503012, 2615503013, 2615503014, 2615503015, 2615503016, 2615503017, 2615503018, 2615503019, 2615503020

METHOD BLANK: 106016 Matrix: Water
Associated Lab Samples: 2615503011, 2615503012, 2615503013, 2615503014, 2615503015, 2615503016, 2615503017, 2615503018, 2615503019, 2615503020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Antimony	mg/L	ND	0.0030	0.00078	03/06/19 18:24	
Arsenic	mg/L	ND	0.0050	0.00057	03/06/19 18:24	
Barium	mg/L	ND	0.010	0.00078	03/06/19 18:24	
Beryllium	mg/L	ND	0.0030	0.000050	03/06/19 18:24	
Cadmium	mg/L	ND	0.0010	0.000093	03/06/19 18:24	
Chromium	mg/L	ND	0.010	0.0016	03/06/19 18:24	
Cobalt	mg/L	ND	0.010	0.00052	03/06/19 18:24	
Lead	mg/L	ND	0.0050	0.00027	03/06/19 18:24	
Lithium	mg/L	ND	0.050	0.00097	03/06/19 18:24	
Molybdenum	mg/L	ND	0.010	0.0019	03/06/19 18:24	
Selenium	mg/L	ND	0.010	0.0014	03/06/19 18:24	
Thallium	mg/L	ND	0.0010	0.00014	03/06/19 18:24	

LABORATORY CONTROL SAMPLE: 106017

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	mg/L	0.1	0.11	108	80-120	
Arsenic	mg/L	0.1	0.10	101	80-120	
Barium	mg/L	0.1	0.10	104	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Cadmium	mg/L	0.1	0.10	102	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	0.10	102	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.10	105	80-120	
Selenium	mg/L	0.1	0.10	104	80-120	
Thallium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106018 106019

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		2615551001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Antimony	mg/L	ND	0.1	0.1	0.10	0.11	105	107	75-125	2	20	
Arsenic	mg/L	0.0058	0.1	0.1	0.11	0.11	101	103	75-125	2	20	
Barium	mg/L	0.053	0.1	0.1	0.15	0.16	102	106	75-125	3	20	
Beryllium	mg/L	ND	0.1	0.1	0.10	0.10	101	101	75-125	0	20	

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 106018		106019		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2615551001 Result	MS Spike Conc.	MSD Spike Conc.								
Cadmium	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	2	20	
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Cobalt	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	
Lead	mg/L	ND	0.1	0.1	0.098	0.098	98	98	75-125	0	20	
Lithium	mg/L	0.0017J	0.1	0.1	0.096	0.095	95	94	75-125	1	20	
Molybdenum	mg/L	0.0035J	0.1	0.1	0.10	0.11	101	104	75-125	3	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	103	106	75-125	3	20	
Thallium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	2	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615503

QC Batch: 23494 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2615503001, 2615503002, 2615503003, 2615503004, 2615503005, 2615503006, 2615503007, 2615503008, 2615503009, 2615503010, 2615503011

METHOD BLANK: 105287 Matrix: Water
Associated Lab Samples: 2615503001, 2615503002, 2615503003, 2615503004, 2615503005, 2615503006, 2615503007, 2615503008, 2615503009, 2615503010, 2615503011

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.30	0.029	03/04/19 21:30	

LABORATORY CONTROL SAMPLE: 105288

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	10	9.5	95	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105374 105375

Parameter	Units	2615499001 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	10	10	8.5	8.9	85	89	90-110	5	15	M1

MATRIX SPIKE SAMPLE: 105376

Parameter	Units	2615499002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	0.26J	10	9.9	96	90-110	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

QC Batch: 23574 Analysis Method: EPA 300.0
 QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
 Associated Lab Samples: 2615503012, 2615503013, 2615503014, 2615503015, 2615503016, 2615503017, 2615503018, 2615503019, 2615503020

METHOD BLANK: 105501 Matrix: Water
 Associated Lab Samples: 2615503012, 2615503013, 2615503014, 2615503015, 2615503016, 2615503017, 2615503018, 2615503019, 2615503020

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Fluoride	mg/L	ND	0.30	0.029	03/05/19 03:59	

LABORATORY CONTROL SAMPLE: 105502

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	10	10.3	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 105503 105504

Parameter	Units	2615503012 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Fluoride	mg/L	0.22J	10	10	10.1	10.1	99	99	90-110	0	15	

MATRIX SPIKE SAMPLE: 105505

Parameter	Units	2615503013 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Fluoride	mg/L	0.14J	10	9.7	96	90-110	

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QUALIFIERS

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615503

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.

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 - Ash Ponds 2

Pace Project No.: 2615503

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2615503001	YGWA-14S	EPA 3005A	23567	EPA 6020B	23647
2615503002	YGWA-30I	EPA 3005A	23567	EPA 6020B	23647
2615503003	YGWA-3I	EPA 3005A	23567	EPA 6020B	23647
2615503004	YGWA-3D	EPA 3005A	23567	EPA 6020B	23647
2615503005	YGWA-2I	EPA 3005A	23567	EPA 6020B	23647
2615503006	YGWA-1I	EPA 3005A	23567	EPA 6020B	23647
2615503007	YGWA-1D	EPA 3005A	23567	EPA 6020B	23647
2615503008	YGWC-26S	EPA 3005A	23567	EPA 6020B	23647
2615503009	YGWC-26I	EPA 3005A	23567	EPA 6020B	23647
2615503010	YGWC-27S	EPA 3005A	23567	EPA 6020B	23647
2615503011	YGWC-27I	EPA 3005A	23687	EPA 6020B	23738
2615503012	YGWC-28S	EPA 3005A	23687	EPA 6020B	23738
2615503013	YGWC-28I	EPA 3005A	23687	EPA 6020B	23738
2615503014	YGWC-29I	EPA 3005A	23687	EPA 6020B	23738
2615503015	EB-1-2-27-19	EPA 3005A	23687	EPA 6020B	23738
2615503016	EB-2-2-27-19	EPA 3005A	23687	EPA 6020B	23738
2615503017	DUP-1	EPA 3005A	23687	EPA 6020B	23738
2615503018	DUP-2	EPA 3005A	23687	EPA 6020B	23738
2615503019	FB-1-2-27-19	EPA 3005A	23687	EPA 6020B	23738
2615503020	FB-2-2-27-19	EPA 3005A	23687	EPA 6020B	23738
2615503001	YGWA-14S	EPA 7470A	23510	EPA 7470A	23534
2615503002	YGWA-30I	EPA 7470A	23510	EPA 7470A	23534
2615503003	YGWA-3I	EPA 7470A	23510	EPA 7470A	23534
2615503004	YGWA-3D	EPA 7470A	23510	EPA 7470A	23534
2615503005	YGWA-2I	EPA 7470A	23510	EPA 7470A	23534
2615503006	YGWA-1I	EPA 7470A	23522	EPA 7470A	23552
2615503007	YGWA-1D	EPA 7470A	23522	EPA 7470A	23552
2615503008	YGWC-26S	EPA 7470A	23522	EPA 7470A	23552
2615503009	YGWC-26I	EPA 7470A	23522	EPA 7470A	23552
2615503010	YGWC-27S	EPA 7470A	23522	EPA 7470A	23552
2615503011	YGWC-27I	EPA 7470A	23522	EPA 7470A	23552
2615503012	YGWC-28S	EPA 7470A	23522	EPA 7470A	23552
2615503013	YGWC-28I	EPA 7470A	23522	EPA 7470A	23552
2615503014	YGWC-29I	EPA 7470A	23522	EPA 7470A	23552
2615503015	EB-1-2-27-19	EPA 7470A	23522	EPA 7470A	23552
2615503016	EB-2-2-27-19	EPA 7470A	23522	EPA 7470A	23552
2615503017	DUP-1	EPA 7470A	23522	EPA 7470A	23552
2615503018	DUP-2	EPA 7470A	23522	EPA 7470A	23552
2615503019	FB-1-2-27-19	EPA 7470A	23522	EPA 7470A	23552
2615503020	FB-2-2-27-19	EPA 7470A	23522	EPA 7470A	23552
2615503001	YGWA-14S	EPA 300.0	23494		
2615503002	YGWA-30I	EPA 300.0	23494		
2615503003	YGWA-3I	EPA 300.0	23494		
2615503004	YGWA-3D	EPA 300.0	23494		
2615503005	YGWA-2I	EPA 300.0	23494		
2615503006	YGWA-1I	EPA 300.0	23494		
2615503007	YGWA-1D	EPA 300.0	23494		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615503

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2615503008	YGWC-26S	EPA 300.0	23494		
2615503009	YGWC-26I	EPA 300.0	23494		
2615503010	YGWC-27S	EPA 300.0	23494		
2615503011	YGWC-27I	EPA 300.0	23494		
2615503012	YGWC-28S	EPA 300.0	23574		
2615503013	YGWC-28I	EPA 300.0	23574		
2615503014	YGWC-29I	EPA 300.0	23574		
2615503015	EB-1-2-27-19	EPA 300.0	23574		
2615503016	EB-2-2-27-19	EPA 300.0	23574		
2615503017	DUP-1	EPA 300.0	23574		
2615503018	DUP-2	EPA 300.0	23574		
2615503019	FB-1-2-27-19	EPA 300.0	23574		
2615503020	FB-2-2-27-19	EPA 300.0	23574		

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Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

CLIENT NAME:		ANALYSIS REQUESTED		CONTAINER TYPE		PRESERVATION	
Georgia Power		P P P P P P P P		P - PLASTIC		1 - HCl, ≤6°C	
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:		CONTAINER TYPE:		A - AMBER GLASS		2 - H ₂ SO ₄ , ≤6°C	
241 Ralph McGill Blvd SE B10165		# of		G - CLEAR GLASS		3 - HNO ₃	
Atlanta, GA 30308		CONTAINERS		V - VOA VIAL		4 - NaOH, ≤6°C	
404-506-7239		↓		S - STERILE		5 - NaOH/ZnAc, ≤6°C	
REPORT TO:		CONTAINERS		O - OTHER		6 - Na ₂ S ₂ O ₃ , ≤6°C	
Joju Abraham		CONTAINERS				7 - ≤6°C not frozen	
REQUESTED COMPLETION DATE:		CONTAINERS					
PO #:		CONTAINERS					
PROJECT NAME/STATE:		CONTAINERS					
Plant Yates - Ash Pond 2		CONTAINERS					
PROJECT #:		CONTAINERS					
		CONTAINERS					
Collection DATE	Collection TIME	MATRIX CODE	C O R M A B	SAMPLE IDENTIFICATION	Floude	Metals App IV (EPA 6020/7470)	Radium 226 & 228 (SW-846 9315/9320)
2-26-19	1308	BW	✓	Y6WA-14S	1	1	2
2-26-19	1438	BW	✓	Y6WA-30I	1	1	2
2-27-19	1245	BW	✓	Y6WA-3I	1	1	2
2-27-19	1105	BW	✓	Y6WA-3D	1	1	2
2-27-19	1048	BW	✓	Y6WA-2I	1	1	2
2-27-19	1210	BW	✓	Y6WA-1I	1	1	2
2-27-19	1008	BW	✓	Y6WA-1D	1	1	2
2-27-19	1258	BW	✓	Y6WC-26S	1	1	2
2-27-19	1412	BW	✓	Y6WC-26I	1	1	2
2-27-19	1415	BW	✓	Y6WC-27S	1	1	4
2-27-19	1520	BW	✓	Y6WC-27I	1	1	2
2-27-19	1726	BW	✓	Y6WC-28S	1	1	2
SAMPLER BY AND TITLE:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:	
Charles R. Walker, H.A.L.		See above		[Signature]		2-28-19 / 1505	
RECEIVED BY:		DATE/TIME:		RELINQUISHED BY:		DATE/TIME:	
[Signature]		2/28/19 1505		[Signature]		2-28-19 / 1505	
RECEIVED BY LAB:		DATE/TIME:		SAMPLE SHIPPED VIA:		COURIER	
[Signature]		2/28/19 1505		UPS		OTHER FS	
pH checked:		Temperature:		Custody Seal:		# of Coolers	
Yes		Min		Intact Broken		Cooler ID	
No		Max		Not Present		2615503	

NO#: 2615503



2615503

Extra Rad collected here



Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

CLIENT NAME: Georgia Power		ANALYSIS REQUESTED		CONTAINER TYPE		PRESERVATION	
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239		# of CONTAINERS		P P P P P P P		P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER	
REPORT TO: Joju Abraham		CONTAINER TYPE		P 3		1 - HCl, ≤6°C 2 - H ₂ SO ₄ , ≤6°C 3 - HNO ₃ 4 - NaOH, ≤6°C 5 - NaOH/ZnAc, ≤6°C 6 - Na ₂ S ₂ O ₃ , ≤6°C 7 - ≤6°C not frozen	
REQUESTED COMPLETION DATE:		PRESERVATION:		3		-MATRIX CODES: DW - DRINKING WATER S - SOIL WW - WASTEWATER SL - SLUDGE GW - GROUNDWATER SD - SOLID SW - SURFACE WATER A - AIR ST - STORM WATER L - LIQUID W - WATER P - PRODUCT	
PROJECT NAME/STATE: Plant Yates - Ash Pond 2		C O N T A I N E R S		Metals App. IV (EPA 6020/7470) Fluoride Radium 226 & 228 (SW-846 9315/9320)		REMARKS/ADDITIONAL INFORMATION	
PROJECT #:		C O L L E C T I O N		M A T R I X			
		DATE		CODE			
		TIME					
		SAMPLE IDENTIFICATION					
2-27-19		1550		6W		V Y6WC-28I	
2-27-19		1407		6W		V Y6WC-29I	
2-27-19		1220		W		V FB-1-2-27-19	
2-27-19		1430		W		V FB-2-2-27-19	
2-27-19		---		6W		V Dup-1	
2-27-19		---		6W		V Dup-2	
2-27-19		1250		W		V FB-1-2-27-19	
2-27-19		1500		W		V FB-2-2-27-19	
SAMPLED BY AND TITLE: P. W. Baker, C. Baker, H. Auld (all)		DATE/TIME: 2-28-19 1505		RELINQUISHED BY: [Signature]		DATE/TIME: 2-28-19 1505	
RECEIVED BY: [Signature]		DATE/TIME: 2-28-19 1505		RELINQUISHED BY: [Signature]		DATE/TIME: 2-28-19 1505	
RECEIVED BY US: [Signature]		DATE/TIME: 2-28-19 1505		SAMPLE SHIPPED VIA: UPS		CLIENT: OTHER FS	
Checked: [Signature]		Temperature: 24°C		Custody Seal: Intact		# of Coolers: Not Present	
Yes No NA		Min Max		Broken		Cooler ID	

WO#: 2615503



Yates Ash Pond 2 - Blank COCs.xlsx

Sample Condition Upon Receipt

WO#: 2615503



Client Name: Georgia Power
Coal Combustion

PM: BM Due Date: 03/07/19
CLIENT: GAPower-CCR

Courier: Fed Ex UPS USPS Client Commercial Pace Other

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

Proj Name: _____

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used: 083 Type of Ice: Wet Blue None

Cooler Temperature: 2.4°C Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Samples on ice, cooling process has begun
Date and Initials of person examining contents: 2/20/19

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>WT</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
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):		

Field Data Required? Y / N

Client Notification/ Resolution:
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)

March 22, 2019

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

RE: Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615504

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on February 28, 2019. 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,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615504

Pennsylvania Certification IDs

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
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: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2615504001	YGWA-14S	Water	02/26/19 13:08	02/28/19 15:05
2615504002	YGWA-30I	Water	02/26/19 14:38	02/28/19 15:05
2615504003	YGWA-3I	Water	02/27/19 12:45	02/28/19 15:05
2615504004	YGWA-3D	Water	02/27/19 11:05	02/28/19 15:05
2615504005	YGWA-2I	Water	02/27/19 10:48	02/28/19 15:05
2615504006	YGWA-1I	Water	02/27/19 12:10	02/28/19 15:05
2615504007	YGWA-1D	Water	02/27/19 10:08	02/28/19 15:05
2615504008	YGWC-26S	Water	02/27/19 12:58	02/28/19 15:05
2615504009	YGWC-26I	Water	02/27/19 14:12	02/28/19 15:05
2615504010	YGWC-27S	Water	02/27/19 14:15	02/28/19 15:05
2615504011	YGWC-27I	Water	02/27/19 15:20	02/28/19 15:05
2615504012	YGWC-28S	Water	02/27/19 17:26	02/28/19 15:05
2615504013	YGWC-28I	Water	02/27/19 15:50	02/28/19 15:05
2615504014	YGWC-29I	Water	02/27/19 14:07	02/28/19 15:05
2615504015	EB-1-2-27-19	Water	02/27/19 12:20	02/28/19 15:05
2615504016	EB-2-2-27-19	Water	02/27/19 14:30	02/28/19 15:05
2615504017	DUP-1	Water	02/27/19 00:00	02/28/19 15:05
2615504018	DUP-2	Water	02/27/19 00:00	02/28/19 15:05
2615504019	FB-1-2-27-19	Water	02/27/19 12:50	02/28/19 15:05
2615504020	FB-2-2-27-19	Water	02/27/19 15:00	02/28/19 15:05

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615504

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2615504001	YGWA-14S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504002	YGWA-30I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504003	YGWA-3I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504004	YGWA-3D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504005	YGWA-2I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504006	YGWA-1I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504007	YGWA-1D	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504008	YGWC-26S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504009	YGWC-26I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504010	YGWC-27S	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504011	YGWC-27I	EPA 9315	JJY	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504012	YGWC-28S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2615504013	YGWC-28I	EPA 9315	JJY	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615504

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2615504014	YGWC-29I	EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
2615504015	EB-1-2-27-19	EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
2615504016	EB-2-2-27-19	EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
2615504017	DUP-1	EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
2615504018	DUP-2	EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
2615504019	FB-1-2-27-19	EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA
2615504020	FB-2-2-27-19	EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	JJY	1	PASI-PA

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWA-14S **Lab ID: 2615504001** Collected: 02/26/19 13:08 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.202 ± 0.289 (0.634) C:96% T:NA	pCi/L	03/14/19 08:13	13982-63-3	
Radium-228	EPA 9320	-0.0131 ± 0.310 (0.726) C:68% T:95%	pCi/L	03/20/19 11:11	15262-20-1	
Total Radium	Total Radium Calculation	0.202 ± 0.599 (1.36)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWA-30I **Lab ID: 2615504002** Collected: 02/26/19 14:38 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.329 ± 0.240 (0.375) C:98% T:NA	pCi/L	03/14/19 08:13	13982-63-3	
Radium-228	EPA 9320	0.195 ± 0.370 (0.813) C:64% T:84%	pCi/L	03/20/19 11:11	15262-20-1	
Total Radium	Total Radium Calculation	0.524 ± 0.610 (1.19)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWA-3I **Lab ID: 2615504003** Collected: 02/27/19 12:45 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.66 ± 0.703 (0.525) C:91% T:NA	pCi/L	03/14/19 08:17	13982-63-3	
Radium-228	EPA 9320	1.01 ± 0.472 (0.792) C:71% T:80%	pCi/L	03/20/19 11:12	15262-20-1	
Total Radium	Total Radium Calculation	3.67 ± 1.18 (1.32)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWA-3D **Lab ID: 2615504004** Collected: 02/27/19 11:05 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.72 ± 0.537 (0.437) C:91% T:NA	pCi/L	03/14/19 08:14	13982-63-3	
Radium-228	EPA 9320	2.07 ± 0.659 (0.861) C:65% T:85%	pCi/L	03/20/19 11:12	15262-20-1	
Total Radium	Total Radium Calculation	3.79 ± 1.20 (1.30)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWA-2I **Lab ID: 2615504005** Collected: 02/27/19 10:48 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.288 ± 0.273 (0.534) C:96% T:NA	pCi/L	03/14/19 08:14	13982-63-3	
Radium-228	EPA 9320	0.347 ± 0.427 (0.905) C:69% T:81%	pCi/L	03/20/19 11:12	15262-20-1	
Total Radium	Total Radium Calculation	0.635 ± 0.700 (1.44)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWA-1I **Lab ID: 2615504006** Collected: 02/27/19 12:10 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.472 ± 0.293 (0.432) C:86% T:NA	pCi/L	03/14/19 08:17	13982-63-3	
Radium-228	EPA 9320	0.165 ± 0.347 (0.767) C:67% T:87%	pCi/L	03/20/19 11:12	15262-20-1	
Total Radium	Total Radium Calculation	0.637 ± 0.640 (1.20)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWA-1D **Lab ID: 2615504007** Collected: 02/27/19 10:08 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.752 ± 0.356 (0.450) C:95% T:NA	pCi/L	03/14/19 08:14	13982-63-3	
Radium-228	EPA 9320	0.458 ± 0.402 (0.812) C:65% T:85%	pCi/L	03/20/19 11:12	15262-20-1	
Total Radium	Total Radium Calculation	1.21 ± 0.758 (1.26)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWC-26S **Lab ID: 2615504008** Collected: 02/27/19 12:58 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.752 ± 0.340 (0.329) C:87% T:NA	pCi/L	03/14/19 08:08	13982-63-3	
Radium-228	EPA 9320	0.515 ± 0.340 (0.626) C:70% T:80%	pCi/L	03/20/19 11:13	15262-20-1	
Total Radium	Total Radium Calculation	1.27 ± 0.680 (0.955)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWC-261 **Lab ID: 2615504009** Collected: 02/27/19 14:12 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.376 ± 0.246 (0.350) C:93% T:NA	pCi/L	03/14/19 08:08	13982-63-3	
Radium-228	EPA 9320	0.238 ± 0.442 (0.968) C:64% T:85%	pCi/L	03/20/19 14:19	15262-20-1	
Total Radium	Total Radium Calculation	0.614 ± 0.688 (1.32)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWC-27S **Lab ID: 2615504010** Collected: 02/27/19 14:15 Received: 02/28/19 15:05 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 ± 0.282 (0.395) C:98% T:NA	pCi/L	03/14/19 08:09	13982-63-3	
Radium-228	EPA 9320	0.690 ± 0.386 (0.677) C:67% T:82%	pCi/L	03/20/19 14:19	15262-20-1	
Total Radium	Total Radium Calculation	1.19 ± 0.668 (1.07)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWC-271 **Lab ID: 2615504011** Collected: 02/27/19 15:20 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	3.11 ± 0.781 (0.441) C:86% T:NA	pCi/L	03/14/19 08:14	13982-63-3	
Radium-228	EPA 9320	1.58 ± 0.607 (0.977) C:77% T:80%	pCi/L	03/20/19 11:09	15262-20-1	
Total Radium	Total Radium Calculation	4.69 ± 1.39 (1.42)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWC-28S **Lab ID: 2615504012** Collected: 02/27/19 17:26 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.332 ± 0.133 (0.173) C:94% T:NA	pCi/L	03/14/19 15:34	13982-63-3	
Radium-228	EPA 9320	0.211 ± 0.298 (0.639) C:74% T:100%	pCi/L	03/20/19 11:10	15262-20-1	
Total Radium	Total Radium Calculation	0.543 ± 0.431 (0.812)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWC-28I **Lab ID: 2615504013** Collected: 02/27/19 15:50 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.812 ± 0.375 (0.508) C:98% T:NA	pCi/L	03/14/19 08:14	13982-63-3	
Radium-228	EPA 9320	0.135 ± 0.344 (0.769) C:75% T:83%	pCi/L	03/20/19 11:09	15262-20-1	
Total Radium	Total Radium Calculation	0.947 ± 0.719 (1.28)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: YGWC-29I **Lab ID: 2615504014** Collected: 02/27/19 14:07 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.830 ± 0.358 (0.367) C:90% T:NA	pCi/L	03/14/19 08:08	13982-63-3	
Radium-228	EPA 9320	0.0716 ± 0.446 (1.01) C:68% T:89%	pCi/L	03/20/19 14:19	15262-20-1	
Total Radium	Total Radium Calculation	0.902 ± 0.804 (1.38)	pCi/L	03/21/19 13:20	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: EB-1-2-27-19 **Lab ID: 2615504015** Collected: 02/27/19 12:20 Received: 02/28/19 15:05 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 ± 0.329 (0.517) C:95% T:NA	pCi/L	03/14/19 08:17	13982-63-3	
Radium-228	EPA 9320	0.539 ± 0.363 (0.686) C:69% T:90%	pCi/L	03/20/19 11:12	15262-20-1	
Total Radium	Total Radium Calculation	1.10 ± 0.692 (1.20)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: EB-2-2-27-19 **Lab ID: 2615504016** Collected: 02/27/19 14:30 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.335 ± 0.256 (0.449) C:100% T:NA	pCi/L	03/14/19 08:14	13982-63-3	
Radium-228	EPA 9320	0.502 ± 0.358 (0.689) C:69% T:87%	pCi/L	03/20/19 14:19	15262-20-1	
Total Radium	Total Radium Calculation	0.837 ± 0.614 (1.14)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: DUP-1 **Lab ID: 2615504017** Collected: 02/27/19 00:00 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.247 ± 0.268 (0.541) C:85% T:NA	pCi/L	03/14/19 08:13	13982-63-3	
Radium-228	EPA 9320	0.516 ± 0.413 (0.819) C:68% T:82%	pCi/L	03/20/19 11:11	15262-20-1	
Total Radium	Total Radium Calculation	0.763 ± 0.681 (1.36)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: DUP-2 **Lab ID: 2615504018** Collected: 02/27/19 00:00 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.757 ± 0.370 (0.519) C:96% T:NA	pCi/L	03/14/19 08:13	13982-63-3	
Radium-228	EPA 9320	0.397 ± 0.402 (0.830) C:67% T:84%	pCi/L	03/20/19 11:11	15262-20-1	
Total Radium	Total Radium Calculation	1.15 ± 0.772 (1.35)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: FB-1-2-27-19 **Lab ID: 2615504019** Collected: 02/27/19 12:50 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.598 ± 0.296 (0.338) C:99% T:NA	pCi/L	03/14/19 08:08	13982-63-3	
Radium-228	EPA 9320	0.000 ± 0.344 (0.806) C:70% T:76%	pCi/L	03/20/19 11:12	15262-20-1	
Total Radium	Total Radium Calculation	0.598 ± 0.640 (1.14)	pCi/L	03/21/19 13:20	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

Sample: FB-2-2-27-19 **Lab ID: 2615504020** Collected: 02/27/19 15:00 Received: 02/28/19 15:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.248 ± 0.243 (0.466) C:89% T:NA	pCi/L	03/14/19 08:14	13982-63-3	
Radium-228	EPA 9320	1.20 ± 1.09 (2.23) C:25% T:81%	pCi/L	03/20/19 11:09	15262-20-1	
Total Radium	Total Radium Calculation	1.45 ± 1.33 (2.70)	pCi/L	03/21/19 13:20	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

QC Batch: 333523

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2615504012

METHOD BLANK: 1622805

Matrix: Water

Associated Lab Samples: 2615504012

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.339 ± 0.328 (0.659) C:96% T:NA	pCi/L	03/15/19 09:04	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

QC Batch: 333851 Analysis Method: EPA 9320
 QC Batch Method: EPA 9320 Analysis Description: 9320 Radium 228
 Associated Lab Samples: 2615504011, 2615504012, 2615504013, 2615504020

METHOD BLANK: 1624808 Matrix: Water
 Associated Lab Samples: 2615504011, 2615504012, 2615504013, 2615504020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.242 ± 0.382 (0.828) C:74% T:75%	pCi/L	03/20/19 11:09	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

QC Batch:	332855	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	2615504001, 2615504002, 2615504003, 2615504004, 2615504005, 2615504006, 2615504007, 2615504008, 2615504009, 2615504010, 2615504014, 2615504015, 2615504016, 2615504017, 2615504018, 2615504019		

METHOD BLANK:	1619643	Matrix:	Water
Associated Lab Samples:	2615504001, 2615504002, 2615504003, 2615504004, 2615504005, 2615504006, 2615504007, 2615504008, 2615504009, 2615504010, 2615504014, 2615504015, 2615504016, 2615504017, 2615504018, 2615504019		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.349 ± 0.394 (0.830) C:71% T:87%	pCi/L	03/20/19 11:10	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

QC Batch: 332857 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Associated Lab Samples: 2615504001, 2615504002, 2615504003, 2615504004, 2615504005, 2615504006, 2615504007, 2615504008, 2615504009, 2615504010, 2615504011, 2615504013, 2615504014, 2615504015, 2615504016, 2615504017, 2615504018, 2615504019, 2615504020

METHOD BLANK: 1619645 Matrix: Water

Associated Lab Samples: 2615504001, 2615504002, 2615504003, 2615504004, 2615504005, 2615504006, 2615504007, 2615504008, 2615504009, 2615504010, 2615504011, 2615504013, 2615504014, 2615504015, 2615504016, 2615504017, 2615504018, 2615504019, 2615504020

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.424 ± 0.162 (0.231) C:91% T:NA	pCi/L	03/13/19 18:54	

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

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QUALIFIERS

Project: Plant Yates - Ash Ponds 2

Pace Project No.: 2615504

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.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615504

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2615504001	YGWA-14S	EPA 9315	332857		
2615504002	YGWA-30I	EPA 9315	332857		
2615504003	YGWA-3I	EPA 9315	332857		
2615504004	YGWA-3D	EPA 9315	332857		
2615504005	YGWA-2I	EPA 9315	332857		
2615504006	YGWA-1I	EPA 9315	332857		
2615504007	YGWA-1D	EPA 9315	332857		
2615504008	YGWC-26S	EPA 9315	332857		
2615504009	YGWC-26I	EPA 9315	332857		
2615504010	YGWC-27S	EPA 9315	332857		
2615504011	YGWC-27I	EPA 9315	332857		
2615504012	YGWC-28S	EPA 9315	333523		
2615504013	YGWC-28I	EPA 9315	332857		
2615504014	YGWC-29I	EPA 9315	332857		
2615504015	EB-1-2-27-19	EPA 9315	332857		
2615504016	EB-2-2-27-19	EPA 9315	332857		
2615504017	DUP-1	EPA 9315	332857		
2615504018	DUP-2	EPA 9315	332857		
2615504019	FB-1-2-27-19	EPA 9315	332857		
2615504020	FB-2-2-27-19	EPA 9315	332857		
2615504001	YGWA-14S	EPA 9320	332855		
2615504002	YGWA-30I	EPA 9320	332855		
2615504003	YGWA-3I	EPA 9320	332855		
2615504004	YGWA-3D	EPA 9320	332855		
2615504005	YGWA-2I	EPA 9320	332855		
2615504006	YGWA-1I	EPA 9320	332855		
2615504007	YGWA-1D	EPA 9320	332855		
2615504008	YGWC-26S	EPA 9320	332855		
2615504009	YGWC-26I	EPA 9320	332855		
2615504010	YGWC-27S	EPA 9320	332855		
2615504011	YGWC-27I	EPA 9320	333851		
2615504012	YGWC-28S	EPA 9320	333851		
2615504013	YGWC-28I	EPA 9320	333851		
2615504014	YGWC-29I	EPA 9320	332855		
2615504015	EB-1-2-27-19	EPA 9320	332855		
2615504016	EB-2-2-27-19	EPA 9320	332855		
2615504017	DUP-1	EPA 9320	332855		
2615504018	DUP-2	EPA 9320	332855		
2615504019	FB-1-2-27-19	EPA 9320	332855		
2615504020	FB-2-2-27-19	EPA 9320	333851		
2615504001	YGWA-14S	Total Radium Calculation	334845		
2615504002	YGWA-30I	Total Radium Calculation	334845		
2615504003	YGWA-3I	Total Radium Calculation	334845		
2615504004	YGWA-3D	Total Radium Calculation	334845		
2615504005	YGWA-2I	Total Radium Calculation	334845		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates - Ash Ponds 2
Pace Project No.: 2615504

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2615504006	YGWA-1I	Total Radium Calculation	334845		
2615504007	YGWA-1D	Total Radium Calculation	334845		
2615504008	YGWC-26S	Total Radium Calculation	334845		
2615504009	YGWC-26I	Total Radium Calculation	334845		
2615504010	YGWC-27S	Total Radium Calculation	334845		
2615504011	YGWC-27I	Total Radium Calculation	334845		
2615504012	YGWC-28S	Total Radium Calculation	334845		
2615504013	YGWC-28I	Total Radium Calculation	334845		
2615504014	YGWC-29I	Total Radium Calculation	334845		
2615504015	EB-1-2-27-19	Total Radium Calculation	334845		
2615504016	EB-2-2-27-19	Total Radium Calculation	334845		
2615504017	DUP-1	Total Radium Calculation	334845		
2615504018	DUP-2	Total Radium Calculation	334845		
2615504019	FB-1-2-27-19	Total Radium Calculation	334845		
2615504020	FB-2-2-27-19	Total Radium Calculation	334845		

REPORT OF LABORATORY ANALYSIS

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Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

CHAIN OF CUSTODY RECORD

CLIENT NAME:		ANALYSIS REQUESTED		CONTAINER TYPE		PRESERVATION	
Georgia Power		P P P		P - PLASTIC		1 - HCl, ≤6°C	
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:		P P P		A - AMBER GLASS		2 - H ₂ SO ₄ , ≤6°C	
241 Ralpl. McGill Blvd SE B10185		P P P		G - CLEAR GLASS		3 - HNO ₃	
Atlanta, GA 30308		P P P		V - VOA VIAL		4 - NaOH, ≤6°C	
404-506-7239		P P P		S - STERILE		5 - NaOH/ZnAc, ≤6°C	
REPORT TO:		P P P		O - OTHER		6 - Na ₂ S ₂ O ₃ , ≤6°C	
CC: Joju Abraham		P P P				7 - ≤6°C not frozen	
REQUESTED COMPLETION DATE:		P P P					
PROJECT NAME/STATE: Plant Yates - Ash Pond 2		P P P					
PROJECT #:		P P P					
Collection DATE	Collection TIME	MATRIX CODE	C O R A G R A B	SAMPLE IDENTIFICATION	CONTAINER TYPE	PRESERVATION	REMARKS/ADDITIONAL INFORMATION
2-26-19	1308	GW	V	Y6WA-14S			
2-26-19	1438	GW	V	Y6WA-30I			
2-27-19	1245	GW	V	Y6WA-3I			
2-27-19	1105	GW	V	Y6WA-3D			
2-27-19	1048	GW	V	Y6WA-2I			
2-27-19	1210	GW	V	Y6WA-1I			
2-27-19	1008	GW	V	Y6WA-1D			
2-27-19	1258	GW	V	Y6WC-26S			
2-27-19	1412	GW	V	Y6WC-26I			
2-27-19	1415	GW	V	Y6WC-27S			
2-27-19	1520	GW	V	Y6WC-27I			
2-27-19	1726	GW	V	Y6WC-28S			
SAMPLED BY AND TITLE:		RELINQUISHED BY:		DATE/TIME:		DATE/TIME:	
C. Baker, H. A. Tol		C. Baker, H. A. Tol		2-28-19 1505		2-28-19 1505	
RECEIVED BY:		RELINQUISHED BY:		DATE/TIME:		DATE/TIME:	
C. Baker, H. A. Tol		C. Baker, H. A. Tol		2-28-19 1505		2-28-19 1505	
RECEIVED BY LAB:		SAMPLE SHIPPED VIA:		COURIER		OTHER FS	
C. Baker, H. A. Tol		UPS		FedEx		Shent	
pH checked:		Intact		Broken		Cooler ID:	
Yes No NA		Yes No NA		Yes No NA		Cooler ID:	
Yes No NA		Yes No NA		Yes No NA		Cooler ID:	

WO#: 2615504

2615504

Yates Ash Pond 2 - Blank COCs.xlsx



CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CLIENT NAME: Georgia Power		CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239		REPORT TO: Joju Abraham		REQUESTED COMPLETION DATE: PO #:		PROJECT NAME/STATE: Plant Yates - Ash Pond 2		PROJECT #:	
CONTAINER TYPE: PRESERVATION	ANALYSIS REQUESTED	P	P	P	P	P	P	P	P	P	P
3	7	3	7	3	7	3	7	3	7	3	7
# of											
CONTAINERS											
CONTAINER TYPE	PRESERVATION	METALS APP IV (EPA 6020/7470)		Fluoride (SW 846 9315/9320)		Radium 226 & 228 (SW 846 9315/9320)		REMARKS/ADDITIONAL INFORMATION			
P - PLASTIC	1 - HCl, ≤6°C										
A - AMBER GLASS	2 - H ₂ SO ₄ , ≤6°C										
G - CLEAR GLASS	3 - HNO ₃										
V - VOA VIAL	4 - NaOH, ≤6°C										
S - STERILE	5 - NaOH/ZnAc, ≤6°C										
O - OTHER	6 - Na ₂ S ₂ O ₃ , ≤6°C										
	7 - ≤6°C not frozen										
*MATRIX CODES:											
DW - DRINKING WATER	S - SOIL										
WW - WASTEWATER	SL - SLUDGE										
GW - GROUNDWATER	SD - SOLID										
SW - SURFACE WATER	A - AIR										
ST - STORM WATER	L - LIQUID										
W - WATER	P - PRODUCT										

Collection DATE	Collection TIME	MATRIX CODE	C O R M A P B	SAMPLE IDENTIFICATION	RELINQUISHED BY:	DATE/TIME:
2-27-19	1550	GW	✓	Y6WC-28I	<i>[Signature]</i>	2-28-19 / 1505
2-27-19	1407	GW	✓	Y6WC-29I		
2-27-19	1220	W	✓	EB-1-2-27-19		
2-27-19	1430	W	✓	EB-2-2-27-19		
2-27-19	-	GW	✓	DUP-1		
2-27-19	-	GW	✓	DUP-2		
2-27-19	1250	W	✓	FB-1-2-27-19		
2-27-19	1500	W	✓	FB-2-2-27-19		

SAMPLED BY AND TITLE: <i>[Signature]</i>	DATE/TIME: 2-28-19 / 1505
RECEIVED BY: <i>[Signature]</i>	DATE/TIME:
RECEIVED BY LAB: <i>[Signature]</i>	DATE/TIME: 2-28-19 / 1505
Temperature: <i>[Signature]</i>	Min: <i>[Signature]</i> Max: <i>[Signature]</i>
UPS Intact: <input checked="" type="checkbox"/> Broken: <input type="checkbox"/>	FED-EX: <input type="checkbox"/> USPS: <input type="checkbox"/>
Courier: <input checked="" type="checkbox"/> Other: <input type="checkbox"/>	FS: <input type="checkbox"/>

WO#: 2615504



2615504

Yates Ash Pond 2 - Blank COCs.xlsx



Sample Condition Upon Receipt

WO#: 2615504

Client Name: Georgia Power Coal Combustion

PM: BM Due Date: 03/28/19 CLIENT: GAPower-CCR

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

Proj. Due Date: Proj. Name:

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 083 Type of Ice: Wet Blue None

Cooler Temperature 2.4°C Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Samples on ice, cooling process has begun Date and Initials of person examining contents: 2/28/19

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)

Product Name: Low-Flow System

Date: 2019-02-27 10:09:45

Project Information:

Operator Name Ryan Walker
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates- Ash Pond
 Site Name Plant Yates - Ash Pond
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 596190
 Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
 Tubing Type poly
 Tubing Diameter .17 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 50 ft
 Depth to Water 45.73 ft

Pumping Information:

Final Pumping Rate 150 mL/min
 Total System Volume 0.9670497 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1 in
 Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 10
Last 5 09:48:44	900.01	15.86	6.93	154.40	1.92	45.80	0.12	-166.84
Last 5 09:53:44	1200.00	15.86	6.90	150.80	1.78	45.80	0.11	-170.52
Last 5 09:58:44	1499.99	15.86	6.87	148.22	1.17	45.80	0.12	-168.97
Last 5 10:03:46	1801.99	15.90	6.85	146.65	1.13	45.80	0.13	-165.62
Last 5 10:08:47	2102.98	15.88	6.84	145.56	1.24	45.80	0.14	-162.31
Variance 0		0.00	-0.03	-2.58			0.01	1.55
Variance 1		0.04	-0.02	-1.57			0.01	3.35
Variance 2		-0.01	-0.02	-1.09			0.01	3.31

Notes

Sampled at 10:08 on 2/27/19. Cloudy 50's. FB-1-2-27-19 here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 12:12:37

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates AP 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 596190
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 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 33.56 ft

Pumping Information:

Final Pumping Rate 60 mL/min
Total System Volume 0.7260249 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 26 in
Total Volume Pumped 7 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:50:52	15.99	5.83	51.39	1.93	35.70	3.38	50.54
Last 5	11:55:52	16.01	5.79	51.90	1.92	35.70	3.53	53.28
Last 5	12:00:52	15.97	5.82	52.09	2.20	35.80	3.61	52.96
Last 5	12:05:52	15.93	5.82	52.30	2.53	35.80	3.69	53.63
Last 5	12:10:53	15.93	5.80	52.68	2.54	35.80	3.72	53.36
Variance 0		-0.04	0.02	0.20			0.08	-0.32
Variance 1		-0.04	-0.00	0.21			0.07	0.67
Variance 2		0.00	-0.01	0.38			0.04	-0.27

Notes

Sampled at 12:10. Cloudy 50's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 10:47:26

Project Information:

Operator Name Hunter Auld
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates
 Site Name Plant Yates AP 2
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 598939
 Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladders Pump
 Tubing Type Poly
 Tubing Diameter .375 in
 Tubing Length 43 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 42.19 ft

Pumping Information:

Final Pumping Rate 55 mL/min
 Total System Volume 1.418902 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 34.9 in
 Total Volume Pumped 2.1 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 3%	+/- 0		+/- 10%	+/- 0
Last 5	10:24:57	15.81	7.25	198.31	0.85	44.00	1.23	-100.45
Last 5	10:29:57	15.89	7.25	198.43	--	44.30	0.82	-111.26
Last 5	10:34:57	15.97	7.26	198.09	0.50	44.70	0.63	-115.61
Last 5	10:39:57	16.01	7.27	197.82	0.50	45.00	0.61	-114.61
Last 5	10:44:57	15.98	7.27	197.23	0.50	45.10	0.56	-111.93
Variance 0		0.09	0.00	-0.34			-0.18	-4.35
Variance 1		0.04	0.01	-0.28			-0.02	1.00
Variance 2		-0.03	0.00	-0.59			-0.05	2.68

Notes

Sampled at 1048 on 2-27-19. Cloudy, 60s.

Grab Samples

Product Name: Low-Flow System
 Date: 2019-02-27 11:00:02

Project Information:

Operator Name: Chris Parker
 Company Name: ACC
 Project Name: Plant Yates - Ash Pond 2
 Site Name: Plant Yates
 Latitude: 33° 27' 46.14"
 Longitude: -84° -53' -52.68"
 Sonde SN: 369370
 Turbidity Make/Model: Hach 2100 Q

Pump Information:

Pump Model/Type: Bladder Pump
 Tubing Type: poly
 Tubing Diameter: .25 in
 Tubing Length: 118 ft
 Pump placement from TOC: 113 ft

Well Information:

Well ID: YGWA-3D
 Well diameter: 2 in
 Well Total Depth: 137.10 ft
 Screen Length: 10 ft
 Depth to Water: 30.62 ft

Pumping Information:

Final Pumping Rate: 200 mL/min
 Total System Volume: 1.624022 L
 Calculated Sample Rate: 300 sec
 Stabilization Drawdown: 2 in
 Total Volume Pumped: 7 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	10:34:53	16.40	7.77	228.32	0.55	30.70	0.48	-43.40
Last 5	10:39:53	16.50	7.53	228.65	0.68	30.70	0.14	-41.73
Last 5	10:44:53	16.54	7.52	228.88	0.73	30.80	0.09	-64.51
Last 5	10:49:53	16.50	7.53	228.95	0.70	30.80	0.09	-63.69
Last 5	10:54:53	16.51	7.55	229.03	0.85	30.80	0.10	-78.72
Variance 0		0.04	-0.01	0.23			-0.05	-22.78
Variance 1		-0.04	0.01	0.07			-0.00	0.82
Variance 2		0.00	0.02	0.08			0.01	-15.03

Notes

Sampled at 11:05. Cloudy 50s

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 12:43:26

Project Information:

Operator Name Chris Parker
Company Name ACC
Project Name Plant Yates - Ash Pond 2
Site Name Plant Yates
Latitude 33° 27' 46.14"
Longitude -84° -53' -52.68"
Sonde SN 369370
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 60 ft
Pump placement from TOC 57 ft

Well Information:

Well ID YGWA-3I
Well diameter 2 in
Well Total Depth 60.0 ft
Screen Length 10 ft
Depth to Water 52.20 ft

Pumping Information:

Final Pumping Rate 180 mL/min
Total System Volume 1.064164 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12 in
Total Volume Pumped 14.7 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:20:33	16.33	7.55	199.62	1.24	53.10	0.55	+/- 0
Last 5	12:25:33	16.37	7.55	198.23	1.03	53.10	0.51	-82.69
Last 5	12:30:33	16.40	7.55	197.11	0.82	53.20	0.47	-82.81
Last 5	12:35:33	16.44	7.54	196.28	0.79	53.20	0.44	-80.74
Last 5	12:40:34	16.46	7.54	195.61	--	--	0.42	-85.18
Variance 0		0.03	0.00	-1.12	--	--	-0.03	-83.50
Variance 1		0.04	-0.01	-0.83	--	--	-0.03	2.07
Variance 2		0.02	0.01	-0.67	--	--	-0.02	-4.44

Notes

Sampled at 12:45. Cloudy 60s. EB 1 here at 12:20 - gloves.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-26 13:07:34

Project Information:

Operator Name Hunter Auld
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates AP 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 598939
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .295 in
Tubing Length 36 ft
Pump placement from TOC 31 ft

Well Information:

Well ID YGWA-14S
Well diameter 2 in
Well Total Depth 35.82 ft
Screen Length 10 ft
Depth to Water 13.63 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.8738567 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.4 in
Total Volume Pumped 6.6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 3%	+/- 0		+/- 0.1%	+/- 0
Last 5	12:40:43	17.99	5.69	53.41	1.20	14.00	7.04	167.44
Last 5	12:45:43	17.83	5.49	52.40	1.00	14.00	6.83	175.16
Last 5	12:55:44	17.63	5.45	51.70	0.50	14.00	6.65	169.16
Last 5	13:00:44	17.90	5.46	51.49	0.35	14.00	6.60	173.41
Last 5	13:05:46	17.69	5.46	51.69	0.30	14.00	6.61	169.84
Variance 0		-0.20	-0.05	-0.70			-0.18	-6.01
Variance 1		0.26	0.01	-0.21			-0.05	4.25
Variance 2		-0.21	-0.00	0.20			0.01	-3.57

Notes

Sampled at 1308 on 2-26-19. Cloudy 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-26 14:38:45

Project Information:

Operator Name Hunter Auld
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates AP 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 598939
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladders Pump
Tubing Type Poly
Tubing Diameter .375 in
Tubing Length 60 ft
Pump placement from TOC 54 ft

Well Information:

Well ID YGWA-30I
Well diameter 2 in
Well Total Depth 59.65 ft
Screen Length 10 ft
Depth to Water 35.83 ft

Pumping Information:

Final Pumping Rate 210 mL/min
Total System Volume 1.788119 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.8 in
Total Volume Pumped 6.9 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:16:27	17.59	5.81	35.57	0.50	35.90	6.97	+/- 0
Last 5	14:21:27	17.54	5.78	35.60	0.46	35.90	6.88	137.26
Last 5	14:26:36	17.52	5.77	35.55	0.40	35.90	6.80	137.87
Last 5	14:31:36	17.54	5.77	35.52	0.20	35.90	6.77	137.30
Last 5	14:36:36	17.54	5.77	35.60	0.30	35.90	6.75	137.67
Variance 0		-0.02	-0.01	-0.04			-0.07	138.21
Variance 1		0.02	-0.00	-0.03			-0.04	-0.57
Variance 2		0.00	-0.00	0.08			-0.02	0.37

Notes

Sampled at 1438 on 2-26-19. Cloudy 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 14:11:00

Project Information:

Operator Name Hunter Auld
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates AP 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 598939
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladders Pump
Tubing Type Poly
Tubing Diameter .375 in
Tubing Length 70 ft
Pump placement from TOC 64.5 ft

Well Information:

Well ID YGWC-26I
Well diameter 2 in
Well Total Depth 69.71 ft
Screen Length 10 ft
Depth to Water 20.03 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 2.005305 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4.4 in
Total Volume Pumped 5.9 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	13:50:12	18.75	5.81	282.66	2.60	20.40	0.42	78.82
Last 5	13:55:12	18.71	5.79	282.05	1.40	20.40	0.20	100.72
Last 5	14:00:12	18.71	5.79	283.88	1.10	20.40	0.14	105.47
Last 5	14:05:12	18.75	5.80	285.00	--	20.40	0.13	102.25
Last 5	14:10:12	18.77	5.79	285.42	1.20	20.40	0.14	104.42
Variance 0		-0.00	-0.00	1.83			-0.06	4.75
Variance 1		0.04	0.01	1.12			-0.01	-3.22
Variance 2		0.03	-0.00	0.42			0.01	2.17

Notes

Sampled at 1412 on 2-27-19. Cloudy, 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 12:58:19

Project Information:

Operator Name Hunter Auld
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates
 Site Name Plant Yates AP 2
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 598939
 Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladders Pump
 Tubing Type Poly
 Tubing Diameter .375 in
 Tubing Length 41 ft
 Pump placement from TOC 35 ft

Well Information:

Well ID YGWC-26S
 Well diameter 2 in
 Well Total Depth 40.10 ft
 Screen Length 10 ft
 Depth to Water 16.90 ft

Pumping Information:

Final Pumping Rate 110 mL/min
 Total System Volume 1.375464 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 10.8 in
 Total Volume Pumped 3.6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 3%	+/- 0		+/- 10%	+/- 0
Last 5 12:35:55	600.03	18.39	5.02	251.32	4.70	17.70	1.80	204.76
Last 5 12:40:55	900.03	18.52	5.00	251.13	2.70	17.70	1.55	202.30
Last 5 12:45:55	1200.02	18.61	5.00	251.16	--	17.75	1.47	197.76
Last 5 12:50:56	1501.02	18.66	5.00	251.27	2.30	17.80	1.41	193.77
Last 5 12:55:59	1804.00	18.66	5.00	251.52	2.40	17.80	1.48	190.89
Variance 0		0.09	0.00	0.02			-0.08	-4.54
Variance 1		0.04	-0.00	0.12			-0.06	-4.00
Variance 2		-0.00	0.00	0.25			0.07	-2.88

Notes

Sampled at 1258 on 2-27-19. Cloudy 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 15:19:31

Project Information:

Operator Name Chris Parker
Company Name ACC
Project Name Plant Yates - Ash Pond 2
Site Name Plant Yates
Latitude 33° 27' 46.14"
Longitude -84° -53' -52.68"
Sonde SN 369370
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 80 ft
Pump placement from TOC 75 ft

Well Information:

Well ID YGWC-271
Well diameter 2 in
Well Total Depth 79.84 ft
Screen Length 10 ft
Depth to Water 22.93 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 1.257218 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:56:38	18.74	6.48	329.60	5.88	23.30	0.77	+/- 0
Last 5	15:01:38	18.65	6.38	337.62	4.11	23.30	0.37	28.79
Last 5	15:06:38	18.89	6.34	340.02	1.97	23.30	0.28	36.47
Last 5	15:11:38	19.09	6.33	339.49	1.64	23.30	0.23	37.12
Last 5	15:16:38	19.31	6.31	340.10	0.95	23.30	0.21	39.24
Variance 0		0.24	-0.04	2.41			-0.09	38.56
Variance 1		0.20	-0.02	-0.54			-0.05	0.65
Variance 2		0.22	-0.01	0.61			-0.02	2.12

Notes

Sampled at 15:20. Cloudy 60s. FB 2 here at 15:00

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 14:15:18

Project Information:

Operator Name Chris Parker
 Company Name ACC
 Project Name Plant Yates - Ash Pond 2
 Site Name Plant Yates
 Latitude 33° 27' 46.14"
 Longitude -84° -53' -52.68"
 Sonde SN 369370
 Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
 Tubing Type poly
 Tubing Diameter .25 in
 Tubing Length 40 ft
 Pump placement from TOC 35 ft

Well Information:

Well ID YGWC-27S
 Well diameter 2 in
 Well Total Depth 40.26 ft
 Screen Length 10 ft
 Depth to Water 22.56 ft

Pumping Information:

Final Pumping Rate 190 mL/min
 Total System Volume 0.8711092 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1 in
 Total Volume Pumped 6.6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5 13:51:20	600.02	18.35	6.58	395.20	1.78	22.60	0.94	219.35
Last 5 13:56:20	900.02	18.35	6.41	399.71	2.21	22.60	0.32	236.97
Last 5 14:01:20	1200.02	18.36	6.33	403.30	2.08	22.60	0.21	221.29
Last 5 14:06:20	1500.01	18.38	6.29	403.64	3.20	22.60	0.19	231.76
Last 5 14:11:20	1800.00	18.43	6.26	402.40	3.44	22.60	0.17	224.43
Variance 0		0.01	-0.08	3.60			-0.11	-15.67
Variance 1		0.02	-0.05	0.33			-0.03	10.46
Variance 2		0.05	-0.03	-1.24			-0.02	-7.32

Notes

Collected at 14:15. Cloudy 60s

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 15:49:27

Project Information:

Operator Name Hunter Auld
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates
 Site Name Plant Yates AP 2
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 598939
 Turbidity Make/Model Hach2100Q

Pump Information:

Pump Model/Type QED Bladders Pump
 Tubing Type Poly
 Tubing Diameter .375 in
 Tubing Length 70 ft
 Pump placement from TOC 65 ft

Well Information:

Well ID YGWC-281
 Well diameter 2 in
 Well Total Depth 69.89 ft
 Screen Length 10 ft
 Depth to Water 20.12 ft

Pumping Information:

Final Pumping Rate 110 mL/min
 Total System Volume 2.005305 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 17.2 in
 Total Volume Pumped 4.7 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	15:27:12	19.91	6.30	346.21	0.40	21.35	0.92	83.98
Last 5	15:32:14	20.04	6.30	347.80	--	21.40	0.73	84.90
Last 5	15:37:14	19.86	6.31	349.96	0.30	21.45	0.92	87.35
Last 5	15:42:15	19.64	6.32	351.90	--	21.50	0.83	89.53
Last 5	15:47:21	19.33	6.32	352.39	0.20	21.55	0.92	89.67
Variance 0		-0.19	0.01	2.16			0.20	2.45
Variance 1		-0.22	0.01	1.94			-0.09	2.18
Variance 2		-0.31	-0.01	0.49			0.09	0.14

Notes

Sampled at 1550 on 2-27-19. Sunny, 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 17:27:11

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates AP 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 596190
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 44 ft
Pump placement from TOC 39 ft

Well Information:

Well ID YGWC-28S
Well diameter 2 in
Well Total Depth 44.85 ft
Screen Length 10 ft
Depth to Water 20.30 ft

Pumping Information:

Final Pumping Rate 200 mL/min
Total System Volume 0.6813906 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6 in
Total Volume Pumped 29 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	17:06:21	19.29	6.35	385.86	5.18	20.80	0.10	+/- 10
Last 5	17:11:21	19.31	6.35	387.18	5.12	20.80	0.10	-99.26
Last 5	17:16:21	19.31	6.36	387.81	5.13	20.80	0.10	-100.33
Last 5	17:21:21	19.28	6.36	386.47	5.07	20.80	0.10	-100.26
Last 5	17:26:21	19.23	6.38	388.13	4.92	20.80	0.10	-99.98
Variance 0		0.00	0.01	0.63			-0.00	-100.69
Variance 1		-0.03	0.00	-1.34			-0.00	0.07
Variance 2		-0.04	0.01	1.66			-0.00	0.28

Notes

Sampled at 17:26. Cloudy 60's. DUP-2 here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-02-27 14:07:48

Project Information:

Operator Name Ryan Walker
Company Name Atlantic Coast Consulting
Project Name Plant Yates
Site Name Plant Yates AP 2
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 596190
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder
Tubing Type poly
Tubing Diameter .17 in
Tubing Length 39 ft
Pump placement from TOC 34 ft

Well Information:

Well ID YGWC-29I
Well diameter 2 in
Well Total Depth 39.46 ft
Screen Length 10 ft
Depth to Water 23.91 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 0.6590735 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 17 in
Total Volume Pumped 5.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:47:06	18.02	6.21	242.17	1.06	25.20	+/- 10%	+/- 10
Last 5	13:52:06	17.95	6.20	242.54	0.96	25.30	0.41	53.04
Last 5	13:57:10	17.94	6.20	242.85	1.08	25.30	0.28	52.69
Last 5	14:02:10	17.98	6.19	242.71	1.27	25.40	0.23	51.98
Last 5	14:07:14	18.03	6.19	242.97	1.02	25.40	0.22	52.10
Variance 0		-0.01	-0.00	0.31			0.20	51.05
Variance 1		0.03	-0.01	-0.14			-0.04	-0.71
Variance 2		0.05	0.00	0.26			-0.02	0.13
							-0.02	-1.06

Notes

Sampled at 14:07. Cloudy 60's.

Grab Samples

April 22, 2019

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

RE: Project: Plant Yates - Ash Pond 2
Pace Project No.: 2616783

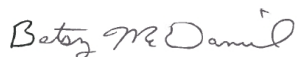
Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2019. 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.

This revised report replaces the report issued on 4/7/2019. The report has been revised to correct sample IDs per consultant request. No other changes have been made to this report.

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

Sincerely,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

Atlanta Certification IDs

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

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SAMPLE SUMMARY

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2616783001	YGWA-1D	Water	03/28/19 11:43	03/29/19 16:05
2616783002	YGWA-1I	Water	03/28/19 15:08	03/29/19 16:05
2616783003	YGWA-2I	Water	03/29/19 11:27	03/29/19 16:05
2616783004	YGWA-14S	Water	03/29/19 13:50	03/29/19 16:05
2616783005	DUP-1	Water	03/29/19 00:00	03/29/19 16:05

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2616783001	YGWA-1D	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616783002	YGWA-1I	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616783003	YGWA-2I	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616783004	YGWA-14S	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616783005	DUP-1	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2616783

Sample: YGWA-1D Lab ID: 2616783001 Collected: 03/28/19 11:43 Received: 03/29/19 16:05 Matrix: Water											
Parameters	Results	Units	Report Limit			MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A											
Arsenic	0.00072J	mg/L	0.0050	0.00057	1		04/03/19 11:25	04/04/19 23:06	7440-38-2		
Barium	0.0082J	mg/L	0.010	0.00078	1		04/03/19 11:25	04/04/19 23:06	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1		04/03/19 11:25	04/04/19 23:06	7440-41-7		
Boron	0.0050J	mg/L	0.040	0.0039	1		04/03/19 11:25	04/04/19 23:06	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1		04/03/19 11:25	04/04/19 23:06	7440-43-9		
Calcium	13.3J	mg/L	25.0	0.69	50		04/03/19 11:25	04/04/19 23:12	7440-70-2	D3	
Chromium	ND	mg/L	0.010	0.0016	1		04/03/19 11:25	04/04/19 23:06	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1		04/03/19 11:25	04/04/19 23:06	7440-48-4		
Lithium	0.013J	mg/L	0.050	0.00097	1		04/03/19 11:25	04/04/19 23:06	7439-93-2		
Molybdenum	0.0092J	mg/L	0.010	0.0019	1		04/03/19 11:25	04/04/19 23:06	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1		04/03/19 11:25	04/04/19 23:06	7782-49-2		
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A											
Mercury	0.000040J	mg/L	0.00050	0.000036	1		04/03/19 07:45	04/03/19 12:41	7439-97-6	B	
2540C Total Dissolved Solids Analytical Method: SM 2540C											
Total Dissolved Solids	87.0	mg/L	25.0	10.0	1			04/04/19 17:41		D6	
300.0 IC Anions 28 Days Analytical Method: EPA 300.0											
Chloride	1.4	mg/L	0.25	0.024	1			04/05/19 07:41	16887-00-6		
Fluoride	0.036J	mg/L	0.30	0.029	1			04/05/19 07:41	16984-48-8		
Sulfate	8.0	mg/L	1.0	0.017	1			04/05/19 07:41	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2616783

Sample: YGWA-11		Lab ID: 2616783002		Collected: 03/28/19 15:08	Received: 03/29/19 16:05	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00057	1	04/03/19 11:25	04/04/19 23:17	7440-38-2		
Barium	0.0082J	mg/L	0.010	0.00078	1	04/03/19 11:25	04/04/19 23:17	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/03/19 11:25	04/04/19 23:17	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	04/03/19 11:25	04/04/19 23:17	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/03/19 11:25	04/04/19 23:17	7440-43-9		
Calcium	2.2	mg/L	0.50	0.014	1	04/03/19 11:25	04/04/19 23:17	7440-70-2		
Chromium	0.0021J	mg/L	0.010	0.0016	1	04/03/19 11:25	04/04/19 23:17	7440-47-3		
Cobalt	0.00091J	mg/L	0.010	0.00052	1	04/03/19 11:25	04/04/19 23:17	7440-48-4		
Lithium	0.0022J	mg/L	0.050	0.00097	1	04/03/19 11:25	04/04/19 23:17	7439-93-2		
Molybdenum	0.0082J	mg/L	0.010	0.0019	1	04/03/19 11:25	04/04/19 23:17	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	04/03/19 11:25	04/04/19 23:17	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	04/03/19 07:45	04/03/19 12:44	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	87.0	mg/L	25.0	10.0	1		04/04/19 17:42			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	1.5	mg/L	0.25	0.024	1		04/05/19 08:54	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		04/05/19 08:54	16984-48-8		
Sulfate	4.3	mg/L	1.0	0.017	1		04/05/19 08:54	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2616783

Sample: YGWA-2I Lab ID: 2616783003 Collected: 03/29/19 11:27 Received: 03/29/19 16:05 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									
Arsenic	0.00063J	mg/L	0.0050	0.00057	1	04/03/19 14:15	04/04/19 16:05	7440-38-2	
Barium	0.0039J	mg/L	0.010	0.00078	1	04/03/19 14:15	04/04/19 16:05	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/03/19 14:15	04/04/19 16:05	7440-41-7	
Boron	0.0065J	mg/L	0.040	0.0039	1	04/03/19 14:15	04/04/19 16:05	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/03/19 14:15	04/04/19 16:05	7440-43-9	
Calcium	23.5J	mg/L	25.0	0.69	50	04/03/19 14:15	04/04/19 16:11	7440-70-2	D3,M6
Chromium	ND	mg/L	0.010	0.0016	1	04/03/19 14:15	04/04/19 16:05	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/03/19 14:15	04/04/19 16:05	7440-48-4	
Lithium	0.0016J	mg/L	0.050	0.00097	1	04/03/19 14:15	04/04/19 16:05	7439-93-2	
Molybdenum	0.0041J	mg/L	0.010	0.0019	1	04/03/19 14:15	04/04/19 16:05	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	04/03/19 14:15	04/04/19 16:05	7782-49-2	
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A									
Mercury	ND	mg/L	0.00050	0.000036	1	04/03/19 07:45	04/03/19 12:46	7439-97-6	
2540C Total Dissolved Solids Analytical Method: SM 2540C									
Total Dissolved Solids	150	mg/L	25.0	10.0	1		04/04/19 17:42		
300.0 IC Anions 28 Days Analytical Method: EPA 300.0									
Chloride	1.2	mg/L	0.25	0.024	1		04/05/19 09:18	16887-00-6	
Fluoride	0.13J	mg/L	0.30	0.029	1		04/05/19 09:18	16984-48-8	
Sulfate	9.0	mg/L	1.0	0.017	1		04/05/19 09:18	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

Sample: YGWA-14S Lab ID: 2616783004 Collected: 03/29/19 13:50 Received: 03/29/19 16:05 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A										
Arsenic	ND	mg/L	0.0050	0.00057	1	04/03/19 14:15	04/04/19 17:11	7440-38-2		
Barium	0.0066J	mg/L	0.010	0.00078	1	04/03/19 14:15	04/04/19 17:11	7440-39-3		
Beryllium	0.00017J	mg/L	0.0030	0.000050	1	04/03/19 14:15	04/04/19 17:11	7440-41-7		
Boron	0.014J	mg/L	0.040	0.0039	1	04/03/19 14:15	04/04/19 17:11	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/03/19 14:15	04/04/19 17:11	7440-43-9		
Calcium	1.1	mg/L	0.50	0.014	1	04/03/19 14:15	04/04/19 17:11	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	04/03/19 14:15	04/04/19 17:11	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	04/03/19 14:15	04/04/19 17:11	7440-48-4		
Lithium	ND	mg/L	0.050	0.00097	1	04/03/19 14:15	04/04/19 17:11	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	04/03/19 14:15	04/04/19 17:11	7439-98-7		
Selenium	0.0019J	mg/L	0.010	0.0014	1	04/03/19 14:15	04/04/19 17:11	7782-49-2		
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A										
Mercury	ND	mg/L	0.00050	0.000036	1	04/03/19 07:45	04/03/19 12:48	7439-97-6		
2540C Total Dissolved Solids Analytical Method: SM 2540C										
Total Dissolved Solids	63.0	mg/L	25.0	10.0	1		04/04/19 17:43			
300.0 IC Anions 28 Days Analytical Method: EPA 300.0										
Chloride	4.2	mg/L	0.25	0.024	1		04/05/19 09:43	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		04/05/19 09:43	16984-48-8		
Sulfate	7.3	mg/L	1.0	0.017	1		04/05/19 09:43	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

Sample: DUP-1		Lab ID: 2616783005		Collected: 03/29/19 00:00	Received: 03/29/19 16:05	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								
Arsenic	ND	mg/L	0.0050	0.00057	1	04/03/19 14:15	04/04/19 17:22	7440-38-2		
Barium	0.0067J	mg/L	0.010	0.00078	1	04/03/19 14:15	04/04/19 17:22	7440-39-3		
Beryllium	0.00017J	mg/L	0.0030	0.000050	1	04/03/19 14:15	04/04/19 17:22	7440-41-7		
Boron	0.014J	mg/L	0.040	0.0039	1	04/03/19 14:15	04/04/19 17:22	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/03/19 14:15	04/04/19 17:22	7440-43-9		
Calcium	1.1	mg/L	0.50	0.014	1	04/03/19 14:15	04/04/19 17:22	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	04/03/19 14:15	04/04/19 17:22	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	04/03/19 14:15	04/04/19 17:22	7440-48-4		
Lithium	ND	mg/L	0.050	0.00097	1	04/03/19 14:15	04/04/19 17:22	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	04/03/19 14:15	04/04/19 17:22	7439-98-7		
Selenium	0.0019J	mg/L	0.010	0.0014	1	04/03/19 14:15	04/04/19 17:22	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.000036	1	04/03/19 07:45	04/03/19 12:51	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	62.0	mg/L	25.0	10.0	1		04/04/19 17:44			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	4.2	mg/L	0.25	0.024	1		04/05/19 10:07	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		04/05/19 10:07	16984-48-8		
Sulfate	7.2	mg/L	1.0	0.017	1		04/05/19 10:07	14808-79-8		

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2616783

QC Batch: 25614 Analysis Method: EPA 7470A
QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
Associated Lab Samples: 2616783001, 2616783002, 2616783003, 2616783004, 2616783005

METHOD BLANK: 115427 Matrix: Water
Associated Lab Samples: 2616783001, 2616783002, 2616783003, 2616783004, 2616783005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.000039J	0.00050	0.000036	04/03/19 12:11	

LABORATORY CONTROL SAMPLE: 115428

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115429 115430

Parameter	Units	2616671001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury	mg/L	0.000039J	0.0025	0.0025	0.0023	0.0023	90	90	75-125	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115556 115557

Parameter	Units	2616482004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0023	0.0024	92	93	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.

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2616783

QC Batch: 25683 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2616783001, 2616783002

METHOD BLANK: 115845 Matrix: Water
Associated Lab Samples: 2616783001, 2616783002

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00057	04/04/19 18:37	
Barium	mg/L	ND	0.010	0.00078	04/04/19 18:37	
Beryllium	mg/L	ND	0.0030	0.000050	04/04/19 18:37	
Boron	mg/L	ND	0.040	0.0039	04/04/19 18:37	
Cadmium	mg/L	ND	0.0010	0.000093	04/04/19 18:37	
Calcium	mg/L	ND	0.50	0.014	04/04/19 18:37	
Chromium	mg/L	ND	0.010	0.0016	04/04/19 18:37	
Cobalt	mg/L	ND	0.010	0.00052	04/04/19 18:37	
Lithium	mg/L	ND	0.050	0.00097	04/04/19 18:37	
Molybdenum	mg/L	ND	0.010	0.0019	04/04/19 18:37	
Selenium	mg/L	ND	0.010	0.0014	04/04/19 18:37	

LABORATORY CONTROL SAMPLE: 115846

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	100	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	100	80-120	
Cadmium	mg/L	0.1	0.10	100	80-120	
Calcium	mg/L	1	0.97	97	80-120	
Chromium	mg/L	0.1	0.10	100	80-120	
Cobalt	mg/L	0.1	0.096	96	80-120	
Lithium	mg/L	0.1	0.10	101	80-120	
Molybdenum	mg/L	0.1	0.10	101	80-120	
Selenium	mg/L	0.1	0.10	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115847 115848

Parameter	Units	2616761004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Spike Conc.	MSD Spike Conc.	MS Result						
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	101	102	75-125	1	20	
Barium	mg/L	0.026	0.1	0.1	0.12	0.13	99	101	75-125	2	20	
Beryllium	mg/L	ND	0.1	0.1	0.092	0.094	92	94	75-125	1	20	
Boron	mg/L	0.89	1	1	1.8	1.8	94	89	75-125	2	20	
Cadmium	mg/L	0.00011J	0.1	0.1	0.10	0.10	100	101	75-125	1	20	
Calcium	mg/L	54.2	1	1	58.6	54.4	439	16	75-125	7	20 M6	
Chromium	mg/L	ND	0.1	0.1	0.098	0.10	98	100	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

Parameter	Units	115847		115848		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2616761004 Result	MS Spike Conc.	MSD Spike Conc.									
Cobalt	mg/L	0.041	0.1	0.1	0.14	0.14	96	98	75-125	2	20		
Lithium	mg/L	0.0076J	0.1	0.1	0.10	0.10	92	93	75-125	2	20		
Molybdenum	mg/L	0.0023J	0.1	0.1	0.11	0.11	105	104	75-125	0	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.11	100	105	75-125	5	20		

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2616783

QC Batch: 25684 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2616783003, 2616783004, 2616783005

METHOD BLANK: 115849 Matrix: Water
Associated Lab Samples: 2616783003, 2616783004, 2616783005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00057	04/04/19 15:54	
Barium	mg/L	ND	0.010	0.00078	04/04/19 15:54	
Beryllium	mg/L	ND	0.0030	0.000050	04/04/19 15:54	
Boron	mg/L	ND	0.040	0.0039	04/04/19 15:54	
Cadmium	mg/L	ND	0.0010	0.000093	04/04/19 15:54	
Calcium	mg/L	ND	0.50	0.014	04/04/19 15:54	
Chromium	mg/L	ND	0.010	0.0016	04/04/19 15:54	
Cobalt	mg/L	ND	0.010	0.00052	04/04/19 15:54	
Lithium	mg/L	ND	0.050	0.00097	04/04/19 15:54	
Molybdenum	mg/L	ND	0.010	0.0019	04/04/19 15:54	
Selenium	mg/L	ND	0.010	0.0014	04/04/19 15:54	

LABORATORY CONTROL SAMPLE: 115850

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	102	80-120	
Barium	mg/L	0.1	0.10	102	80-120	
Beryllium	mg/L	0.1	0.099	99	80-120	
Boron	mg/L	1	0.99	99	80-120	
Cadmium	mg/L	0.1	0.10	101	80-120	
Calcium	mg/L	1	0.99	99	80-120	
Chromium	mg/L	0.1	0.10	101	80-120	
Cobalt	mg/L	0.1	0.099	99	80-120	
Lithium	mg/L	0.1	0.097	97	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.10	103	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115851 115852

Parameter	Units	2616783003 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Spike Conc.	MSD Result						
Arsenic	mg/L	0.00063J	0.1	0.10	0.1	0.10	101	101	75-125	0	20	
Barium	mg/L	0.0039J	0.1	0.10	0.1	0.10	99	100	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.095	0.1	0.097	95	97	75-125	3	20	
Boron	mg/L	0.0065J	1	0.93	1	0.97	92	96	75-125	4	20	
Cadmium	mg/L	ND	0.1	0.10	0.1	0.10	100	102	75-125	2	20	
Calcium	mg/L	23.5J	1	24.8J	1	24.8J	124	132	75-125	0	20	M6
Chromium	mg/L	ND	0.1	0.097	0.1	0.10	97	101	75-125	4	20	

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

Parameter	Units	MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 115851		115852		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		2616783003 Result	MS Spike Conc.	MSD Spike Conc.									
Cobalt	mg/L	ND	0.1	0.1	0.098	0.10	98	99	75-125	2	20		
Lithium	mg/L	0.0016J	0.1	0.1	0.094	0.099	93	98	75-125	5	20		
Molybdenum	mg/L	0.0041J	0.1	0.1	0.11	0.11	104	105	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	102	101	75-125	0	20		

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

QC Batch: 25772 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2616783001, 2616783002, 2616783003, 2616783004, 2616783005

LABORATORY CONTROL SAMPLE: 116265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	403	101	84-108	

SAMPLE DUPLICATE: 116266

Parameter	Units	2616783001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	87.0	115	28	10	D6

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

QC Batch: 25767 Analysis Method: EPA 300.0

QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions

Associated Lab Samples: 2616783001, 2616783002, 2616783003, 2616783004, 2616783005

METHOD BLANK: 116241 Matrix: Water

Associated Lab Samples: 2616783001, 2616783002, 2616783003, 2616783004, 2616783005

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	0.25	0.024	04/05/19 06:52	
Fluoride	mg/L	ND	0.30	0.029	04/05/19 06:52	
Sulfate	mg/L	ND	1.0	0.017	04/05/19 06:52	

LABORATORY CONTROL SAMPLE: 116242

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.0	100	90-110	
Fluoride	mg/L	10	10.1	101	90-110	
Sulfate	mg/L	10	9.9	99	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116243 116244

Parameter	Units	MS		MSD		MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		2616783001 Result	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec					
Chloride	mg/L	1.4	10	10	11.5	11.5	101	101	90-110	0	15		
Fluoride	mg/L	0.036J	10	10	10.5	10.4	104	103	90-110	1	15		
Sulfate	mg/L	8.0	10	10	17.2	17.2	92	92	90-110	0	15		

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QUALIFIERS

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

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.

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

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

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616783

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2616783001	YGWA-1D	EPA 3005A	25683	EPA 6020B	25758
2616783002	YGWA-1I	EPA 3005A	25683	EPA 6020B	25758
2616783003	YGWA-2I	EPA 3005A	25684	EPA 6020B	25759
2616783004	YGWA-14S	EPA 3005A	25684	EPA 6020B	25759
2616783005	DUP-1	EPA 3005A	25684	EPA 6020B	25759
2616783001	YGWA-1D	EPA 7470A	25614	EPA 7470A	25682
2616783002	YGWA-1I	EPA 7470A	25614	EPA 7470A	25682
2616783003	YGWA-2I	EPA 7470A	25614	EPA 7470A	25682
2616783004	YGWA-14S	EPA 7470A	25614	EPA 7470A	25682
2616783005	DUP-1	EPA 7470A	25614	EPA 7470A	25682
2616783001	YGWA-1D	SM 2540C	25772		
2616783002	YGWA-1I	SM 2540C	25772		
2616783003	YGWA-2I	SM 2540C	25772		
2616783004	YGWA-14S	SM 2540C	25772		
2616783005	DUP-1	SM 2540C	25772		
2616783001	YGWA-1D	EPA 300.0	25767		
2616783002	YGWA-1I	EPA 300.0	25767		
2616783003	YGWA-2I	EPA 300.0	25767		
2616783004	YGWA-14S	EPA 300.0	25767		
2616783005	DUP-1	EPA 300.0	25767		

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 1 OF 1

CLIENT NAME:
 Georgia Power

CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 404-506-7239

REPORT TO: Joju Abraham

REQUESTED COMPLETION DATE: PO #:

PROJECT NAME/STATE: Plant Yates - Ash Pond 2

PROJECT #:

Collection DATE	Collection TIME	MATRIX CODE*	C O M P	SAMPLE IDENTIFICATION
3-28-19	1143	GW	✓	YGWA-1D
3-28-19	1506	GW	✓	YGWA-1E
3-29-19	1127	GW	✓	YGWA-2I
3-29-19	1350	GW	✓	YGWA-14S
3-29-19	---	GW	✓	Dup-1

CONTAINER TYPE	ANALYSIS REQUESTED	DATE/TIME	DATE/TIME
3	7	3-29-19	1605
3	3		

CONTAINER TYPE	ANALYSIS REQUESTED	DATE/TIME	DATE/TIME
3	7	3-29-19	1605
3	3		

CONTAINER TYPE	ANALYSIS REQUESTED	DATE/TIME	DATE/TIME
3	7	3-29-19	1605
3	3		

CONTAINER TYPE: P - PLASTIC, A - AMBER GLASS, G - CLEAR GLASS, V - VOA VIAL, S - STERILE, O - OTHER

PRESERVATION: 1 - HCl, ≤6°C, 2 - H₂SO₄, ≤6°C, 3 - HNO₃, 4 - NaOH, ≤6°C, 5 - NaOH/ZnAc, ≤6°C, 6 - Na₂S₂O₃, ≤6°C, 7 - ≤6°C not frozen

***MATRIX CODES:** DW - DRINKING WATER, S - SOIL, WW - WASTEWATER, SL - SLUDGE, GW - GROUNDWATER, SD - SOLID, SW - SURFACE WATER, A - AIR, ST - STORM WATER, L - LIQUID, W - WATER, P - PRODUCT

REMARKS/ADDITIONAL INFORMATION: APP III plus detected APP IV

LAB #: FOR LAB USE ONLY

Entered into LIMS: W0#: 2616783

2616783

RELINQUISHED BY: *John Del* DATE/TIME: 3-29-19/1605

RELINQUISHED BY: DATE/TIME:

SAMPLE SHIPPED VIA: UPS, FED-EX, USPS, COURIER, CLIENT, OTHER

Temperature: Min: 2°, Max: 2°

APP III, plus Detected APP IV

Detected APP IV: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lithium, Mercury, Molybdenum, Selenium, Radium

Blinded Detections: Listed above or included with App III

Yates Ash Pond 2 - Blank COCs.xlsx



Sample Condition Upon Receipt

WO#: 2616783

Client Name: Georgia Power CCR

PM: BM

Due Date: 04/05/19

CLIENT: GAPower-CCR

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

Thermometer Used 083

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

Cooler Temperature 2C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 3/29/19 JW

Temp should be above freezing to 6°C

Comments:

Table with 16 rows of checklist items including Chain of Custody Present, Samples Arrived within Hold Time, Short Hold Time Analysis, Rush Turn Around Time Requested, Sufficient Volume, Correct Containers Used, Containers Intact, Filtered volume received for Dissolved tests, Sample Labels match COC, All containers needing preservation have been checked, Samples checked for dechlorination, Headspace in VOA Vials, Trip Blank Present, Pace Trip Blank Lot #.

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)

April 26, 2019

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

RE: Project: Plant Yates - Ash Pond 2
Pace Project No.: 2616784

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on March 29, 2019. 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,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2616784

Pennsylvania Certification IDs

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

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SAMPLE SUMMARY

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2616784001	YGWA-1D	Water	03/28/19 11:43	03/29/19 16:05
2616784002	YGWA-1I	Water	03/28/19 15:08	03/29/19 16:05
2616784003	YGWA-2I	Water	03/29/19 11:27	03/29/19 16:05
2616784004	YGWA-14S	Water	03/29/19 13:50	03/29/19 16:05
2616784005	DUP-1	Water	03/29/19 00:00	03/29/19 16:05

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2616784001	YGWA-1D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616784002	YGWA-1I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616784003	YGWA-2I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616784004	YGWA-14S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616784005	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

Sample: YGWA-1D **Lab ID: 2616784001** Collected: 03/28/19 11:43 Received: 03/29/19 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.915 ± 0.382 (0.386) C:91% T:NA	pCi/L	04/12/19 09:46	13982-63-3	
Radium-228	EPA 9320	0.219 ± 0.432 (0.951) C:70% T:76%	pCi/L	04/15/19 14:45	15262-20-1	
Total Radium	Total Radium Calculation	1.13 ± 0.814 (1.34)	pCi/L	04/17/19 13:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

Sample: YGWA-1I **Lab ID: 2616784002** Collected: 03/28/19 15:08 Received: 03/29/19 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.116 ± 0.205 (0.463) C:91% T:NA	pCi/L	04/12/19 09:46	13982-63-3	
Radium-228	EPA 9320	0.00934 ± 0.359 (0.830) C:71% T:85%	pCi/L	04/15/19 14:45	15262-20-1	
Total Radium	Total Radium Calculation	0.125 ± 0.564 (1.29)	pCi/L	04/17/19 13:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

Sample: YGWA-2I **Lab ID: 2616784003** Collected: 03/29/19 11:27 Received: 03/29/19 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.0665 ± 0.153 (0.365) C:95% T:NA	pCi/L	04/12/19 09:46	13982-63-3	
Radium-228	EPA 9320	0.157 ± 0.408 (0.910) C:73% T:79%	pCi/L	04/15/19 14:46	15262-20-1	
Total Radium	Total Radium Calculation	0.224 ± 0.561 (1.28)	pCi/L	04/17/19 13:15	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

Sample: YGWA-14S **Lab ID: 2616784004** Collected: 03/29/19 13:50 Received: 03/29/19 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	-0.00815 ± 0.175 (0.486) C:95% T:NA	pCi/L	04/12/19 09:46	13982-63-3	
Radium-228	EPA 9320	-0.248 ± 0.421 (1.03) C:73% T:67%	pCi/L	04/15/19 14:46	15262-20-1	
Total Radium	Total Radium Calculation	0.000 ± 0.596 (1.52)	pCi/L	04/17/19 13:15	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

Sample: DUP-1 **Lab ID: 2616784005** Collected: 03/29/19 00:00 Received: 03/29/19 16:05 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.108 ± 0.171 (0.375) C:97% T:NA	pCi/L	04/12/19 09:46	13982-63-3	
Radium-228	EPA 9320	0.235 ± 0.431 (0.942) C:74% T:86%	pCi/L	04/15/19 14:45	15262-20-1	
Total Radium	Total Radium Calculation	0.343 ± 0.602 (1.32)	pCi/L	04/17/19 13:15	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

QC Batch: 337392 Analysis Method: EPA 9315

QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium

Associated Lab Samples: 2616784001, 2616784002, 2616784003, 2616784004, 2616784005

METHOD BLANK: 1642069 Matrix: Water

Associated Lab Samples: 2616784001, 2616784002, 2616784003, 2616784004, 2616784005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.117 ± 0.178 (0.382) C:94% T:NA	pCi/L	04/12/19 08:07	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

QC Batch: 337074

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2616784001, 2616784002, 2616784003, 2616784004, 2616784005

METHOD BLANK: 1640714

Matrix: Water

Associated Lab Samples: 2616784001, 2616784002, 2616784003, 2616784004, 2616784005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.217 ± 0.385 (0.842) C:74% T:77%	pCi/L	04/15/19 14:45	

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

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QUALIFIERS

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

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.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2616784

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2616784001	YGWA-1D	EPA 9315	337392		
2616784002	YGWA-1I	EPA 9315	337392		
2616784003	YGWA-2I	EPA 9315	337392		
2616784004	YGWA-14S	EPA 9315	337392		
2616784005	DUP-1	EPA 9315	337392		
2616784001	YGWA-1D	EPA 9320	337074		
2616784002	YGWA-1I	EPA 9320	337074		
2616784003	YGWA-2I	EPA 9320	337074		
2616784004	YGWA-14S	EPA 9320	337074		
2616784005	DUP-1	EPA 9320	337074		
2616784001	YGWA-1D	Total Radium Calculation	338683		
2616784002	YGWA-1I	Total Radium Calculation	338683		
2616784003	YGWA-2I	Total Radium Calculation	338683		
2616784004	YGWA-14S	Total Radium Calculation	338683		
2616784005	DUP-1	Total Radium Calculation	338683		

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: _____ OF _____

CLIENT NAME: Georgia Power
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 404-506-7239
 REPORT TO: Joju Abraham
 REQUESTED COMPLETION DATE: _____
 PROJECT NAME/STATE: Plant Yates - Ash Pond 2

CONTAINER TYPE: P - PLASTIC
 A - AMBER GLASS
 G - CLEAR GLASS
 V - VOA VIAL
 S - STERILE
 O - OTHER

PRESERVATION: 1 - HCl, ≤6°C
 2 - H₂SO₄, ≤6°C
 3 - HNO₃
 4 - NaOH, ≤6°C
 5 - NaOH/ZnAc, ≤6°C
 6 - Na₂S₂O₃, ≤6°C
 7 - ≤6°C not frozen

CONTAINER TYPE: P - PLASTIC
 A - AMBER GLASS
 G - CLEAR GLASS
 V - VOA VIAL
 S - STERILE
 O - OTHER

PRESERVATION: 1 - HCl, ≤6°C
 2 - H₂SO₄, ≤6°C
 3 - HNO₃
 4 - NaOH, ≤6°C
 5 - NaOH/ZnAc, ≤6°C
 6 - Na₂S₂O₃, ≤6°C
 7 - ≤6°C not frozen

Collection DATE	Collection TIME	MATRIX CODE*	C O M P	G R A B	SAMPLE IDENTIFICATION	ANALYSIS REQUESTED				CONTAINER TYPE	P	P	P	P	ANALYSIS REQUESTED	CONTAINER TYPE	PRESERVATION	REMARKS/ADDITIONAL INFORMATION
						Metals App. III (EPA 6020/7470)	Boron, Calcium	Cl, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)	Detected App IV (See List below)									
3-26-19	1143	GW	✓		YGWA-1D	✓	✓	✓	✓									APP III plus detected APP IV
3-28-19	1506	GW	✓		YGWA-1E	✓	✓	✓	✓									
3-29-19	1127	GW	✓		YGWA-2I	✓	✓	✓	✓									
3-29-19	1350	GW	✓		YGWA-14S	✓	✓	✓	✓									
3-29-19	---	GW	✓		Dup-1	✓	✓	✓	✓									

SAMPLED BY AND TITLE: Hunter Field
 RECEIVED BY: _____
 DATE/TIME: 3-29-19
 DATE/TIME: _____
 RELINQUISHED BY: *Atto Del*
 DATE/TIME: 3-29-19/1605
 DATE/TIME: _____

RECEIVED BY LAB: *Services World*
 pH checked: Yes No NA Ice Yes No NA
 DATE/TIME: 3/29/19 1605
 Temperature: Min: Max: 2°
 SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER OTHER
 Custody Seal: Intact Broken (Not Present)
 # of Coolers: _____
 Cooler ID: _____

APP III, plus Detected APP IV

Detected APP IV: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lithium, Mercury, Molybdenum, Selenium, Radium

Bolded Detections: Listed above or included with App III

Yates Ash Pond 2 - Blank COCs.xlsx

LAB #: _____ FOR LAB USE ONLY

Entered into LIMS: _____

W0#: 2616784

2616784



Sample Condition Upon Receipt

WO#: 2616784

Client Name: Georgia Power CCR

PM: BM
CLIENT: GAPower-CCR

Due Date: 04/26/19

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

Thermometer Used 083

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

Cooler Temperature 2C

Biological Tissue is Frozen: Yes No

Date and Initials of person examining contents: 3/29/19 JW

Temp should be above freezing to 6°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>WT</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)

April 10, 2019

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

RE: Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 02, 2019. 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,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Atlanta Certification IDs

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

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SAMPLE SUMMARY

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2616901001	YGWA-3I	Water	04/01/19 15:35	04/02/19 17:10
2616901002	YGWA-3D	Water	04/01/19 12:16	04/02/19 17:10
2616901003	YGWA-30I	Water	04/01/19 13:05	04/02/19 17:10
2616901004	YGWC-26S	Water	04/02/19 12:03	04/02/19 17:10
2616901005	YGWC-26I	Water	04/02/19 13:53	04/02/19 17:10
2616901006	YGWC-27S	Water	04/01/19 15:40	04/02/19 17:10
2616901007	YGWC-27I	Water	04/01/19 16:35	04/02/19 17:10
2616901008	YGWC-28S	Water	04/02/19 13:00	04/02/19 17:10
2616901009	YGWC-28I	Water	04/01/19 16:15	04/02/19 17:10
2616901010	YGWC-29I	Water	04/01/19 14:46	04/02/19 17:10
2616901011	EB-1-4-1-19	Water	04/01/19 12:45	04/02/19 17:10
2616901012	EB-2-4-2-19	Water	04/02/19 10:25	04/02/19 17:10
2616901013	Dup-2	Water	04/02/19 00:00	04/02/19 17:10
2616901014	FB-1-4-1-19	Water	04/01/19 14:35	04/02/19 17:10
2616901015	FB-2-4-2-19	Water	04/02/19 10:40	04/02/19 17:10

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SAMPLE ANALYTE COUNT

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2616901001	YGWA-3I	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616901002	YGWA-3D	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616901003	YGWA-30I	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616901004	YGWC-26S	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616901005	YGWC-26I	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616901006	YGWC-27S	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616901007	YGWC-27I	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616901008	YGWC-28S	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616901009	YGWC-28I	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
2616901010	YGWC-29I	EPA 6020B	CSW	11

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SAMPLE ANALYTE COUNT

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2616901011	EB-1-4-1-19	EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3
		EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
2616901012	EB-2-4-2-19	EPA 300.0	RLC	3
		EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
2616901013	Dup-2	EPA 300.0	RLC	3
		EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
2616901014	FB-1-4-1-19	EPA 300.0	RLC	3
		EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
2616901015	FB-2-4-2-19	EPA 300.0	RLC	3
		EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	RLC	1
		EPA 300.0	RLC	3

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Sample: YGWA-3I		Lab ID: 2616901001		Collected: 04/01/19 15:35	Received: 04/02/19 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 18:57	7440-38-2		
Barium	0.0030J	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 18:57	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 18:57	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 18:57	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 18:57	7440-43-9		
Calcium	20.4J	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 19:03	7440-70-2	D3	
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 18:57	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 18:57	7440-48-4		
Lithium	0.013J	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 18:57	7439-93-2		
Molybdenum	0.0021J	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 18:57	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 18:57	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000084J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 17:58	7439-97-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	19.0J	mg/L	25.0	10.0	1		04/04/19 17:45			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	1.1	mg/L	0.25	0.024	1		04/06/19 01:34	16887-00-6		
Fluoride	0.10J	mg/L	0.30	0.029	1		04/06/19 01:34	16984-48-8		
Sulfate	8.5	mg/L	1.0	0.017	1		04/06/19 01:34	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Sample: YGWA-3D		Lab ID: 2616901002		Collected: 04/01/19 12:16	Received: 04/02/19 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 19:09	7440-38-2		
Barium	0.0064J	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 19:09	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 19:09	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 19:09	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 19:09	7440-43-9		
Calcium	30.1	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 19:15	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 19:09	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 19:09	7440-48-4		
Lithium	0.021J	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 19:09	7439-93-2		
Molybdenum	0.012	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 19:09	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 19:09	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000096J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:00	7439-97-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	149	mg/L	25.0	10.0	1		04/04/19 17:46			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	1.2	mg/L	0.25	0.024	1		04/06/19 01:56	16887-00-6		
Fluoride	0.45	mg/L	0.30	0.029	1		04/06/19 01:56	16984-48-8		
Sulfate	7.2	mg/L	1.0	0.017	1		04/06/19 01:56	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Sample: YGWA-30I		Lab ID: 2616901003		Collected: 04/01/19 13:05	Received: 04/02/19 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 19:32	7440-38-2		
Barium	0.0072J	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 19:32	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 19:32	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 19:32	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 19:32	7440-43-9		
Calcium	1.3	mg/L	0.50	0.014	1	04/05/19 14:47	04/08/19 19:32	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 19:32	7440-47-3		
Cobalt	0.022	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 19:32	7440-48-4		
Lithium	0.0010J	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 19:32	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 19:32	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 19:32	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000082J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:03	7439-97-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	54.0	mg/L	25.0	10.0	1		04/04/19 17:46			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	1.7	mg/L	0.25	0.024	1		04/06/19 02:18	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		04/06/19 02:18	16984-48-8		
Sulfate	0.96J	mg/L	1.0	0.017	1		04/06/19 02:18	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Sample: YGWC-26S		Lab ID: 2616901004		Collected: 04/02/19 12:03	Received: 04/02/19 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 19:43	7440-38-2		
Barium	0.027	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 19:43	7440-39-3		
Beryllium	0.00015J	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 19:43	7440-41-7		
Boron	0.63	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 19:43	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 19:43	7440-43-9		
Calcium	11.9J	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 19:49	7440-70-2	D3,M6, R1	
Chromium	0.0030J	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 19:43	7440-47-3		
Cobalt	0.0022J	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 19:43	7440-48-4		
Lithium	ND	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 19:43	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 19:43	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 19:43	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000066J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:10	7439-97-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	224	mg/L	25.0	10.0	1		04/08/19 15:28			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	13.5	mg/L	0.25	0.024	1		04/06/19 02:40	16887-00-6		
Fluoride	ND	mg/L	0.30	0.029	1		04/06/19 02:40	16984-48-8		
Sulfate	94.5	mg/L	10.0	0.17	10		04/06/19 10:59	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Sample: YGWC-26I		Lab ID: 2616901005		Collected: 04/02/19 13:53		Received: 04/02/19 17:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 20:35	7440-38-2	
Barium	0.065	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 20:35	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 20:35	7440-41-7	
Boron	0.90	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 20:35	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 20:35	7440-43-9	
Calcium	16.1J	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 20:41	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 20:35	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 20:35	7440-48-4	
Lithium	0.0064J	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 20:35	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 20:35	7439-98-7	
Selenium	0.0017J	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 20:35	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000051J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:12	7439-97-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	223	mg/L	25.0	10.0	1		04/08/19 15:28		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	17.9	mg/L	0.25	0.024	1		04/06/19 03:02	16887-00-6	
Fluoride	0.071J	mg/L	0.30	0.029	1		04/06/19 03:02	16984-48-8	
Sulfate	77.6	mg/L	10.0	0.17	10		04/06/19 11:21	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Sample: YGWC-27S		Lab ID: 2616901006		Collected: 04/01/19 15:40	Received: 04/02/19 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 20:46	7440-38-2		
Barium	0.099	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 20:46	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 20:46	7440-41-7		
Boron	1.4	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 20:46	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 20:46	7440-43-9		
Calcium	38.0	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 20:52	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 20:46	7440-47-3		
Cobalt	0.0023J	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 20:46	7440-48-4		
Lithium	ND	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 20:46	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 20:46	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 20:46	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000041J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:14	7439-97-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	221	mg/L	25.0	10.0	1		04/04/19 17:47			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	19.7	mg/L	0.25	0.024	1		04/06/19 03:24	16887-00-6		
Fluoride	0.088J	mg/L	0.30	0.029	1		04/06/19 03:24	16984-48-8		
Sulfate	18.3	mg/L	1.0	0.017	1		04/06/19 03:24	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Sample: YGWC-271		Lab ID: 2616901007		Collected: 04/01/19 16:35	Received: 04/02/19 17:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 20:58	7440-38-2	
Barium	0.066	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 20:58	7440-39-3	
Beryllium	0.00022J	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 20:58	7440-41-7	
Boron	2.4	mg/L	2.0	0.20	50	04/05/19 14:47	04/08/19 21:03	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 20:58	7440-43-9	
Calcium	27.4	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 21:03	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 20:58	7440-47-3	
Cobalt	0.025	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 20:58	7440-48-4	
Lithium	0.0082J	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 20:58	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 20:58	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 20:58	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000045J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:17	7439-97-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	198	mg/L	25.0	10.0	1		04/04/19 17:47		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	14.2	mg/L	0.25	0.024	1		04/06/19 05:13	16887-00-6	
Fluoride	0.034J	mg/L	0.30	0.029	1		04/06/19 05:13	16984-48-8	
Sulfate	4.1	mg/L	1.0	0.017	1		04/06/19 05:13	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Sample: YGWC-28S		Lab ID: 2616901008		Collected: 04/02/19 13:00	Received: 04/02/19 17:10	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							
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 21:09	7440-38-2	
Barium	0.20	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 21:09	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 21:09	7440-41-7	
Boron	2.9	mg/L	2.0	0.20	50	04/05/19 14:47	04/08/19 21:15	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 21:09	7440-43-9	
Calcium	25.7	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 21:15	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 21:09	7440-47-3	
Cobalt	0.0011J	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 21:09	7440-48-4	
Lithium	ND	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 21:09	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 21:09	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 21:09	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:19	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		04/08/19 15:28		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	19.5	mg/L	0.25	0.024	1		04/06/19 05:34	16887-00-6	
Fluoride	0.14J	mg/L	0.30	0.029	1		04/06/19 05:34	16984-48-8	
Sulfate	2.4	mg/L	1.0	0.017	1		04/06/19 05:34	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Sample: YGWC-28I		Lab ID: 2616901009		Collected: 04/01/19 16:15	Received: 04/02/19 17:10	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 21:21	7440-38-2	
Barium	0.088	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 21:21	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 21:21	7440-41-7	
Boron	2.7	mg/L	2.0	0.20	50	04/05/19 14:47	04/08/19 21:26	7440-42-8	
Cadmium	0.00043J	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 21:21	7440-43-9	
Calcium	33.8	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 21:26	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 21:21	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 21:21	7440-48-4	
Lithium	0.0065J	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 21:21	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 21:21	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 21:21	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:22	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	238	mg/L	25.0	10.0	1		04/04/19 17:47		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	17.2	mg/L	0.25	0.024	1		04/06/19 06:17	16887-00-6	
Fluoride	0.078J	mg/L	0.30	0.029	1		04/06/19 06:17	16984-48-8	
Sulfate	8.2	mg/L	1.0	0.017	1		04/06/19 06:17	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Sample: YGWC-29I		Lab ID: 2616901010		Collected: 04/01/19 14:46		Received: 04/02/19 17:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 21:44	7440-38-2	
Barium	0.063	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 21:44	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 21:44	7440-41-7	
Boron	0.85	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 21:44	7440-42-8	
Cadmium	0.00022J	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 21:44	7440-43-9	
Calcium	11.9J	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 21:49	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 21:44	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 21:44	7440-48-4	
Lithium	0.0052J	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 21:44	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 21:44	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 21:44	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000039J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:24	7439-97-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	147	mg/L	25.0	10.0	1		04/04/19 17:48		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	13.1	mg/L	0.25	0.024	1		04/06/19 06:38	16887-00-6	
Fluoride	0.059J	mg/L	0.30	0.029	1		04/06/19 06:38	16984-48-8	
Sulfate	30.4	mg/L	1.0	0.017	1		04/06/19 06:38	14808-79-8	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Sample: EB-1-4-1-19 Lab ID: 2616901011 Collected: 04/01/19 12:45 Received: 04/02/19 17:10 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A										
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 21:55	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 21:55	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 21:55	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 21:55	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 21:55	7440-43-9		
Calcium	0.087J	mg/L	0.50	0.014	1	04/05/19 14:47	04/08/19 21:55	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 21:55	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 21:55	7440-48-4		
Lithium	ND	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 21:55	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 21:55	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 21:55	7782-49-2		
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A										
Mercury	0.000066J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:26	7439-97-6	B	
2540C Total Dissolved Solids Analytical Method: SM 2540C										
Total Dissolved Solids	11.0J	mg/L	25.0	10.0	1		04/04/19 17:48			
300.0 IC Anions 28 Days Analytical Method: EPA 300.0										
Chloride	0.090J	mg/L	0.25	0.024	1		04/06/19 06:59	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		04/06/19 06:59	16984-48-8		
Sulfate	0.035J	mg/L	1.0	0.017	1		04/06/19 06:59	14808-79-8	B	

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Sample: EB-2-4-2-19		Lab ID: 2616901012		Collected: 04/02/19 10:25	Received: 04/02/19 17:10	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.25	0.028	50	04/05/19 14:47	04/08/19 22:01	7440-38-2		
Barium	ND	mg/L	0.50	0.039	50	04/05/19 14:47	04/08/19 22:01	7440-39-3		
Beryllium	ND	mg/L	0.15	0.0025	50	04/05/19 14:47	04/08/19 22:01	7440-41-7		
Boron	ND	mg/L	2.0	0.20	50	04/05/19 14:47	04/08/19 22:01	7440-42-8		
Cadmium	ND	mg/L	0.050	0.0046	50	04/05/19 14:47	04/08/19 22:01	7440-43-9		
Calcium	ND	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 22:01	7440-70-2		
Chromium	ND	mg/L	0.50	0.078	50	04/05/19 14:47	04/08/19 22:01	7440-47-3		
Cobalt	ND	mg/L	0.50	0.026	50	04/05/19 14:47	04/08/19 22:01	7440-48-4		
Lithium	ND	mg/L	2.5	0.049	50	04/05/19 14:47	04/08/19 22:01	7439-93-2		
Molybdenum	ND	mg/L	0.50	0.097	50	04/05/19 14:47	04/08/19 22:01	7439-98-7		
Selenium	ND	mg/L	0.50	0.068	50	04/05/19 14:47	04/08/19 22:01	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	0.000069J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:29	7439-97-6	B	
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	590	mg/L	25.0	10.0	1		04/08/19 15:29			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.11J	mg/L	0.25	0.024	1		04/06/19 07:21	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		04/06/19 07:21	16984-48-8		
Sulfate	0.026J	mg/L	1.0	0.017	1		04/06/19 07:21	14808-79-8	B	

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Sample: Dup-2		Lab ID: 2616901013		Collected: 04/02/19 00:00		Received: 04/02/19 17:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 22:06	7440-38-2	
Barium	0.065	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 22:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 22:06	7440-41-7	
Boron	0.89	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 22:06	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 22:06	7440-43-9	
Calcium	15.8J	mg/L	25.0	0.69	50	04/05/19 14:47	04/08/19 22:12	7440-70-2	D3
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 22:06	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 22:06	7440-48-4	
Lithium	0.0062J	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 22:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 22:06	7439-98-7	
Selenium	0.0021J	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 22:06	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000086J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:31	7439-97-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	215	mg/L	25.0	10.0	1		04/08/19 15:29		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	17.9	mg/L	0.25	0.024	1		04/06/19 07:43	16887-00-6	
Fluoride	0.30J	mg/L	0.30	0.029	1		04/06/19 07:43	16984-48-8	
Sulfate	80.5	mg/L	10.0	0.17	10		04/08/19 20:23	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Sample: FB-1-4-1-19		Lab ID: 2616901014		Collected: 04/01/19 14:35		Received: 04/02/19 17:10		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 22:18	7440-38-2	
Barium	ND	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 22:18	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 22:18	7440-41-7	
Boron	ND	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 22:18	7440-42-8	
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 22:18	7440-43-9	
Calcium	ND	mg/L	0.50	0.014	1	04/05/19 14:47	04/08/19 22:18	7440-70-2	
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 22:18	7440-47-3	
Cobalt	ND	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 22:18	7440-48-4	
Lithium	ND	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 22:18	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 22:18	7439-98-7	
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 22:18	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	0.000050J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:38	7439-97-6	B
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	20.0J	mg/L	25.0	10.0	1		04/04/19 17:49		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	0.094J	mg/L	0.25	0.024	1		04/06/19 08:04	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		04/06/19 08:04	16984-48-8	
Sulfate	0.039J	mg/L	1.0	0.017	1		04/06/19 08:04	14808-79-8	B

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ANALYTICAL RESULTS

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Sample: FB-2-4-2-19 Lab ID: 2616901015 Collected: 04/02/19 10:40 Received: 04/02/19 17:10 Matrix: Water										
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS Analytical Method: EPA 6020B Preparation Method: EPA 3005A										
Arsenic	ND	mg/L	0.0050	0.00057	1	04/05/19 14:47	04/08/19 22:24	7440-38-2		
Barium	ND	mg/L	0.010	0.00078	1	04/05/19 14:47	04/08/19 22:24	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000050	1	04/05/19 14:47	04/08/19 22:24	7440-41-7		
Boron	ND	mg/L	0.040	0.0039	1	04/05/19 14:47	04/08/19 22:24	7440-42-8		
Cadmium	ND	mg/L	0.0010	0.000093	1	04/05/19 14:47	04/08/19 22:24	7440-43-9		
Calcium	ND	mg/L	0.50	0.014	1	04/05/19 14:47	04/08/19 22:24	7440-70-2		
Chromium	ND	mg/L	0.010	0.0016	1	04/05/19 14:47	04/08/19 22:24	7440-47-3		
Cobalt	ND	mg/L	0.010	0.00052	1	04/05/19 14:47	04/08/19 22:24	7440-48-4		
Lithium	ND	mg/L	0.050	0.00097	1	04/05/19 14:47	04/08/19 22:24	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.0019	1	04/05/19 14:47	04/08/19 22:24	7439-98-7		
Selenium	ND	mg/L	0.010	0.0014	1	04/05/19 14:47	04/08/19 22:24	7782-49-2		
7470 Mercury Analytical Method: EPA 7470A Preparation Method: EPA 7470A										
Mercury	0.000064J	mg/L	0.00050	0.000036	1	04/04/19 13:48	04/05/19 18:41	7439-97-6	B	
2540C Total Dissolved Solids Analytical Method: SM 2540C										
Total Dissolved Solids	ND	mg/L	25.0	10.0	1		04/08/19 15:30			
300.0 IC Anions 28 Days Analytical Method: EPA 300.0										
Chloride	0.26	mg/L	0.25	0.024	1		04/06/19 08:26	16887-00-6	B	
Fluoride	ND	mg/L	0.30	0.029	1		04/06/19 08:26	16984-48-8		
Sulfate	0.026J	mg/L	1.0	0.017	1		04/06/19 08:26	14808-79-8	B	

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QUALITY CONTROL DATA

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

QC Batch: 25770 Analysis Method: EPA 7470A
 QC Batch Method: EPA 7470A Analysis Description: 7470 Mercury
 Associated Lab Samples: 2616901001, 2616901002, 2616901003, 2616901004, 2616901005, 2616901006, 2616901007, 2616901008, 2616901009, 2616901010, 2616901011, 2616901012, 2616901013, 2616901014, 2616901015

METHOD BLANK: 116256 Matrix: Water
 Associated Lab Samples: 2616901001, 2616901002, 2616901003, 2616901004, 2616901005, 2616901006, 2616901007, 2616901008, 2616901009, 2616901010, 2616901011, 2616901012, 2616901013, 2616901014, 2616901015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	0.00013J	0.00050	0.000036	04/05/19 17:41	

LABORATORY CONTROL SAMPLE: 116257

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: 116258 116259

Parameter	Units	2616881001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	mg/L	0.000089J	0.0025	0.0025	0.0021	0.0019	82	71	75-125	13	20	M1

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QUALITY CONTROL DATA

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

QC Batch: 25905 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2616901001, 2616901002, 2616901003, 2616901004, 2616901005, 2616901006, 2616901007, 2616901008, 2616901009, 2616901010, 2616901011, 2616901012, 2616901013, 2616901014, 2616901015

METHOD BLANK: 116813 Matrix: Water
Associated Lab Samples: 2616901001, 2616901002, 2616901003, 2616901004, 2616901005, 2616901006, 2616901007, 2616901008, 2616901009, 2616901010, 2616901011, 2616901012, 2616901013, 2616901014, 2616901015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00057	04/08/19 18:23	
Barium	mg/L	ND	0.010	0.00078	04/08/19 18:23	
Beryllium	mg/L	ND	0.0030	0.000050	04/08/19 18:23	
Boron	mg/L	ND	0.040	0.0039	04/08/19 18:23	
Cadmium	mg/L	ND	0.0010	0.000093	04/08/19 18:23	
Calcium	mg/L	ND	0.50	0.014	04/08/19 18:23	
Chromium	mg/L	ND	0.010	0.0016	04/08/19 18:23	
Cobalt	mg/L	ND	0.010	0.00052	04/08/19 18:23	
Lithium	mg/L	ND	0.050	0.00097	04/08/19 18:23	
Molybdenum	mg/L	ND	0.010	0.0019	04/08/19 18:23	
Selenium	mg/L	ND	0.010	0.0014	04/08/19 18:23	

LABORATORY CONTROL SAMPLE: 116814

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.10	103	80-120	
Barium	mg/L	0.1	0.10	103	80-120	
Beryllium	mg/L	0.1	0.10	101	80-120	
Boron	mg/L	1	1.0	105	80-120	
Cadmium	mg/L	0.1	0.11	109	80-120	
Calcium	mg/L	1	1.0	104	80-120	
Chromium	mg/L	0.1	0.11	108	80-120	
Cobalt	mg/L	0.1	0.11	107	80-120	
Lithium	mg/L	0.1	0.10	102	80-120	
Molybdenum	mg/L	0.1	0.11	105	80-120	
Selenium	mg/L	0.1	0.11	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116815 116816

Parameter	Units	2616901004 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
			Spike Conc.	MS Result	MSD Result	MSD Result						
Arsenic	mg/L	ND	0.1	0.10	0.10	0.10	103	102	75-125	1	20	
Barium	mg/L	0.027	0.1	0.13	0.13	0.13	105	100	75-125	4	20	
Beryllium	mg/L	0.00015J	0.1	0.10	0.10	0.10	100	100	75-125	0	20	
Boron	mg/L	0.63	1	1.6	1.6	1.6	102	101	75-125	0	20	
Cadmium	mg/L	ND	0.1	0.11	0.10	0.10	105	105	75-125	0	20	
Calcium	mg/L	11.9J	1	13.1J	17.2J	17.2J	129	532	75-125	27	20	M6, R1

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QUALITY CONTROL DATA

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Parameter	Units	116815		116816		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		2616901004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Chromium	mg/L	0.0030J	0.1	0.1	0.11	0.11	106	106	75-125	0	20	
Cobalt	mg/L	0.0022J	0.1	0.1	0.11	0.10	103	101	75-125	2	20	
Lithium	mg/L	ND	0.1	0.1	0.10	0.10	102	100	75-125	2	20	
Molybdenum	mg/L	ND	0.1	0.1	0.11	0.10	107	103	75-125	4	20	
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	101	100	75-125	1	20	

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QUALITY CONTROL DATA

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

QC Batch: 25772 Analysis Method: SM 2540C

QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2616901001, 2616901002, 2616901003, 2616901006, 2616901007, 2616901009, 2616901010, 2616901011, 2616901014

LABORATORY CONTROL SAMPLE: 116265

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	403	101	84-108	

SAMPLE DUPLICATE: 116266

Parameter	Units	2616783001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	87.0	115	28	10	D6

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QUALITY CONTROL DATA

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

QC Batch: 25999

Analysis Method: SM 2540C

QC Batch Method: SM 2540C

Analysis Description: 2540C Total Dissolved Solids

Associated Lab Samples: 2616901004, 2616901005, 2616901008, 2616901012, 2616901013, 2616901015

LABORATORY CONTROL SAMPLE: 117377

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	411	103	84-108	

SAMPLE DUPLICATE: 117378

Parameter	Units	2617086001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	226	203	11	10	D6

SAMPLE DUPLICATE: 117379

Parameter	Units	2616901015 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	ND	13.0J		10	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

QC Batch: 25881 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2616901001, 2616901002, 2616901003, 2616901004, 2616901005, 2616901006, 2616901007, 2616901008, 2616901009, 2616901010, 2616901011, 2616901012, 2616901013, 2616901014, 2616901015

METHOD BLANK: 116727 Matrix: Water
Associated Lab Samples: 2616901001, 2616901002, 2616901003, 2616901004, 2616901005, 2616901006, 2616901007, 2616901008, 2616901009, 2616901010, 2616901011, 2616901012, 2616901013, 2616901014, 2616901015

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.069J	0.25	0.024	04/05/19 23:23	
Fluoride	mg/L	ND	0.30	0.029	04/05/19 23:23	
Sulfate	mg/L	0.028J	1.0	0.017	04/05/19 23:23	

LABORATORY CONTROL SAMPLE: 116728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.3	103	90-110	
Fluoride	mg/L	10	10.3	103	90-110	
Sulfate	mg/L	10	10.1	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 116729 116730

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2616881001 Result	Spike Conc.	Spike Conc.	MS Result						
Chloride	mg/L	4.0	10	10	13.8	13.7	99	97	90-110	1	15
Fluoride	mg/L	0.042J	10	10	10.0	9.9	100	99	90-110	1	15
Sulfate	mg/L	1.7	10	10	11.4	11.4	97	96	90-110	1	15

MATRIX SPIKE SAMPLE: 116731

Parameter	Units	2616885001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	6.5	10	15.5	89	90-110	M1
Fluoride	mg/L	0.029J	10	9.5	95	90-110	
Sulfate	mg/L	50.4	10	54.7	43	90-110	E,M1

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

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.

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

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

E Analyte concentration exceeded the calibration range. The reported result is estimated.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Ash Ponds
Pace Project No.: 2616901

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2616901001	YGWA-3I	EPA 3005A	25905	EPA 6020B	25922
2616901002	YGWA-3D	EPA 3005A	25905	EPA 6020B	25922
2616901003	YGWA-30I	EPA 3005A	25905	EPA 6020B	25922
2616901004	YGWC-26S	EPA 3005A	25905	EPA 6020B	25922
2616901005	YGWC-26I	EPA 3005A	25905	EPA 6020B	25922
2616901006	YGWC-27S	EPA 3005A	25905	EPA 6020B	25922
2616901007	YGWC-27I	EPA 3005A	25905	EPA 6020B	25922
2616901008	YGWC-28S	EPA 3005A	25905	EPA 6020B	25922
2616901009	YGWC-28I	EPA 3005A	25905	EPA 6020B	25922
2616901010	YGWC-29I	EPA 3005A	25905	EPA 6020B	25922
2616901011	EB-1-4-1-19	EPA 3005A	25905	EPA 6020B	25922
2616901012	EB-2-4-2-19	EPA 3005A	25905	EPA 6020B	25922
2616901013	Dup-2	EPA 3005A	25905	EPA 6020B	25922
2616901014	FB-1-4-1-19	EPA 3005A	25905	EPA 6020B	25922
2616901015	FB-2-4-2-19	EPA 3005A	25905	EPA 6020B	25922
2616901001	YGWA-3I	EPA 7470A	25770	EPA 7470A	25896
2616901002	YGWA-3D	EPA 7470A	25770	EPA 7470A	25896
2616901003	YGWA-30I	EPA 7470A	25770	EPA 7470A	25896
2616901004	YGWC-26S	EPA 7470A	25770	EPA 7470A	25896
2616901005	YGWC-26I	EPA 7470A	25770	EPA 7470A	25896
2616901006	YGWC-27S	EPA 7470A	25770	EPA 7470A	25896
2616901007	YGWC-27I	EPA 7470A	25770	EPA 7470A	25896
2616901008	YGWC-28S	EPA 7470A	25770	EPA 7470A	25896
2616901009	YGWC-28I	EPA 7470A	25770	EPA 7470A	25896
2616901010	YGWC-29I	EPA 7470A	25770	EPA 7470A	25896
2616901011	EB-1-4-1-19	EPA 7470A	25770	EPA 7470A	25896
2616901012	EB-2-4-2-19	EPA 7470A	25770	EPA 7470A	25896
2616901013	Dup-2	EPA 7470A	25770	EPA 7470A	25896
2616901014	FB-1-4-1-19	EPA 7470A	25770	EPA 7470A	25896
2616901015	FB-2-4-2-19	EPA 7470A	25770	EPA 7470A	25896
2616901001	YGWA-3I	SM 2540C	25772		
2616901002	YGWA-3D	SM 2540C	25772		
2616901003	YGWA-30I	SM 2540C	25772		
2616901004	YGWC-26S	SM 2540C	25999		
2616901005	YGWC-26I	SM 2540C	25999		
2616901006	YGWC-27S	SM 2540C	25772		
2616901007	YGWC-27I	SM 2540C	25772		
2616901008	YGWC-28S	SM 2540C	25999		
2616901009	YGWC-28I	SM 2540C	25772		
2616901010	YGWC-29I	SM 2540C	25772		
2616901011	EB-1-4-1-19	SM 2540C	25772		
2616901012	EB-2-4-2-19	SM 2540C	25999		
2616901013	Dup-2	SM 2540C	25999		
2616901014	FB-1-4-1-19	SM 2540C	25772		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Ash Ponds

Pace Project No.: 2616901

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2616901015	FB-2-4-2-19	SM 2540C	25999		
2616901001	YGWA-3I	EPA 300.0	25881		
2616901002	YGWA-3D	EPA 300.0	25881		
2616901003	YGWA-30I	EPA 300.0	25881		
2616901004	YGWC-26S	EPA 300.0	25881		
2616901005	YGWC-26I	EPA 300.0	25881		
2616901006	YGWC-27S	EPA 300.0	25881		
2616901007	YGWC-27I	EPA 300.0	25881		
2616901008	YGWC-28S	EPA 300.0	25881		
2616901009	YGWC-28I	EPA 300.0	25881		
2616901010	YGWC-29I	EPA 300.0	25881		
2616901011	EB-1-4-1-19	EPA 300.0	25881		
2616901012	EB-2-4-2-19	EPA 300.0	25881		
2616901013	Dup-2	EPA 300.0	25881		
2616901014	FB-1-4-1-19	EPA 300.0	25881		
2616901015	FB-2-4-2-19	EPA 300.0	25881		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD



Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

CLIENT NAME:		ANALYSIS REQUESTED		CONTAINER TYPE		PRESERVATION		CONTAINER TYPE		PRESERVATION	
Georgia Power		P P P		P P P		P P P		P - PLASTIC		1 - HCl, 56°C	
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:		P P P		P P P		P P P		A - AMBER GLASS		2 - H ₂ SO ₄ , 56°C	
241 Ralph McGill Blvd SE B10185		P P P		P P P		P P P		G - CLEAR GLASS		3 - HNO ₃	
Atlanta, GA 30308		P P P		P P P		P P P		V - VOA VIAL		4 - NaOH, 56°C	
404-506-7239		P P P		P P P		P P P		S - STERILE		5 - NaOH/ZnAc, 56°C	
REPORT TO:		P P P		P P P		P P P		O - OTHER		6 - Na ₂ S ₂ O ₈ , 56°C	
Joju Abraham		P P P		P P P		P P P				7 - 56°C not frozen	
REQUESTED COMPLETION DATE:		P P P		P P P		P P P					
PO #:		P P P		P P P		P P P					
PROJECT NAME/STATE:		P P P		P P P		P P P					
Plant Yates - Ash Pond 2		P P P		P P P		P P P					
PROJECT #:		P P P		P P P		P P P					
Collection DATE	Collection TIME	MATRIX CODE*	C O R M A B	SAMPLE IDENTIFICATION	Metals App. III (EPA 6020/7470)	Boron, Calcium	Cl, F, SO ₄ & TDS	(EPA 300.0 & SM 2540C)	Detected App IV (See List below)	Det. App. IV Radium 226 & 228 (SW-846 9315/9320)	CONTAINERS
4-1-19	1535	6W	✓	Y6WA-3I	✓	✓	✓	✓	✓	✓	4
4-1-19	1216	6W	✓	Y6WA-3D	✓	✓	✓	✓	✓	✓	4
4-1-19	1305	6W	✓	Y6WA-3OI	✓	✓	✓	✓	✓	✓	4
4-2-19	1203	6W	✓	Y6WE-26S	✓	✓	✓	✓	✓	✓	4
4-2-19	1353	6W	✓	Y6WC-26I	✓	✓	✓	✓	✓	✓	4
4-1-19	1540	6W	✓	Y6WC-27S	✓	✓	✓	✓	✓	✓	4
4-1-19	1635	6W	✓	Y6WC-27I	✓	✓	✓	✓	✓	✓	4
4-2-19	1300	6W	✓	Y6WC-28S	✓	✓	✓	✓	✓	✓	6
4-1-19	1615	6W	✓	Y6WC-28I	✓	✓	✓	✓	✓	✓	4
4-1-19	1446	6W	✓	Y6WC-29I	✓	✓	✓	✓	✓	✓	4
SAMPLED BY AND TITLE:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:	
C. Anderson, H. Auld (Acc)		See above		4-2-19 / 1710		4-2-19 / 1710		4-2-19 / 1710		4-2-19 / 1710	
RECEIVED BY:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:	
[Signature]		4-2-19 / 1710		4-2-19 / 1710		4-2-19 / 1710		4-2-19 / 1710		4-2-19 / 1710	
RECEIVED BY LAB:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:		DATE/TIME:	
[Signature]		4-2-19 / 1710		4-2-19 / 1710		4-2-19 / 1710		4-2-19 / 1710		4-2-19 / 1710	
LAB #		ENTERED INTO LIMS:		TRACKING #		FOR LAB USE ONLY		LAB #		ENTERED INTO LIMS:	
[Blank]		[Blank]		[Blank]		[Blank]		[Blank]		[Blank]	

WO#: 2616901



APP III, plus Detected APP IV

Detected APP IV: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lithium, Mercury, Molybdenum, Selenium, I
Bolded Detections: Listed above or included with App III

Yates Ash Pond 2 - Blank COCs.xlsx



CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

Form containing client information, project details, analysis requested table, and sample identification table.

PM: BM Due Date: 04/10/19
CLIENT: GAPover-CCR

WO#: 2616901

APP III, plus Detected APP IV
Detected APP IV: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lithium, Mercury, Molybdenum, Selenium, R;
Bolded Detections: Listed above or included with App III



Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

WO#: **2616901**

PM: **BM**

Due Date: **04/10/19**

CLIENT: **GAPower-CCR**

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Cooler Temperature 1.1 Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Samples on ice, cooling process has begun

Date and Initials of person examining contents: 4/2/19 MR

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: _____

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Field Data Required? Y / N

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)

April 25, 2019

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

RE: Project: Plant Yates Ash Pond 2
Pace Project No.: 2616902

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on April 02, 2019. 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,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Ash Pond 2
Pace Project No.: 2616902

Pennsylvania Certification IDs

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: Plant Yates Ash Pond 2
Pace Project No.: 2616902

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2616902001	YGWA-3I	Water	04/01/19 15:35	04/02/19 17:10
2616902002	YGWA-3D	Water	04/01/19 12:16	04/02/19 17:10
2616902003	YGWA-30I	Water	04/01/19 13:05	04/02/19 17:10
2616902004	YGWC-26S	Water	04/02/19 12:03	04/02/19 17:10
2616902005	YGWC-26I	Water	04/02/19 13:53	04/02/19 17:10
2616902006	YGWC-27S	Water	04/01/19 15:40	04/02/19 17:10
2616902007	YGWC-27I	Water	04/01/19 16:35	04/02/19 17:10
2616902008	YGWC-28S	Water	04/02/19 13:00	04/02/19 17:10
2616902009	YGWC-28I	Water	04/01/19 16:15	04/02/19 17:10
2616902010	YGWC-29I	Water	04/01/19 14:46	04/02/19 17:10
2616902011	EB-1-4-1-19	Water	04/01/19 12:45	04/02/19 17:10
2616902012	EB-2-4-2-19	Water	04/02/19 10:25	04/02/19 17:10
2616902013	Dup-2	Water	04/02/19 00:00	04/02/19 17:10
2616902014	FB-1-4-1-19	Water	04/01/19 14:35	04/02/19 17:10
2616902015	FB-2-4-2-19	Water	04/02/19 10:40	04/02/19 17:10

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2616902001	YGWA-3I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902002	YGWA-3D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902003	YGWA-30I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902004	YGWC-26S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902005	YGWC-26I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902006	YGWC-27S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902007	YGWC-27I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902008	YGWC-28S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902009	YGWC-28I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902010	YGWC-29I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902011	EB-1-4-1-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902012	EB-2-4-2-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2616902013	Dup-2	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2616902014	FB-1-4-1-19	EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
2616902015	FB-2-4-2-19	Total Radium Calculation	CMC	1	PASI-PA
		EPA 9315	LAL	1	PASI-PA
		EPA 9320	JLW	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWA-3I **Lab ID: 2616902001** Collected: 04/01/19 15:35 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.43 ± 0.501 (0.452) C:90% T:NA	pCi/L	04/12/19 08:12	13982-63-3	
Radium-228	EPA 9320	0.847 ± 0.480 (0.869) C:77% T:90%	pCi/L	04/16/19 16:21	15262-20-1	
Total Radium	Total Radium Calculation	2.28 ± 0.981 (1.32)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWA-3D **Lab ID: 2616902002** Collected: 04/01/19 12:16 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.85 ± 0.569 (0.404) C:88% T:NA	pCi/L	04/12/19 08:12	13982-63-3	
Radium-228	EPA 9320	2.48 ± 0.737 (0.988) C:75% T:85%	pCi/L	04/16/19 13:05	15262-20-1	
Total Radium	Total Radium Calculation	4.33 ± 1.31 (1.39)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWA-30I **Lab ID: 2616902003** Collected: 04/01/19 13:05 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.509 ± 0.311 (0.438) C:82% T:NA	pCi/L	04/12/19 08:12	13982-63-3	
Radium-228	EPA 9320	0.508 ± 0.464 (0.953) C:76% T:77%	pCi/L	04/16/19 13:05	15262-20-1	
Total Radium	Total Radium Calculation	1.02 ± 0.775 (1.39)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWC-26S **Lab ID: 2616902004** Collected: 04/02/19 12:03 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.139 ± 0.257 (0.588) C:87% T:NA	pCi/L	04/12/19 08:04	13982-63-3	
Radium-228	EPA 9320	0.569 ± 0.504 (1.03) C:75% T:83%	pCi/L	04/16/19 16:26	15262-20-1	
Total Radium	Total Radium Calculation	0.708 ± 0.761 (1.62)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWC-261 **Lab ID: 2616902005** Collected: 04/02/19 13:53 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.479 ± 0.333 (0.577) C:93% T:NA	pCi/L	04/12/19 08:04	13982-63-3	
Radium-228	EPA 9320	0.361 ± 0.408 (0.855) C:74% T:76%	pCi/L	04/16/19 16:20	15262-20-1	
Total Radium	Total Radium Calculation	0.840 ± 0.741 (1.43)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWC-27S **Lab ID: 2616902006** Collected: 04/01/19 15:40 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.429 ± 0.280 (0.417) C:91% T:NA	pCi/L	04/12/19 08:12	13982-63-3	
Radium-228	EPA 9320	0.348 ± 0.365 (0.755) C:72% T:83%	pCi/L	04/16/19 16:21	15262-20-1	
Total Radium	Total Radium Calculation	0.777 ± 0.645 (1.17)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWC-271 **Lab ID: 2616902007** Collected: 04/01/19 16:35 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	4.04 ± 0.938 (0.391) C:89% T:NA	pCi/L	04/12/19 08:04	13982-63-3	
Radium-228	EPA 9320	0.964 ± 0.440 (0.724) C:74% T:83%	pCi/L	04/16/19 16:21	15262-20-1	
Total Radium	Total Radium Calculation	5.00 ± 1.38 (1.12)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWC-28S **Lab ID: 2616902008** Collected: 04/02/19 13:00 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.320 ± 0.260 (0.453) C:97% T:NA	pCi/L	04/12/19 08:04	13982-63-3	
Radium-228	EPA 9320	0.201 ± 0.453 (1.00) C:72% T:93%	pCi/L	04/16/19 16:26	15262-20-1	
Total Radium	Total Radium Calculation	0.521 ± 0.713 (1.45)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWC-28I **Lab ID: 2616902009** Collected: 04/01/19 16:15 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.162 ± 0.216 (0.451) C:83% T:NA	pCi/L	04/12/19 08:12	13982-63-3	
Radium-228	EPA 9320	-0.147 ± 0.326 (0.792) C:73% T:87%	pCi/L	04/16/19 16:21	15262-20-1	
Total Radium	Total Radium Calculation	0.162 ± 0.542 (1.24)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: YGWC-291 **Lab ID: 2616902010** Collected: 04/01/19 14:46 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.274 ± 0.261 (0.501) C:94% T:NA	pCi/L	04/12/19 08:12	13982-63-3	
Radium-228	EPA 9320	0.310 ± 0.439 (0.946) C:74% T:88%	pCi/L	04/16/19 13:05	15262-20-1	
Total Radium	Total Radium Calculation	0.584 ± 0.700 (1.45)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: EB-1-4-1-19 **Lab ID: 2616902011** Collected: 04/01/19 12:45 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.191 ± 0.244 (0.507) C:84% T:NA	pCi/L	04/12/19 08:12	13982-63-3	
Radium-228	EPA 9320	0.324 ± 0.404 (0.860) C:73% T:88%	pCi/L	04/16/19 13:05	15262-20-1	
Total Radium	Total Radium Calculation	0.515 ± 0.648 (1.37)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: EB-2-4-2-19 **Lab ID: 2616902012** Collected: 04/02/19 10:25 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.368 ± 0.277 (0.455) C:93% T:NA	pCi/L	04/12/19 08:04	13982-63-3	
Radium-228	EPA 9320	1.59 ± 0.665 (1.11) C:69% T:79%	pCi/L	04/16/19 16:26	15262-20-1	
Total Radium	Total Radium Calculation	1.96 ± 0.942 (1.57)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: Dup-2 **Lab ID: 2616902013** Collected: 04/02/19 00:00 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.457 ± 0.370 (0.702) C:86% T:NA	pCi/L	04/12/19 08:04	13982-63-3	
Radium-228	EPA 9320	0.718 ± 0.593 (1.21) C:74% T:77%	pCi/L	04/16/19 16:26	15262-20-1	
Total Radium	Total Radium Calculation	1.18 ± 0.963 (1.91)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: FB-1-4-1-19 **Lab ID: 2616902014** Collected: 04/01/19 14:35 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.132 ± 0.181 (0.377) C:88% T:NA	pCi/L	04/12/19 08:12	13982-63-3	
Radium-228	EPA 9320	0.404 ± 0.457 (0.965) C:73% T:84%	pCi/L	04/16/19 13:05	15262-20-1	
Total Radium	Total Radium Calculation	0.536 ± 0.638 (1.34)	pCi/L	04/17/19 13:14	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

Sample: FB-2-4-2-19 **Lab ID: 2616902015** Collected: 04/02/19 10:40 Received: 04/02/19 17:10 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.362 ± 0.286 (0.490) C:84% T:NA	pCi/L	04/12/19 08:04	13982-63-3	
Radium-228	EPA 9320	0.517 ± 0.448 (0.913) C:73% T:90%	pCi/L	04/16/19 16:26	15262-20-1	
Total Radium	Total Radium Calculation	0.879 ± 0.734 (1.40)	pCi/L	04/17/19 13:14	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

QC Batch:	337341	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	2616902001, 2616902002, 2616902003, 2616902004, 2616902005, 2616902006, 2616902007, 2616902008, 2616902009, 2616902010, 2616902011, 2616902012, 2616902013, 2616902014, 2616902015		

METHOD BLANK:	1641952	Matrix:	Water
Associated Lab Samples:	2616902001, 2616902002, 2616902003, 2616902004, 2616902005, 2616902006, 2616902007, 2616902008, 2616902009, 2616902010, 2616902011, 2616902012, 2616902013, 2616902014, 2616902015		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.438 ± 0.343 (0.679) C:77% T:88%	pCi/L	04/16/19 13:06	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

QC Batch:	337391	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	2616902001, 2616902002, 2616902003, 2616902004, 2616902005, 2616902006, 2616902007, 2616902008, 2616902009, 2616902010, 2616902011, 2616902012, 2616902013, 2616902014, 2616902015		

METHOD BLANK:	1642068	Matrix:	Water
Associated Lab Samples:	2616902001, 2616902002, 2616902003, 2616902004, 2616902005, 2616902006, 2616902007, 2616902008, 2616902009, 2616902010, 2616902011, 2616902012, 2616902013, 2616902014, 2616902015		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.148 ± 0.194 (0.401) C:93% T:NA	pCi/L	04/12/19 08:12	

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QUALIFIERS

Project: Plant Yates Ash Pond 2

Pace Project No.: 2616902

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.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Ash Pond 2
Pace Project No.: 2616902

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2616902001	YGWA-3I	EPA 9315	337391		
2616902002	YGWA-3D	EPA 9315	337391		
2616902003	YGWA-30I	EPA 9315	337391		
2616902004	YGWC-26S	EPA 9315	337391		
2616902005	YGWC-26I	EPA 9315	337391		
2616902006	YGWC-27S	EPA 9315	337391		
2616902007	YGWC-27I	EPA 9315	337391		
2616902008	YGWC-28S	EPA 9315	337391		
2616902009	YGWC-28I	EPA 9315	337391		
2616902010	YGWC-29I	EPA 9315	337391		
2616902011	EB-1-4-1-19	EPA 9315	337391		
2616902012	EB-2-4-2-19	EPA 9315	337391		
2616902013	Dup-2	EPA 9315	337391		
2616902014	FB-1-4-1-19	EPA 9315	337391		
2616902015	FB-2-4-2-19	EPA 9315	337391		
2616902001	YGWA-3I	EPA 9320	337341		
2616902002	YGWA-3D	EPA 9320	337341		
2616902003	YGWA-30I	EPA 9320	337341		
2616902004	YGWC-26S	EPA 9320	337341		
2616902005	YGWC-26I	EPA 9320	337341		
2616902006	YGWC-27S	EPA 9320	337341		
2616902007	YGWC-27I	EPA 9320	337341		
2616902008	YGWC-28S	EPA 9320	337341		
2616902009	YGWC-28I	EPA 9320	337341		
2616902010	YGWC-29I	EPA 9320	337341		
2616902011	EB-1-4-1-19	EPA 9320	337341		
2616902012	EB-2-4-2-19	EPA 9320	337341		
2616902013	Dup-2	EPA 9320	337341		
2616902014	FB-1-4-1-19	EPA 9320	337341		
2616902015	FB-2-4-2-19	EPA 9320	337341		
2616902001	YGWA-3I	Total Radium Calculation	338681		
2616902002	YGWA-3D	Total Radium Calculation	338681		
2616902003	YGWA-30I	Total Radium Calculation	338681		
2616902004	YGWC-26S	Total Radium Calculation	338681		
2616902005	YGWC-26I	Total Radium Calculation	338681		
2616902006	YGWC-27S	Total Radium Calculation	338681		
2616902007	YGWC-27I	Total Radium Calculation	338681		
2616902008	YGWC-28S	Total Radium Calculation	338681		
2616902009	YGWC-28I	Total Radium Calculation	338681		
2616902010	YGWC-29I	Total Radium Calculation	338681		
2616902011	EB-1-4-1-19	Total Radium Calculation	338681		
2616902012	EB-2-4-2-19	Total Radium Calculation	338681		
2616902013	Dup-2	Total Radium Calculation	338681		
2616902014	FB-1-4-1-19	Total Radium Calculation	338681		
2616902015	FB-2-4-2-19	Total Radium Calculation	338681		

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Sample Condition Upon Receipt

Client Name: GIA Powere

Project # _____

WO#: **2616902**

PM: **BM** Due Date: **05/01/19**

CLIENT: **GAPower-CCR**

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None

Cooler Temperature 1.1 Biological Tissue is Frozen: Yes No
Temp should be above freezing to 6°C

Samples on ice, cooling process has begun
Date and Initials of person examining contents: 4/2/19 MD

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)

Product Name: Low-Flow System

Date: 2019-03-28 11:43:15

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 407447
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 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 50 ft
Depth to Water 45.15 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 1.527495 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.8 in
Total Volume Pumped 5.7 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:21:19	15.89	6.97	161.75	9.30	45.30	+/- 10%	+/- 0
Last 5	11:26:19	16.08	6.98	158.75	6.50	45.30	1.35	-109.84
Last 5	11:31:19	16.22	6.98	156.20	6.00	45.30	0.79	-105.16
Last 5	11:36:22	16.17	6.98	154.21	5.50	45.30	0.40	-103.49
Last 5	11:41:22	16.29	6.99	152.61	4.70	45.30	0.30	-99.45
Variance 0		0.14	-0.00	-2.55			0.27	-95.27
Variance 1		-0.05	-0.00	-1.99			-0.39	1.67
Variance 2		0.12	0.01	-1.60			-0.10	4.04

Notes

Sampled at 1143 on 3-28-19. Sunny, 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-28 15:10:43

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 407447
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 55 ft
Pump placement from TOC 50 ft

Well Information:

Well ID YGWA-1I
Well diameter 2 in
Well Total Depth 54.93 ft
Screen Length 10 ft
Depth to Water 32.78 ft

Pumping Information:

Final Pumping Rate 60 mL/min
Total System Volume 1.0159 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 23 in
Total Volume Pumped 5.6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:45:24	17.63	6.23	59.10	3.70	34.50	3.15	+/- 0
Last 5	14:50:24	17.28	6.22	57.38	3.20	34.60	3.45	70.14
Last 5	14:55:24	17.19	6.19	57.24	3.00	34.70	3.72	80.28
Last 5	15:00:25	17.07	6.15	57.77	2.90	34.70	3.96	80.26
Last 5	15:05:25	17.17	6.15	58.32	2.70	34.70	4.07	85.28
Variance 0		-0.09	-0.03	-0.13			0.27	83.83
Variance 1		-0.12	-0.03	0.53			0.24	-0.02
Variance 2		0.10	-0.00	0.54			0.11	5.03

Notes

Sampled at 1508 on 3-28-19. Sunny, 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-29 11:28:51

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 407447
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 66 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 41.4 ft

Pumping Information:

Final Pumping Rate 50 mL/min
Total System Volume 1.12208 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 24 in
Total Volume Pumped 1.9 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	11:05:01	900.02	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 0
Last 5	11:10:01	1200.02	7.13	212.60	3.90	42.60	3.82	-89.78
Last 5	11:15:01	1500.01	7.11	213.35	3.60	42.90	2.68	-94.07
Last 5	11:20:01	1799.99	7.05	214.47	3.30	43.20	1.55	-99.58
Last 5	11:25:02	2100.99	7.03	214.38	3.20	43.30	1.60	-96.55
Variance 0		0.38	7.06	213.56	3.10	43.40	1.59	-84.54
Variance 1		0.09	-0.06	1.11			-1.13	-5.50
Variance 2		0.22	-0.02	-0.09			0.05	3.03
			0.02	-0.82			-0.01	12.01

Notes

Sampled at 1127 on 3-29-19. Sunny, 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-01 10:19:24

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Yates AP2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 416162
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Mode/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 137 ft

Pump placement from TOC 112 ft

Well Information:

Well ID YGWA-3D
Well diameter 2 in
Well Total Depth 137.10 ft
Screen Length 50 ft
Depth to Water 28.45 ft

Pumping Information:

Final Pumping Rate 140 mL/min
Total System Volume 1.712424 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 2 in
Total Volume Pumped 4.15 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	09:56:56	1199.99	+/- 0.1	+/- 3%	+/- 10		+/- 0.3	+/- 10
Last 5	10:01:56	1499.99	7.77	212.41	1.28	28.60	0.78	-44.29
Last 5	10:06:56	1799.98	7.81	211.98	1.06	28.60	0.62	-45.30
Last 5	10:11:56	2099.97	7.83	211.63	1.54	28.60	0.44	-52.82
Last 5	10:16:57	2400.96	7.85	212.56	1.20	28.60	0.31	-56.92
Variance 0			7.87	212.61	1.21	28.60	0.24	-62.74
Variance 1			0.03	-0.36			-0.18	-7.53
Variance 2			0.02	0.94			-0.13	-4.10
			0.02	0.04			-0.07	-5.82

Notes

Sampled at 12:16 4-1-19. Sunny 60's.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-01 13:36:27

Project Information:

Operator Name Ryan Walker
Company Name ACC
Project Name Plant Yates AP2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 416162
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Mode/Type QED Bladder
Tubing Type poly
Tubing Diameter .25 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 52.35 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.9691639 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 5 in
Total Volume Pumped 15.25 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:14:50	15.73	7.74	187.83	1.14	52.80	+/- 0.3	+/- 10
Last 5	13:19:50	15.66	7.74	188.02	1.06	52.80	0.39	-88.72
Last 5	13:24:50	15.69	7.74	187.99	1.04	52.80	0.39	-89.04
Last 5	13:29:50	15.69	7.74	187.86	1.17	52.80	0.40	-88.07
Last 5	13:34:50	15.60	7.74	187.48	0.95	52.80	0.38	-89.17
Variance 0		0.03	-0.00	-0.03			0.01	-87.79
Variance 1		-0.00	-0.00	-0.13			-0.01	0.97
Variance 2		-0.09	-0.00	-0.38			-0.01	-1.10

Notes

Started purge at 13:00. iPod failure. Restart log. Sampled at 15:35 on 4-1-19.

Grab Samples

Product Name: Low-Flow System

Date: 2019-03-29 13:51:20

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 407447
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 36 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 13.59 ft

Pumping Information:

Final Pumping Rate 220 mL/min
Total System Volume 0.8324984 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 6.1 in
Total Volume Pumped 7.7 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:24:47	18.08	5.70	54.21	1.00	14.10	6.91	198.34
Last 5	13:29:47	17.99	5.50	54.36	0.60	14.10	6.84	206.00
Last 5	13:39:48	17.82	5.37	54.60	0.75	14.10	6.77	214.80
Last 5	13:44:48	17.84	5.37	54.62	0.40	14.10	6.69	214.40
Last 5	13:49:48	17.72	5.34	54.58	0.50	14.10	6.73	214.80
Variance 0		-0.17	-0.13	0.24			-0.07	8.80
Variance 1		0.03	-0.01	0.02			-0.08	-0.40
Variance 2		-0.12	-0.03	-0.04			0.04	0.41

Notes

Sampled at 1350 on 3-29-19. Sunny, 70. Dup-1 here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-01 13:04:10

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 407447
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 60 ft
Pump placement from TOC 54 ft

Well Information:

Well ID YGWA-30I
Well diameter 2 in
Well Total Depth 59.65 ft
Screen Length 10 ft
Depth to Water 35.73 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 1.064164 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0.5 in
Total Volume Pumped 6.8 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	12:41:49	17.16	5.83	37.02	3.00	35.75	7.25	166.45
Last 5	12:46:49	17.17	5.65	36.89	1.90	35.75	7.21	168.58
Last 5	12:51:49	17.23	5.55	37.48	1.30	35.75	7.13	162.71
Last 5	12:56:49	17.28	5.63	36.98	1.00	35.75	7.11	164.15
Last 5	13:02:01	17.27	5.62	36.83	1.00	35.75	7.08	163.26
Variance 0		0.06	-0.10	0.59			-0.07	-5.87
Variance 1		0.04	0.08	-0.50			-0.03	1.44
Variance 2		-0.01	-0.01	-0.15			-0.02	-0.89

Notes

Sampled at 1305 on 4-1-19. Sunny, 50s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 13:53:16

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 407447
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 70 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 22.18 ft

Pumping Information:

Final Pumping Rate 180 mL/min
Total System Volume 1.160691 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.2 in
Total Volume Pumped 13.1 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	13:25:02	2700.00	5.87	307.01	7.20	22.45	0.23	+/- 0
Last 5	13:30:02	2999.99	5.87	306.09	7.00	22.45	0.23	96.93
Last 5	13:40:25	3622.99	5.87	305.54	6.30	22.45	0.23	97.63
Last 5	13:45:25	3922.98	5.86	305.82	5.50	22.45	0.23	96.73
Last 5	13:50:25	4222.98	5.87	305.51	4.80	22.45	0.23	96.59
Variance 0		0.18	-0.00	-0.55			0.00	96.12
Variance 1		-0.06	-0.01	0.28			-0.00	-0.90
Variance 2		-0.22	0.00	-0.31			0.00	-0.13

Notes

Sampled at 1353 on 4-2-19. Sunny, 60s. Dup 2 here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 12:03:15

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 407447
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 41 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 18.78 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.880762 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 12.2 in
Total Volume Pumped 6.3 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 0
Last 5	11:40:19	18.85	5.14	276.63	5.70	19.80	0.95	160.14
Last 5	11:45:19	18.96	5.16	276.72	5.05	19.80	0.94	162.26
Last 5	11:50:19	19.10	5.19	277.77	5.40	19.80	0.85	158.32
Last 5	11:55:20	19.10	5.14	277.75	4.40	19.80	0.91	154.65
Last 5	12:00:20	19.18	5.13	276.09	4.60	19.80	1.02	153.76
Variance 0		0.15	0.02	1.05			-0.09	-3.95
Variance 1		-0.00	-0.04	-0.03			0.06	-3.67
Variance 2		0.08	-0.01	-1.66			0.11	-0.88

Notes

Sampled at 1203 on 4-2-19. Sunny, 50s. FB-2-4-2-19 here at 1040.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-01 16:35:48

Project Information:

Operator Name Chris Parker
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates AP 2
 Site Name Plant Yates
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 369807
 Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
 Tubing Type Poly
 Tubing Diameter .25 in
 Tubing Length 80 ft
 Pump placement from TOC 75 ft

Well Information:

Well ID YGWC-271
 Well diameter 2 in
 Well Total Depth 79.84 ft
 Screen Length 10 ft
 Depth to Water 26.6 ft

Pumping Information:

Final Pumping Rate 160 mL/min
 Total System Volume 1.257218 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 7 in
 Total Volume Pumped 5.6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5 16:06:48	300.06	21.01	7.38	291.65	9.96	27.20	1.10	-31.55
Last 5 16:11:48	600.01	19.23	7.00	319.32	6.45	27.20	1.04	-9.01
Last 5 16:16:48	900.00	19.10	6.52	323.05	3.54	27.20	0.71	-1.42
Last 5 16:21:48	1199.99	19.05	6.45	323.42	2.26	27.20	0.41	3.31
Last 5 16:26:48	1499.98	18.95	6.43	322.50	1.87	27.20	0.30	6.85
Variance 0		-0.13	-0.48	3.73			-0.33	7.59
Variance 1		-0.05	-0.07	0.36			-0.30	4.73
Variance 2		-0.10	-0.02	-0.92			-0.10	3.54

Notes

Sampled at 16:35. Sunny 60s

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-01 15:38:58

Project Information:

Operator Name Chris Parker
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates AP 2
 Site Name Plant Yates
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 369807
 Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
 Tubing Type Poly
 Tubing Diameter .25 in
 Tubing Length 40 ft
 Pump placement from TOC 35 ft

Well Information:

Well ID YGWC-27S
 Well diameter 2 in
 Well Total Depth 40.26 ft
 Screen Length 10 ft
 Depth to Water 26.15 ft

Pumping Information:

Final Pumping Rate 180 mL/min
 Total System Volume 0.8711092 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1 in
 Total Volume Pumped 8.1 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5 15:13:05	600.07	18.87	6.47	388.34	6.37	26.20	1.21	119.80
Last 5 15:18:05	900.01	18.92	6.46	389.98	5.89	26.20	0.69	123.00
Last 5 15:23:07	1201.99	19.12	6.44	391.13	5.31	26.20	0.47	131.79
Last 5 15:28:07	1501.98	18.86	6.42	395.22	5.02	26.20	0.38	134.22
Last 5 15:33:07	1801.98	19.02	6.40	396.01	4.67	26.20	0.27	134.38
Variance 0		0.20	-0.02	1.15			-0.22	8.80
Variance 1		-0.27	-0.02	4.09			-0.09	2.43
Variance 2		0.17	-0.02	0.80			-0.11	0.16

Notes

Sampled at 15:40. Sunny 60s

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-01 16:10:52

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: 407447
Turbidity Make/Model: Hach 2100Q

Pump Information:

Pump Model/Type: QED Bladder Pump
Tubing Type: poly
Tubing Diameter: 0.25 in
Tubing Length: 70 ft
Pump placement from TOC: 64 ft

Well Information:

Well ID: YGWC-281
Well diameter: 2 in
Well Total Depth: 69.89 ft
Screen Length: 10 ft
Depth to Water: 22.34 ft

Pumping Information:

Final Pumping Rate: 130 mL/min
Total System Volume: 1.160691 L
Calculated Sample Rate: 300 sec
Stabilization Drawdown: 21.1 in
Total Volume Pumped: 5.2 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 10		+/- 10%	+/- 0
Last 5	15:50:01	19.10	6.30	358.76	1.10	23.70	1.10	182.83
Last 5	15:55:01	18.75	6.29	361.67	1.00	23.80	0.77	187.50
Last 5	16:00:01	18.70	6.29	363.72	1.30	23.90	0.54	179.60
Last 5	16:05:01	18.64	6.29	365.20	1.20	24.00	0.48	174.91
Last 5	16:10:01	19.04	6.30	365.28	1.10	24.10	0.43	158.39
Variance 0		-0.04	-0.00	2.05			-0.23	-7.90
Variance 1		-0.07	-0.00	1.48			-0.06	-4.69
Variance 2		0.40	0.01	0.08			-0.05	-16.52

Notes

Sampled at 1615 on 4-1-19. Sunny 60s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-02 12:59:43

Project Information:

Operator Name Chris Parker
Company Name Atlantic Coast Consulting
Project Name Plant Yates AP 2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 369807
Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
Tubing Type Poly
Tubing Diameter .25 in
Tubing Length 44 ft
Pump placement from TOC 39 ft

Well Information:

Well ID YGWC-28S
Well diameter 2 in
Well Total Depth 44.85 ft
Screen Length 10 ft
Depth to Water 21.7 ft

Pumping Information:

Final Pumping Rate 210 mL/min
Total System Volume 0.9097202 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 4 in
Total Volume Pumped 36 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0	+/- 0.1	+/- 5%	+/- 0		+/- 10%	+/- 0
Last 5	12:36:53	8700.80	6.70	449.59	5.20	22.00	0.10	-63.12
Last 5	12:41:53	9000.80	6.70	448.94	5.43	22.00	0.10	-62.73
Last 5	12:46:53	9300.79	6.70	448.68	5.11	22.00	0.10	-62.44
Last 5	12:51:53	9600.78	6.70	448.27	4.98	22.00	0.10	-62.22
Last 5	12:56:53	9900.77	6.70	448.11	4.73	22.00	0.10	-62.13
Variance 0		-0.04	-0.00	-0.26			0.00	0.29
Variance 1		0.07	-0.00	-0.41			-0.00	0.22
Variance 2		0.02	0.00	-0.16			0.00	0.09

Notes

Sampled at 13:00. Sunny 50s. EB 2 here at 10:25. - Water level.

Grab Samples

Product Name: Low-Flow System

Date: 2019-04-01 14:47:07

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 407447
Turbidity Make/Model Hach 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter 0.25 in
Tubing Length 40 ft
Pump placement from TOC 35 ft

Well Information:

Well ID YGWC-29I
Well diameter 2 in
Well Total Depth 39.46 ft
Screen Length 10 ft
Depth to Water 25.63 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8711092 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 3.2 in
Total Volume Pumped 3.3 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:23:01	18.82	6.11	247.61	0.90	26.75	1.60	405.45
Last 5	14:28:01	18.92	6.11	247.93	0.60	26.80	0.86	379.66
Last 5	14:34:16	18.84	6.03	248.13	0.40	26.85	0.52	210.43
Last 5	14:39:16	18.66	6.10	248.43	0.40	26.85	0.44	148.51
Last 5	14:44:17	18.72	6.03	248.88	0.40	26.90	0.41	136.60
Variance 0		-0.08	-0.08	0.21			-0.34	-169.23
Variance 1		-0.18	0.07	0.30			-0.08	-61.92
Variance 2		0.07	-0.07	0.46			-0.03	-11.91

Notes

Sampled at 1446 on 4-1-19. Sunny, 60. FB-1-4-1-19 here at 1435.

Grab Samples

December 11, 2019

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

RE: Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2019. 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.

This revised report replaces the report issued on 10/3/2019. The report has been revised to correct errant metals data. Please note the QA memorandum at the back of the report. No other changes have been made to this report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.

Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2623620

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

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SAMPLE SUMMARY

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2623620001	YGWA-2I	Water	09/24/19 11:20	09/26/19 15:15
2623620002	FB-1-9-24-19	Water	09/24/19 12:20	09/26/19 15:15
2623620003	YGWA-1I	Water	09/24/19 14:05	09/26/19 15:15
2623620004	YGWA-1D	Water	09/24/19 15:25	09/26/19 15:15
2623620005	YGWA-3I	Water	09/25/19 12:20	09/26/19 15:15
2623620006	EB-1-9-25-19	Water	09/25/19 11:30	09/26/19 15:15
2623620007	YGWA-3D	Water	09/25/19 13:40	09/26/19 15:15
2623620008	YGWC-29I	Water	09/25/19 15:30	09/26/19 15:15
2623620009	YGWA-14S	Water	09/25/19 11:05	09/26/19 15:15
2623620010	YGWA-30I	Water	09/25/19 13:30	09/26/19 15:15
2623620011	YGWC-26S	Water	09/25/19 15:30	09/26/19 15:15
2623620012	DUP-1	Water	09/25/19 00:00	09/26/19 15:15
2623620013	YGWC-26I	Water	09/25/19 16:50	09/26/19 15:15

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2623620001	YGWA-2I	EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2623620002	FB-1-9-24-19	EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2623620003	YGWA-1I	EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2623620004	YGWA-1D	EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2623620005	YGWA-3I	EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2623620006	EB-1-9-25-19	EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2623620007	YGWA-3D	EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2623620008	YGWC-29I	EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2623620009	YGWA-14S	EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
2623620010	YGWA-30I	EPA 6020B	CSW	11	PASI-GA

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2623620

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2623620011	YGWC-26S	EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2623620012	DUP-1	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
2623620013	YGWC-26I	EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A
		EPA 6020B	CSW	11	PASI-GA
		EPA 7470A	DRB	1	PASI-GA
		SM 2540C	ALW	1	PASI-GA
		EPA 300.0 Rev 2.1 1993	CDC	3	PASI-A

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: YGWA-2I		Lab ID: 2623620001		Collected: 09/24/19 11:20		Received: 09/26/19 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 19:46	7440-38-2	
Barium	0.0038J	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 19:46	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 19:46	7440-41-7	
Boron	0.0076J	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 19:46	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 19:46	7440-43-9	
Calcium	26.4	mg/L	5.0	0.55	50	09/28/19 14:58	10/02/19 19:51	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 19:46	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 19:46	7440-48-4	
Lithium	0.0011J	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 19:46	7439-93-2	
Molybdenum	0.0054J	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 19:46	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 19:46	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 12:39	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	146	mg/L	10.0	10.0	1		10/01/19 16:36		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	0.95J	mg/L	1.0	0.60	1		10/02/19 03:03	16887-00-6	
Fluoride	0.081J	mg/L	0.30	0.050	1		10/02/19 03:03	16984-48-8	
Sulfate	9.1	mg/L	1.0	0.50	1		10/02/19 03:03	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: FB-1-9-24-19		Lab ID: 2623620002		Collected: 09/24/19 12:20		Received: 09/26/19 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 19:57	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 19:57	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 19:57	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 19:57	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 19:57	7440-43-9	
Calcium	ND	mg/L	0.10	0.011	1	09/28/19 14:58	10/02/19 19:57	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 19:57	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 19:57	7440-48-4	
Lithium	ND	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 19:57	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 19:57	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 19:57	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 12:48	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/01/19 16:36		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	ND	mg/L	1.0	0.60	1		10/02/19 03:18	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		10/02/19 03:18	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/02/19 03:18	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: YGWA-11		Lab ID: 2623620003		Collected: 09/24/19 14:05		Received: 09/26/19 15:15		Matrix: Water		
Parameters	Results	Units	Report Limit		MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 20:03	7440-38-2		
Barium	0.0086J	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 20:03	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 20:03	7440-41-7		
Boron	0.0055J	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 20:03	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 20:03	7440-43-9		
Calcium	2.3	mg/L	0.10	0.011	1	09/28/19 14:58	10/02/19 20:03	7440-70-2		
Chromium	0.0028J	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 20:03	7440-47-3		
Cobalt	0.0013J	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 20:03	7440-48-4		
Lithium	0.0023J	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 20:03	7439-93-2		
Molybdenum	0.0074J	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 20:03	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 20:03	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 12:51	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	54.0	mg/L	10.0	10.0	1		10/01/19 16:37			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	1.3	mg/L	1.0	0.60	1		10/02/19 04:01	16887-00-6		
Fluoride	ND	mg/L	0.30	0.050	1		10/02/19 04:01	16984-48-8		
Sulfate	4.3	mg/L	1.0	0.50	1		10/02/19 04:01	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: YGWA-1D		Lab ID: 2623620004		Collected: 09/24/19 15:25		Received: 09/26/19 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	0.0014J	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 20:14	7440-38-2	
Barium	0.0072J	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 20:14	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 20:14	7440-41-7	
Boron	0.0064J	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 20:14	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 20:14	7440-43-9	
Calcium	15.8	mg/L	5.0	0.55	50	09/28/19 14:58	10/02/19 20:20	7440-70-2	
Chromium	0.00072J	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 20:14	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 20:14	7440-48-4	
Lithium	0.0046J	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 20:14	7439-93-2	
Molybdenum	0.0072J	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 20:14	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 20:14	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 12:53	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	124	mg/L	10.0	10.0	1		10/01/19 16:37		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	1.1	mg/L	1.0	0.60	1		10/02/19 04:45	16887-00-6	
Fluoride	0.063J	mg/L	0.30	0.050	1		10/02/19 04:45	16984-48-8	
Sulfate	5.3	mg/L	1.0	0.50	1		10/02/19 04:45	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: YGWA-3I		Lab ID: 2623620005		Collected: 09/25/19 12:20		Received: 09/26/19 15:15		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								
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 20:37	7440-38-2		
Barium	0.0050J	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 20:37	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 20:37	7440-41-7		
Boron	ND	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 20:37	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 20:37	7440-43-9		
Calcium	22.4	mg/L	5.0	0.55	50	09/28/19 14:58	10/02/19 20:43	7440-70-2		
Chromium	0.0019J	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 20:37	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 20:37	7440-48-4		
Lithium	0.010J	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 20:37	7439-93-2		
Molybdenum	0.0087J	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 20:37	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 20:37	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 13:00	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	159	mg/L	10.0	10.0	1		10/02/19 12:02			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	1.1	mg/L	1.0	0.60	1		10/02/19 05:00	16887-00-6		
Fluoride	0.10J	mg/L	0.30	0.050	1		10/02/19 05:00	16984-48-8		
Sulfate	13.8	mg/L	1.0	0.50	1		10/02/19 05:00	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: EB-1-9-25-19		Lab ID: 2623620006		Collected: 09/25/19 11:30		Received: 09/26/19 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 20:49	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 20:49	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 20:49	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 20:49	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 20:49	7440-43-9	
Calcium	ND	mg/L	0.10	0.011	1	09/28/19 14:58	10/02/19 20:49	7440-70-2	
Chromium	0.00056J	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 20:49	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 20:49	7440-48-4	
Lithium	ND	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 20:49	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 20:49	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 20:49	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 13:02	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	ND	mg/L	10.0	10.0	1		10/02/19 12:03		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	ND	mg/L	1.0	0.60	1		10/02/19 05:14	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		10/02/19 05:14	16984-48-8	
Sulfate	ND	mg/L	1.0	0.50	1		10/02/19 05:14	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: YGWA-3D		Lab ID: 2623620007		Collected: 09/25/19 13:40	Received: 09/26/19 15:15	Matrix: Water			
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 20:54	7440-38-2	
Barium	0.0059J	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 20:54	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 20:54	7440-41-7	
Boron	0.0054J	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 20:54	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 20:54	7440-43-9	
Calcium	29.5	mg/L	5.0	0.55	50	09/28/19 14:58	10/02/19 21:00	7440-70-2	
Chromium	0.0014J	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 20:54	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 20:54	7440-48-4	
Lithium	0.020J	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 20:54	7439-93-2	
Molybdenum	0.012	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 20:54	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 20:54	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 13:05	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	157	mg/L	10.0	10.0	1		10/02/19 12:03		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	1.1	mg/L	1.0	0.60	1		10/02/19 05:28	16887-00-6	
Fluoride	0.46	mg/L	0.30	0.050	1		10/02/19 05:28	16984-48-8	
Sulfate	7.0	mg/L	1.0	0.50	1		10/02/19 05:28	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: YGWC-29I		Lab ID: 2623620008		Collected: 09/25/19 15:30		Received: 09/26/19 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 21:06	7440-38-2	
Barium	0.061	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 21:06	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 21:06	7440-41-7	
Boron	0.73	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 21:06	7440-42-8	
Cadmium	0.00024J	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 21:06	7440-43-9	
Calcium	10.7	mg/L	5.0	0.55	50	09/28/19 14:58	10/02/19 21:12	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 21:06	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 21:06	7440-48-4	
Lithium	0.0057J	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 21:06	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 21:06	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 21:06	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 13:07	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	162	mg/L	10.0	10.0	1		10/02/19 12:03		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	11.3	mg/L	1.0	0.60	1		10/02/19 05:43	16887-00-6	
Fluoride	0.054J	mg/L	0.30	0.050	1		10/02/19 05:43	16984-48-8	
Sulfate	30.0	mg/L	1.0	0.50	1		10/02/19 05:43	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: YGWA-14S		Lab ID: 262362009		Collected: 09/25/19 11:05		Received: 09/26/19 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 21:17	7440-38-2	
Barium	0.0071J	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 21:17	7440-39-3	
Beryllium	0.00018J	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 21:17	7440-41-7	
Boron	0.018J	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 21:17	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 21:17	7440-43-9	
Calcium	1.1	mg/L	0.10	0.011	1	09/28/19 14:58	10/02/19 21:17	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 21:17	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 21:17	7440-48-4	
Lithium	ND	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 21:17	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 21:17	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 21:17	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 13:10	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	64.0	mg/L	10.0	10.0	1		10/02/19 12:03		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	4.8	mg/L	1.0	0.60	1		10/02/19 05:57	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		10/02/19 05:57	16984-48-8	
Sulfate	6.6	mg/L	1.0	0.50	1		10/02/19 05:57	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2623620

Sample: YGWA-30I		Lab ID: 2623620010		Collected: 09/25/19 13:30		Received: 09/26/19 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 21:40	7440-38-2	
Barium	0.0066J	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 21:40	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 21:40	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 21:40	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 21:40	7440-43-9	
Calcium	1.1	mg/L	0.10	0.011	1	09/28/19 14:58	10/02/19 21:40	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 21:40	7440-47-3	
Cobalt	0.016	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 21:40	7440-48-4	
Lithium	0.0011J	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 21:40	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 21:40	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 21:40	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 13:12	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	51.0	mg/L	10.0	10.0	1		10/02/19 12:03		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	1.6	mg/L	1.0	0.60	1		10/02/19 06:12	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		10/02/19 06:12	16984-48-8	
Sulfate	0.81J	mg/L	1.0	0.50	1		10/02/19 06:12	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: YGWC-26S		Lab ID: 2623620011		Collected: 09/25/19 15:30		Received: 09/26/19 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 21:52	7440-38-2	
Barium	0.026	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 21:52	7440-39-3	
Beryllium	0.00011J	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 21:52	7440-41-7	
Boron	0.63	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 21:52	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 21:52	7440-43-9	
Calcium	11.6	mg/L	5.0	0.55	50	09/28/19 14:58	10/02/19 21:57	7440-70-2	
Chromium	0.0012J	mg/L	0.010	0.00039	1	11/04/19 13:14	11/05/19 16:29	7440-47-3	
Cobalt	0.0033J	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 21:52	7440-48-4	
Lithium	ND	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 21:52	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 21:52	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 21:52	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 13:14	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	190	mg/L	10.0	10.0	1		10/02/19 12:03		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	14.4	mg/L	1.0	0.60	1		10/02/19 06:56	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		10/02/19 06:56	16984-48-8	
Sulfate	97.0	mg/L	1.0	0.50	1		10/02/19 06:56	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: DUP-1		Lab ID: 2623620012		Collected: 09/25/19 00:00		Received: 09/26/19 15:15		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 22:03	7440-38-2	
Barium	0.0075J	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 22:03	7440-39-3	
Beryllium	0.00019J	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 22:03	7440-41-7	
Boron	0.020J	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 22:03	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 22:03	7440-43-9	
Calcium	1.2	mg/L	0.10	0.011	1	09/28/19 14:58	10/02/19 22:03	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	11/04/19 13:14	11/05/19 16:58	7440-47-3	
Cobalt	0.00083J	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 22:03	7440-48-4	
Lithium	ND	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 22:03	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 22:03	7439-98-7	
Selenium	0.0013J	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 22:03	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 13:17	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	59.0	mg/L	10.0	10.0	1		10/02/19 12:04		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993							
Chloride	4.9	mg/L	1.0	0.60	1		10/02/19 07:10	16887-00-6	
Fluoride	ND	mg/L	0.30	0.050	1		10/02/19 07:10	16984-48-8	
Sulfate	6.8	mg/L	1.0	0.50	1		10/02/19 07:10	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Sample: YGWC-26I		Lab ID: 2623620013		Collected: 09/25/19 16:50		Received: 09/26/19 15:15		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								
Arsenic	ND	mg/L	0.0050	0.00035	1	09/28/19 14:58	10/02/19 22:15	7440-38-2		
Barium	0.063	mg/L	0.010	0.00049	1	09/28/19 14:58	10/02/19 22:15	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	09/28/19 14:58	10/02/19 22:15	7440-41-7		
Boron	0.86	mg/L	0.040	0.0049	1	09/28/19 14:58	10/02/19 22:15	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	09/28/19 14:58	10/02/19 22:15	7440-43-9		
Calcium	15.6	mg/L	5.0	0.55	50	09/28/19 14:58	10/02/19 22:20	7440-70-2		
Chromium	0.00048J	mg/L	0.010	0.00039	1	09/28/19 14:58	10/02/19 22:15	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	09/28/19 14:58	10/02/19 22:15	7440-48-4		
Lithium	0.0073J	mg/L	0.030	0.00078	1	09/28/19 14:58	10/02/19 22:15	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	09/28/19 14:58	10/02/19 22:15	7439-98-7		
Selenium	0.0019J	mg/L	0.010	0.0013	1	09/28/19 14:58	10/02/19 22:15	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	10/02/19 10:22	10/03/19 13:19	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	225	mg/L	10.0	10.0	1		10/02/19 12:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0 Rev 2.1 1993								
Chloride	17.1	mg/L	1.0	0.60	1		10/01/19 18:18	16887-00-6	M1	
Fluoride	0.064J	mg/L	0.30	0.050	1		10/01/19 18:18	16984-48-8	M1	
Sulfate	80.1	mg/L	1.0	0.50	1		10/01/19 18:18	14808-79-8	M1	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2623620

QC Batch: 36320

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2623620001, 2623620002, 2623620003, 2623620004, 2623620005, 2623620006, 2623620007, 2623620008, 2623620009, 2623620010, 2623620011, 2623620012, 2623620013

METHOD BLANK: 163943

Matrix: Water

Associated Lab Samples: 2623620001, 2623620002, 2623620003, 2623620004, 2623620005, 2623620006, 2623620007, 2623620008, 2623620009, 2623620010, 2623620011, 2623620012, 2623620013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	10/03/19 12:32	

LABORATORY CONTROL SAMPLE: 163944

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 163945 163946

Parameter	Units	2623620001 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	0.0022	0.0022	87	88	75-125	1	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

QC Batch: 36136 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623620001, 2623620002, 2623620003, 2623620004, 2623620005, 2623620006, 2623620007, 2623620008, 2623620009, 2623620010, 2623620011, 2623620012, 2623620013

METHOD BLANK: 163251 Matrix: Water
Associated Lab Samples: 2623620001, 2623620002, 2623620003, 2623620004, 2623620005, 2623620006, 2623620007, 2623620008, 2623620009, 2623620010, 2623620011, 2623620012, 2623620013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00035	10/02/19 18:26	
Barium	mg/L	ND	0.010	0.00049	10/02/19 18:26	
Beryllium	mg/L	ND	0.0030	0.000074	10/02/19 18:26	
Boron	mg/L	ND	0.040	0.0049	10/02/19 18:26	
Cadmium	mg/L	ND	0.0025	0.00011	10/02/19 18:26	
Calcium	mg/L	ND	0.10	0.011	10/02/19 18:26	
Chromium	mg/L	ND	0.010	0.00039	10/02/19 18:26	
Cobalt	mg/L	ND	0.0050	0.00030	10/02/19 18:26	
Lithium	mg/L	ND	0.030	0.00078	10/02/19 18:26	
Molybdenum	mg/L	ND	0.010	0.00095	10/02/19 18:26	
Selenium	mg/L	ND	0.010	0.0013	10/02/19 18:26	

LABORATORY CONTROL SAMPLE: 163252

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.098	98	80-120	
Barium	mg/L	0.1	0.099	99	80-120	
Beryllium	mg/L	0.1	0.096	96	80-120	
Boron	mg/L	1	0.97	97	80-120	
Cadmium	mg/L	0.1	0.099	99	80-120	
Calcium	mg/L	1	0.98	98	80-120	
Chromium	mg/L	0.1	0.098	98	80-120	
Cobalt	mg/L	0.1	0.097	97	80-120	
Lithium	mg/L	0.1	0.098	98	80-120	
Molybdenum	mg/L	0.1	0.10	103	80-120	
Selenium	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 163253 163254

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		2623567001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Arsenic	mg/L	ND	0.1	0.1	0.10	0.10	105	102	75-125	2	20	
Barium	mg/L	0.053	0.1	0.1	0.16	0.16	107	108	75-125	1	20	
Beryllium	mg/L	ND	0.1	0.1	0.097	0.096	97	96	75-125	1	20	
Boron	mg/L	2.8	1	1	3.8	4.2	101	139	75-125	10	20	
Cadmium	mg/L	0.00020J	0.1	0.1	0.10	0.098	102	98	75-125	4	20	
Calcium	mg/L	113	1	1	105	114	-820	112	75-125	9	20 M6	

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2623620

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 163253												163254	
Parameter	Units	2623567001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max	Qual	
			Spike Conc.	Spike Conc.							RPD		
Chromium	mg/L	ND	0.1	0.1	0.10	0.10	103	103	75-125	0	20		
Cobalt	mg/L	0.0015J	0.1	0.1	0.10	0.10	102	102	75-125	0	20		
Lithium	mg/L	0.0024J	0.1	0.1	0.10	0.10	98	98	75-125	0	20		
Molybdenum	mg/L	0.54	0.1	0.1	0.63	0.64	85	93	75-125	1	20		
Selenium	mg/L	ND	0.1	0.1	0.10	0.10	103	101	75-125	2	20		

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2623620

QC Batch: 38135 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623620011, 2623620012

METHOD BLANK: 173279 Matrix: Water

Associated Lab Samples: 2623620011, 2623620012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	mg/L	ND	0.010	0.00039	11/05/19 16:18	

LABORATORY CONTROL SAMPLE: 173280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	0.1	0.10	100	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173282 173283

Parameter	Units	2623620011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	102	75-125	0	20	

SAMPLE DUPLICATE: 173281

Parameter	Units	2623620011 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium	mg/L	0.0012J	0.0013J		20	

SAMPLE DUPLICATE: 173284

Parameter	Units	2623620012 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 173285

Parameter	Units	2623700001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium	mg/L	ND	0.00052J		20	

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

QC Batch: 36262 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2623620001, 2623620002, 2623620003, 2623620004

LABORATORY CONTROL SAMPLE: 163778

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	357	89	84-108	

SAMPLE DUPLICATE: 163780

Parameter	Units	2623620001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	146	139	5	10	

SAMPLE DUPLICATE: 163844

Parameter	Units	2623559001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	133	124	7	10	

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

QC Batch: 36325 Analysis Method: SM 2540C
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2623620005, 2623620006, 2623620007, 2623620008, 2623620009, 2623620010, 2623620011, 2623620012, 2623620013

LABORATORY CONTROL SAMPLE: 164004

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	421	105	84-108	

SAMPLE DUPLICATE: 164005

Parameter	Units	2623620005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	159	152	5	10	

SAMPLE DUPLICATE: 164006

Parameter	Units	2623623005 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	81.0	83.0	2	10	

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

QC Batch: 500862 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: 2623620001, 2623620002, 2623620003, 2623620004, 2623620005, 2623620006, 2623620007, 2623620008, 2623620009, 2623620010, 2623620011, 2623620012

METHOD BLANK: 2694304 Matrix: Water
Associated Lab Samples: 2623620001, 2623620002, 2623620003, 2623620004, 2623620005, 2623620006, 2623620007, 2623620008, 2623620009, 2623620010, 2623620011, 2623620012

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/02/19 11:06	
Fluoride	mg/L	ND	0.10	0.050	10/02/19 11:06	
Sulfate	mg/L	ND	1.0	0.50	10/02/19 11:06	

LABORATORY CONTROL SAMPLE: 2694305

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.4	99	90-110	
Fluoride	mg/L	2.5	2.3	92	90-110	
Sulfate	mg/L	50	51.7	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2694306 2694307

Parameter	Units	2623623006		2694307		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	2.8	50	50	54.3	54.8	103	104	90-110	1	10
Fluoride	mg/L	ND	2.5	2.5	2.5	2.5	98	99	90-110	1	10
Sulfate	mg/L	ND	50	50	51.6	51.9	103	104	90-110	1	10

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2694308 2694309

Parameter	Units	2623620003		2694309		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result						
Chloride	mg/L	1.3	50	50	53.2	50.5	104	98	90-110	5	10
Fluoride	mg/L	ND	2.5	2.5	2.4	2.3	96	92	90-110	5	10
Sulfate	mg/L	4.3	50	50	56.1	53.4	104	98	90-110	5	10

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QUALITY CONTROL DATA

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

QC Batch: 500864 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: 2623620013

METHOD BLANK: 2694310 Matrix: Water
Associated Lab Samples: 2623620013

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	ND	1.0	0.60	10/01/19 17:49	
Fluoride	mg/L	ND	0.10	0.050	10/01/19 17:49	
Sulfate	mg/L	ND	1.0	0.50	10/01/19 17:49	

LABORATORY CONTROL SAMPLE: 2694311

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	50	49.0	98	90-110	
Fluoride	mg/L	2.5	2.7	108	90-110	
Sulfate	mg/L	50	50.5	101	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2694312 2694313

Parameter	Units	2623620013		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	17.1	50	50	74.9	69.9	115	105	90-110	7	10	M1	
Fluoride	mg/L	0.064J	2.5	2.5	2.9	2.7	115	104	90-110	10	10	M1	
Sulfate	mg/L	80.1	50	50	123	123	85	86	90-110	0	10	M1	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 2694314 2694315

Parameter	Units	92447530001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Conc.	Result	Result						
Chloride	mg/L	22.7	50	50	76.0	75.5	107	106	90-110	1	10		
Fluoride	mg/L	0.073J	2.5	2.5	2.7	2.7	107	106	90-110	1	10		
Sulfate	mg/L	10.1	50	50	64.0	63.6	108	107	90-110	1	10		

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QUALIFIERS

Project: Plant Yates - Ash Pond 2

Pace Project No.: 2623620

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

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2623620001	YGWA-2I	EPA 3005A	36136	EPA 6020B	36312
2623620002	FB-1-9-24-19	EPA 3005A	36136	EPA 6020B	36312
2623620003	YGWA-1I	EPA 3005A	36136	EPA 6020B	36312
2623620004	YGWA-1D	EPA 3005A	36136	EPA 6020B	36312
2623620005	YGWA-3I	EPA 3005A	36136	EPA 6020B	36312
2623620006	EB-1-9-25-19	EPA 3005A	36136	EPA 6020B	36312
2623620007	YGWA-3D	EPA 3005A	36136	EPA 6020B	36312
2623620008	YGWC-29I	EPA 3005A	36136	EPA 6020B	36312
2623620009	YGWA-14S	EPA 3005A	36136	EPA 6020B	36312
2623620010	YGWA-30I	EPA 3005A	36136	EPA 6020B	36312
2623620011	YGWC-26S	EPA 3005A	36136	EPA 6020B	36312
2623620011	YGWC-26S	EPA 3005A	38135	EPA 6020B	38160
2623620012	DUP-1	EPA 3005A	36136	EPA 6020B	36312
2623620012	DUP-1	EPA 3005A	38135	EPA 6020B	38160
2623620013	YGWC-26I	EPA 3005A	36136	EPA 6020B	36312
2623620001	YGWA-2I	EPA 7470A	36320	EPA 7470A	36357
2623620002	FB-1-9-24-19	EPA 7470A	36320	EPA 7470A	36357
2623620003	YGWA-1I	EPA 7470A	36320	EPA 7470A	36357
2623620004	YGWA-1D	EPA 7470A	36320	EPA 7470A	36357
2623620005	YGWA-3I	EPA 7470A	36320	EPA 7470A	36357
2623620006	EB-1-9-25-19	EPA 7470A	36320	EPA 7470A	36357
2623620007	YGWA-3D	EPA 7470A	36320	EPA 7470A	36357
2623620008	YGWC-29I	EPA 7470A	36320	EPA 7470A	36357
2623620009	YGWA-14S	EPA 7470A	36320	EPA 7470A	36357
2623620010	YGWA-30I	EPA 7470A	36320	EPA 7470A	36357
2623620011	YGWC-26S	EPA 7470A	36320	EPA 7470A	36357
2623620012	DUP-1	EPA 7470A	36320	EPA 7470A	36357
2623620013	YGWC-26I	EPA 7470A	36320	EPA 7470A	36357
2623620001	YGWA-2I	SM 2540C	36262		
2623620002	FB-1-9-24-19	SM 2540C	36262		
2623620003	YGWA-1I	SM 2540C	36262		
2623620004	YGWA-1D	SM 2540C	36262		
2623620005	YGWA-3I	SM 2540C	36325		
2623620006	EB-1-9-25-19	SM 2540C	36325		
2623620007	YGWA-3D	SM 2540C	36325		
2623620008	YGWC-29I	SM 2540C	36325		
2623620009	YGWA-14S	SM 2540C	36325		
2623620010	YGWA-30I	SM 2540C	36325		
2623620011	YGWC-26S	SM 2540C	36325		
2623620012	DUP-1	SM 2540C	36325		
2623620013	YGWC-26I	SM 2540C	36325		
2623620001	YGWA-2I	EPA 300.0 Rev 2.1 1993	500862		
2623620002	FB-1-9-24-19	EPA 300.0 Rev 2.1 1993	500862		
2623620003	YGWA-1I	EPA 300.0 Rev 2.1 1993	500862		
2623620004	YGWA-1D	EPA 300.0 Rev 2.1 1993	500862		

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates - Ash Pond 2
Pace Project No.: 2623620

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2623620005	YGWA-3I	EPA 300.0 Rev 2.1 1993	500862		
2623620006	EB-1-9-25-19	EPA 300.0 Rev 2.1 1993	500862		
2623620007	YGWA-3D	EPA 300.0 Rev 2.1 1993	500862		
2623620008	YGWC-29I	EPA 300.0 Rev 2.1 1993	500862		
2623620009	YGWA-14S	EPA 300.0 Rev 2.1 1993	500862		
2623620010	YGWA-30I	EPA 300.0 Rev 2.1 1993	500862		
2623620011	YGWC-26S	EPA 300.0 Rev 2.1 1993	500862		
2623620012	DUP-1	EPA 300.0 Rev 2.1 1993	500862		
2623620013	YGWC-26I	EPA 300.0 Rev 2.1 1993	500864		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

PAGE: 1

OF 3

Form containing client information, project details, analysis requested table, and shipping information. Includes fields for Client Name, Address, Project Name, and a table with columns for Collection Date, Matrix Code, Sample Identification, and Analysis Requested.

WO#: 2623620



APP III, plus Detected APP IV

Detected APP IV: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lithium, Mercury, Molybdenum, Selenium, Radium
Golded Detections: Listed above or included with App III

2019-08 Yates Ash Pond 2- Blank COCs (2)



Sample Condition Upon Receipt

Client Name: GIA Power

Project # _____

WO#: **2623620**

PM: **BM** Due Date: **10/03/19**

CLIENT: **GAPower-CCR**

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 8.3 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.2 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/26/19 md

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)



November 08, 2019

Mr. Matt Malone
Atlantic Coast Consulting, Inc.
1150 Northmeadow Pkwy, Suite 100
Roswell, GA 30076

RE: Pace Analytical Services – Atlanta Projects 2623620 and 2623700
(Plant Yates Ash Pond 2)

Dear Mr. Malone:

The purpose of this communication is to provide additional narrative for the above referenced projects. Project 2623620 was received in the Atlanta facility on September 26, 2019 for Metals analysis and the final report for the project was issued October 03, 2019. Project 2623700 was received in the Atlanta facility on September 27, 2019 for Metals analysis and the final report for the project was issued October 07, 2019.

Upon client request, a review of the EPA 6020B Chromium and Molybdenum results was performed for samples 2623620 -011 and -012 (Chromium) and 2623700001 (Chromium and Molybdenum) as the original results for these metals were not consistent with historical results. Samples 2623620 -011, -012, and 2623700001 were rerun in duplicate on November 5, 2019. Results from the duplicate reruns confirmed that the Chromium and Molybdenum results from original run were errant and a revised report was issued on November 08, 2019 with results reported from the rerun samples.

Comparison of the original and reruns of the Chromium and Molybdenum data indicated that the results were potentially impacted by contamination during the digestion process. There was no indication of batch contamination for these metals in the blank or other QC samples.

Pace Analytical Services has a commitment to provide quality analytical data to each of our clients to meet all of their regulatory and business needs. Pace Atlanta regrets the unfortunate incident that has occurred with the samples provided for the Plant Yates project.

If you need any additional information concerning this or other issues relative to our laboratory or quality programs, please feel free to contact myself or your project manager.

Sincerely,

Karen Greene
Quality Manager
karen.greene@pacelabs.com

October 24, 2019

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

RE: Project: Plant Yates - Ash Pond 2 RAD
Pace Project No.: 2623622

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 26, 2019. 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,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Pennsylvania Certification IDs

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: Plant Yates - Ash Pond 2 RAD
Pace Project No.: 2623622

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2623622001	YGWA-2I	Water	09/24/19 11:20	09/26/19 15:15
2623622002	FB-1-9-24-19	Water	09/24/19 12:20	09/26/19 15:15
2623622003	YGWA-1I	Water	09/24/19 14:05	09/26/19 15:15
2623622004	YGWA-1D	Water	09/24/19 15:25	09/26/19 15:15
2623622005	YGWA-3I	Water	09/25/19 12:20	09/26/19 15:15
2623622006	EB-1-9-25-19	Water	09/25/19 11:30	09/26/19 15:15
2623622007	YGWA-3D	Water	09/25/19 13:40	09/26/19 15:15
2623622008	YGWC-29I	Water	09/25/19 15:30	09/26/19 15:15
2623622009	YGWA-14S	Water	09/25/19 11:05	09/26/19 15:15
2623622010	YGWA-30I	Water	09/25/19 13:30	09/26/19 15:15
2623622011	YGWC-26S	Water	09/25/19 15:30	09/26/19 15:15
2623622012	DUP-1	Water	09/25/19 00:00	09/26/19 15:15
2623622013	YGWC-26I	Water	09/25/19 16:50	09/26/19 15:15

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2623622001	YGWA-2I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622002	FB-1-9-24-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622003	YGWA-1I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622004	YGWA-1D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622005	YGWA-3I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622006	EB-1-9-25-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622007	YGWA-3D	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622008	YGWC-29I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622009	YGWA-14S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622010	YGWA-30I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622011	YGWC-26S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622012	DUP-1	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623622013	YGWC-26I	EPA 9315	LAL	1	PASI-PA

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SAMPLE ANALYTE COUNT

Project: Plant Yates - Ash Pond 2 RAD
Pace Project No.: 2623622

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWA-2I **Lab ID: 2623622001** Collected: 09/24/19 11:20 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.191 ± 0.268 (0.584) C:93% T:NA	pCi/L	10/16/19 08:20	13982-63-3	
Radium-228	EPA 9320	0.238 ± 0.360 (0.776) C:75% T:79%	pCi/L	10/18/19 14:14	15262-20-1	
Total Radium	Total Radium Calculation	0.429 ± 0.628 (1.36)	pCi/L	10/21/19 11:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: FB-1-9-24-19 **Lab ID: 2623622002** Collected: 09/24/19 12:20 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.182 ± 0.204 (0.401) C:98% T:NA	pCi/L	10/16/19 08:21	13982-63-3	
Radium-228	EPA 9320	0.655 ± 0.440 (0.834) C:74% T:74%	pCi/L	10/18/19 14:14	15262-20-1	
Total Radium	Total Radium Calculation	0.837 ± 0.644 (1.24)	pCi/L	10/21/19 11:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWA-11 **Lab ID: 2623622003** Collected: 09/24/19 14:05 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.383 ± 0.285 (0.496) C:95% T:NA	pCi/L	10/16/19 08:21	13982-63-3	
Radium-228	EPA 9320	0.566 ± 0.402 (0.774) C:75% T:84%	pCi/L	10/18/19 14:14	15262-20-1	
Total Radium	Total Radium Calculation	0.949 ± 0.687 (1.27)	pCi/L	10/21/19 11:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWA-1D **Lab ID: 2623622004** Collected: 09/24/19 15:25 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.689 ± 0.377 (0.588) C:90% T:NA	pCi/L	10/16/19 08:21	13982-63-3	
Radium-228	EPA 9320	0.531 ± 0.396 (0.779) C:80% T:86%	pCi/L	10/18/19 14:14	15262-20-1	
Total Radium	Total Radium Calculation	1.22 ± 0.773 (1.37)	pCi/L	10/21/19 11:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWA-3I **Lab ID: 2623622005** Collected: 09/25/19 12:20 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	1.18 ± 0.427 (0.414) C:98% T:NA	pCi/L	10/16/19 08:21	13982-63-3	
Radium-228	EPA 9320	0.419 ± 0.468 (0.982) C:77% T:73%	pCi/L	10/18/19 14:14	15262-20-1	
Total Radium	Total Radium Calculation	1.60 ± 0.895 (1.40)	pCi/L	10/21/19 11:42	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: EB-1-9-25-19 **Lab ID: 2623622006** Collected: 09/25/19 11:30 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.623 ± 0.316 (0.392) C:92% T:NA	pCi/L	10/16/19 08:22	13982-63-3	
Radium-228	EPA 9320	0.0772 ± 0.402 (0.912) C:78% T:78%	pCi/L	10/22/19 15:57	15262-20-1	
Total Radium	Total Radium Calculation	0.700 ± 0.718 (1.30)	pCi/L	10/24/19 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWA-3D **Lab ID: 2623622007** Collected: 09/25/19 13:40 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.02 ± 0.637 (0.520) C:70% T:NA	pCi/L	10/16/19 09:15	13982-63-3	
Radium-228	EPA 9320	2.18 ± 0.632 (0.770) C:80% T:85%	pCi/L	10/22/19 15:57	15262-20-1	
Total Radium	Total Radium Calculation	4.20 ± 1.27 (1.29)	pCi/L	10/24/19 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWC-291 **Lab ID: 2623622008** Collected: 09/25/19 15:30 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.708 ± 0.351 (0.451) C:84% T:NA	pCi/L	10/16/19 08:22	13982-63-3	
Radium-228	EPA 9320	0.326 ± 0.370 (0.778) C:78% T:87%	pCi/L	10/22/19 15:57	15262-20-1	
Total Radium	Total Radium Calculation	1.03 ± 0.721 (1.23)	pCi/L	10/24/19 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWA-14S **Lab ID: 2623622009** Collected: 09/25/19 11:05 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.514 ± 0.361 (0.638) C:75% T:NA	pCi/L	10/16/19 08:22	13982-63-3	
Radium-228	EPA 9320	0.193 ± 0.383 (0.843) C:80% T:82%	pCi/L	10/22/19 15:57	15262-20-1	
Total Radium	Total Radium Calculation	0.707 ± 0.744 (1.48)	pCi/L	10/24/19 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWA-30I **Lab ID: 2623622010** Collected: 09/25/19 13:30 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.410 ± 0.279 (0.460) C:96% T:NA	pCi/L	10/16/19 08:22	13982-63-3	
Radium-228	EPA 9320	0.613 ± 0.467 (0.925) C:66% T:85%	pCi/L	10/22/19 15:57	15262-20-1	
Total Radium	Total Radium Calculation	1.02 ± 0.746 (1.39)	pCi/L	10/24/19 12:46	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWC-26S **Lab ID: 2623622011** Collected: 09/25/19 15:30 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.388 ± 0.281 (0.464) C:81% T:NA	pCi/L	10/16/19 08:22	13982-63-3	
Radium-228	EPA 9320	0.787 ± 0.425 (0.761) C:73% T:84%	pCi/L	10/22/19 15:57	15262-20-1	
Total Radium	Total Radium Calculation	1.18 ± 0.706 (1.23)	pCi/L	10/24/19 12:46	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: DUP-1 **Lab ID: 2623622012** Collected: 09/25/19 00:00 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.134 ± 0.215 (0.478) C:89% T:NA	pCi/L	10/16/19 08:23	13982-63-3	
Radium-228	EPA 9320	0.518 ± 0.403 (0.797) C:74% T:80%	pCi/L	10/22/19 15:57	15262-20-1	
Total Radium	Total Radium Calculation	0.652 ± 0.618 (1.28)	pCi/L	10/24/19 12:46	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

Sample: YGWC-261 **Lab ID: 2623622013** Collected: 09/25/19 16:50 Received: 09/26/19 15:15 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.668 ± 0.335 (0.427) C:87% T:NA	pCi/L	10/16/19 08:23	13982-63-3	
Radium-228	EPA 9320	0.342 ± 0.441 (0.940) C:70% T:81%	pCi/L	10/22/19 15:57	15262-20-1	
Total Radium	Total Radium Calculation	1.01 ± 0.776 (1.37)	pCi/L	10/24/19 12:46	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

QC Batch:	365382	Analysis Method:	EPA 9320
QC Batch Method:	EPA 9320	Analysis Description:	9320 Radium 228
Associated Lab Samples:	2623622006, 2623622007, 2623622008, 2623622009, 2623622010, 2623622011, 2623622012, 2623622013		

METHOD BLANK:	1772187	Matrix:	Water
Associated Lab Samples:	2623622006, 2623622007, 2623622008, 2623622009, 2623622010, 2623622011, 2623622012, 2623622013		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.573 ± 0.379 (0.723) C:78% T:84%	pCi/L	10/22/19 15:57	

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

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

QC Batch: 365381

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2623622001, 2623622002, 2623622003, 2623622004, 2623622005

METHOD BLANK: 1772186

Matrix: Water

Associated Lab Samples: 2623622001, 2623622002, 2623622003, 2623622004, 2623622005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.0377 ± 0.401 (0.924) C:77% T:72%	pCi/L	10/18/19 14:14	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

QC Batch: 365377 Analysis Method: EPA 9315
 QC Batch Method: EPA 9315 Analysis Description: 9315 Total Radium
 Associated Lab Samples: 2623622001, 2623622002, 2623622003, 2623622004, 2623622005

METHOD BLANK: 1772182 Matrix: Water
 Associated Lab Samples: 2623622001, 2623622002, 2623622003, 2623622004, 2623622005

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.373 ± 0.153 (0.180) C:94% T:NA	pCi/L	10/15/19 19:08	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

QC Batch:	365379	Analysis Method:	EPA 9315
QC Batch Method:	EPA 9315	Analysis Description:	9315 Total Radium
Associated Lab Samples:	2623622006, 2623622007, 2623622008, 2623622009, 2623622010, 2623622011, 2623622012, 2623622013		

METHOD BLANK:	1772184	Matrix:	Water
Associated Lab Samples:	2623622006, 2623622007, 2623622008, 2623622009, 2623622010, 2623622011, 2623622012, 2623622013		

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.298 ± 0.261 (0.477) C:93% T:NA	pCi/L	10/16/19 08:22	

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

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates - Ash Pond 2 RAD

Pace Project No.: 2623622

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.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates - Ash Pond 2 RAD
Pace Project No.: 2623622

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2623622001	YGWA-2I	EPA 9315	365377		
2623622002	FB-1-9-24-19	EPA 9315	365377		
2623622003	YGWA-1I	EPA 9315	365377		
2623622004	YGWA-1D	EPA 9315	365377		
2623622005	YGWA-3I	EPA 9315	365377		
2623622006	EB-1-9-25-19	EPA 9315	365379		
2623622007	YGWA-3D	EPA 9315	365379		
2623622008	YGWC-29I	EPA 9315	365379		
2623622009	YGWA-14S	EPA 9315	365379		
2623622010	YGWA-30I	EPA 9315	365379		
2623622011	YGWC-26S	EPA 9315	365379		
2623622012	DUP-1	EPA 9315	365379		
2623622013	YGWC-26I	EPA 9315	365379		
2623622001	YGWA-2I	EPA 9320	365381		
2623622002	FB-1-9-24-19	EPA 9320	365381		
2623622003	YGWA-1I	EPA 9320	365381		
2623622004	YGWA-1D	EPA 9320	365381		
2623622005	YGWA-3I	EPA 9320	365381		
2623622006	EB-1-9-25-19	EPA 9320	365382		
2623622007	YGWA-3D	EPA 9320	365382		
2623622008	YGWC-29I	EPA 9320	365382		
2623622009	YGWA-14S	EPA 9320	365382		
2623622010	YGWA-30I	EPA 9320	365382		
2623622011	YGWC-26S	EPA 9320	365382		
2623622012	DUP-1	EPA 9320	365382		
2623622013	YGWC-26I	EPA 9320	365382		
2623622001	YGWA-2I	Total Radium Calculation	367110		
2623622002	FB-1-9-24-19	Total Radium Calculation	367110		
2623622003	YGWA-1I	Total Radium Calculation	367110		
2623622004	YGWA-1D	Total Radium Calculation	367110		
2623622005	YGWA-3I	Total Radium Calculation	367110		
2623622006	EB-1-9-25-19	Total Radium Calculation	367752		
2623622007	YGWA-3D	Total Radium Calculation	367752		
2623622008	YGWC-29I	Total Radium Calculation	367752		
2623622009	YGWA-14S	Total Radium Calculation	367752		
2623622010	YGWA-30I	Total Radium Calculation	367752		
2623622011	YGWC-26S	Total Radium Calculation	367752		
2623622012	DUP-1	Total Radium Calculation	367752		
2623622013	YGWC-26I	Total Radium Calculation	367752		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
(770) 734-4200 : FAX (770) 734-4201

PAGE: 1

OF 3

CLIENT NAME: Georgia Power
CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185
Atlanta, GA 30308
404-506-7239
REPORT TO: Joju Abraham
REQUESTED COMPLETION DATE:
PROJECT NAME/STATE: Plant Yates - Ash Pond 2
PROJECT #:

ANALYSIS REQUESTED

Table with columns for ANALYSIS REQUESTED (Metals App. III, Boron, Calcium, Cl, F, SO4 & TDS, etc.), CONTAINER TYPE, and PRESERVATION.

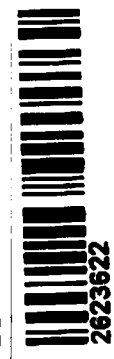
CONTAINER TYPE: P - PLASTIC, A - AMBER GLASS, G - CLEAR GLASS, V - VOA VIAL, S - STERILE, O - OTHER
PRESERVATION: 1 - HCl, 56°C, 2 - H2SO4, 56°C, 3 - HNO3, 4 - NaOH, 56°C, 5 - NaOH/2NaCl, 56°C, 6 - Na2S2O8, 56°C, 7 - 56°C not frozen

MATRIX CODES: DW - DRINKING WATER, WW - WASTEWATER, GW - GROUNDWATER, SW - SURFACE WATER, ST - STORM WATER, W - WATER, S - SOIL, SL - SLUDGE, SD - SOLID, A - AIR, L - LIQUID, P - PRODUCT

REMARKS/ADDITIONAL INFORMATION: APP III plus detected APP IV

Table with columns for CONTAINER TYPE, ANALYSIS REQUESTED, and PRESERVATION.

WO#: 2623622



LAB #:
Entered into LIMS:
Tracking #:

RELINQUISHED BY:
DATE/TIME: 9-26-19 1515

RELINQUISHED BY:
DATE/TIME:

SAMPLED BY AND TITLE:
RECEIVED BY:
RECEIVED BY LAB:
DATE/TIME: 9/26/19 1515

Table with columns for ANALYSIS REQUESTED, CONTAINER TYPE, PRESERVATION, and various tracking and custody fields.

APP III, plus Detected APP IV
Detected APP IV: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lithium, Mercury, Molybdenum, Selenium, Radium
Bolded Detections: Listed above or included with App III
2019-08 Yates Ash Pond 2 - Blank COCs (2)



Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 2 OF 3

CHAIN OF CUSTODY RECORD

CLIENT NAME:
 Georgia Power
 CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER:
 241 Ralph McGill Blvd SE B10185
 Atlanta, GA 30308
 404-508-7239
 REPORT TO: Joju Abraham
 REQUESTED COMPLETION DATE: PO #:
 PROJECT NAME/STATE: Plant Yates - Ash Pond 2
 PROJECT #:

ANALYSIS REQUESTED

CONTAINER TYPE	PRESERVATION	# of	P	P	P	P
			3	7	3	
C O N T A I N E R S						
		6	✓	✓	✓	✓
			Metals App. III (EPA 8210-703)	Boron, Calcium	Cl, F, SO ₄ & TDS (EPA 300.0 & SM 2540C)	Detected App IV (See List below)
						Del. App. IV Radium 228 & 228 (SW-846 9315/9320)

CONTAINER TYPE

P - PLASTIC
 A - AMBER GLASS
 G - CLEAR GLASS
 V - VOA VIAL
 S - STERILE
 O - OTHER

PRESERVATION

1 - HCl, 56°C
 2 - H₂SO₄, 56°C
 3 - HNO₃
 4 - NaOH, 56°C
 5 - NaOH/ZnAc, 56°C
 6 - Na₂S₂O₃, 56°C
 7 - 56°C not frozen

MATRIX CODES:

DW - DRINKING WATER S - SOIL
 WW - WASTEWATER SL - SLUDGE
 GW - GROUNDWATER SD - SOLID
 SW - SURFACE WATER A - AIR
 ST - STORM WATER L - LIQUID
 W - WATER P - PRODUCT

REMARKS/ADDITIONAL INFORMATION
 APP III plus detected APP IV

NO# : 2623622

PM: 8M Due Date: 10/24/19
 CLIENT: GAPover-CCR

SAMPLE IDENTIFICATION

Collection DATE	Collection TIME	MATRIX CODE*	C	G	R	A	B
9-25-19	1650	6w	X				

DATE/TIME: See Above

RECEIVED BY: [Signature]

RECEIVED BY LAB: [Signature]

DATE/TIME: 9-26-19 1515

TEMPERATURE: 0.2 Min: 0.2 Max:

UNDOORING: Yes No NA

ICE: Yes No NA

SEAL: Broken Not Present

SHIPMENT: UPS FED-EX USPS COURIER

COOLERS: 3 of Coolers

CLIENT ID: FS

OTHER: FS

TRACKING #:

LAB #:

ENTERED INTO LIMS:

FOR LAB USE ONLY

APP III, plus Detected APP IV

Detected APP IV: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lithium, Mercury, Molybdenum, Selenium, Radium
 Bolded Detections: Listed above or included with App III

2019-08 Yates Ash Pond 3 Blank COCs (2)

Sample Condition Upon Receipt



Client Name: GIA Power

Project # _____

WO# : 2623622

PM: **BM** Due Date: **10/24/19**
 CLIENT: **GAPower-CCR**

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

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 83 Type of Ice: Wet Blue None Samples on ice, cooling process has begun

Cooler Temperature 0.2 Biological Tissue is Frozen: Yes No
 Temp should be above freezing to 6°C

Date and Initials of person examining contents: 9/26/19 [Signature]

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)

December 11, 2019

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

RE: Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2019. 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.

This revised report replaces the report issued on 10/7/2019. The report has been revised to remove thallium data per consultant request. No other changes have been made to this report.

This revised report replaces the revised report issued on 10/25/2019. The report has been revised to correct errant metals data. Please note the QA memorandum at the back of the report. No other changes have been made to this report.

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

Sincerely,



Kevin Herring for
Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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December 11, 2019

Page 2

cc: Betsy McDaniel, Atlantic Coast Consulting
Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623700

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

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623700

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2623700001	Dup-2	Water	09/26/19 00:00	09/27/19 15:35
2623700002	YGWC-28S	Water	09/26/19 13:25	09/27/19 15:35
2623700003	EB-2-9-26-19	Water	09/26/19 13:55	09/27/19 15:35
2623700004	YGWC-28I	Water	09/26/19 14:25	09/27/19 15:35
2623700005	FB-2-9-26-19	Water	09/26/19 15:20	09/27/19 15:35
2623700006	YGWC-27S	Water	09/26/19 15:35	09/27/19 15:35
2623700007	YGWC-27I	Water	09/26/19 16:20	09/27/19 15:35

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Lab ID	Sample ID	Method	Analysts	Analytes Reported
2623700001	Dup-2	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2623700002	YGWC-28S	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2623700003	EB-2-9-26-19	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2623700004	YGWC-28I	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2623700005	FB-2-9-26-19	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2623700006	YGWC-27S	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3
2623700007	YGWC-27I	EPA 6020B	CSW	11
		EPA 7470A	DRB	1
		SM 2540C	ALW	1
		EPA 300.0	MWB	3

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Sample: Dup-2		Lab ID: 2623700001		Collected: 09/26/19 00:00		Received: 09/27/19 15:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	0.00076J	mg/L	0.0050	0.00035	1	09/30/19 13:30	10/03/19 18:48	7440-38-2	
Barium	0.17	mg/L	0.050	0.0024	5	09/30/19 13:30	10/04/19 15:56	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/30/19 13:30	10/03/19 18:48	7440-41-7	
Boron	2.5	mg/L	0.20	0.025	5	09/30/19 13:30	10/04/19 15:56	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/30/19 13:30	10/03/19 18:48	7440-43-9	
Calcium	25.3	mg/L	0.50	0.055	5	09/30/19 13:30	10/04/19 15:56	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	11/04/19 13:14	11/05/19 17:09	7440-47-3	
Cobalt	0.0034J	mg/L	0.0050	0.00030	1	09/30/19 13:30	10/03/19 18:48	7440-48-4	
Lithium	ND	mg/L	0.030	0.00078	1	09/30/19 13:30	10/03/19 18:48	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	11/04/19 13:14	11/05/19 17:09	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/30/19 13:30	10/03/19 18:48	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/03/19 17:10	10/04/19 11:15	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	237	mg/L	10.0	10.0	1		10/02/19 16:04		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	19.5	mg/L	1.0	0.024	1		10/01/19 00:24	16887-00-6	
Fluoride	0.27J	mg/L	0.30	0.029	1		10/01/19 00:24	16984-48-8	
Sulfate	1.8	mg/L	1.0	0.017	1		10/01/19 00:24	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Sample: YGWC-28S		Lab ID: 2623700002		Collected: 09/26/19 13:25	Received: 09/27/19 15:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	0.00057J	mg/L	0.0050	0.00035	1	09/30/19 13:30	10/03/19 19:16	7440-38-2		
Barium	0.18	mg/L	0.050	0.0024	5	09/30/19 13:30	10/04/19 16:01	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	09/30/19 13:30	10/03/19 19:16	7440-41-7		
Boron	2.5	mg/L	0.20	0.025	5	09/30/19 13:30	10/04/19 16:01	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	09/30/19 13:30	10/03/19 19:16	7440-43-9		
Calcium	26.1	mg/L	0.50	0.055	5	09/30/19 13:30	10/04/19 16:01	7440-70-2		
Chromium	ND	mg/L	0.010	0.00039	1	09/30/19 13:30	10/03/19 19:16	7440-47-3		
Cobalt	0.00098J	mg/L	0.0050	0.00030	1	09/30/19 13:30	10/03/19 19:16	7440-48-4		
Lithium	ND	mg/L	0.030	0.00078	1	09/30/19 13:30	10/03/19 19:16	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	09/30/19 13:30	10/03/19 19:16	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	09/30/19 13:30	10/03/19 19:16	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	10/03/19 17:10	10/04/19 11:17	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	239	mg/L	10.0	10.0	1		10/02/19 16:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	19.5	mg/L	1.0	0.024	1		10/01/19 01:05	16887-00-6		
Fluoride	0.28J	mg/L	0.30	0.029	1		10/01/19 01:05	16984-48-8		
Sulfate	1.6	mg/L	1.0	0.017	1		10/01/19 01:05	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Sample: EB-2-9-26-19		Lab ID: 2623700003		Collected: 09/26/19 13:55		Received: 09/27/19 15:35		Matrix: Water	
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A							
Arsenic	ND	mg/L	0.0050	0.00035	1	09/30/19 13:30	10/03/19 19:27	7440-38-2	
Barium	ND	mg/L	0.010	0.00049	1	09/30/19 13:30	10/03/19 19:27	7440-39-3	
Beryllium	ND	mg/L	0.0030	0.000074	1	09/30/19 13:30	10/03/19 19:27	7440-41-7	
Boron	ND	mg/L	0.040	0.0049	1	09/30/19 13:30	10/03/19 19:27	7440-42-8	
Cadmium	ND	mg/L	0.0025	0.00011	1	09/30/19 13:30	10/03/19 19:27	7440-43-9	
Calcium	ND	mg/L	0.10	0.011	1	09/30/19 13:30	10/03/19 19:27	7440-70-2	
Chromium	ND	mg/L	0.010	0.00039	1	09/30/19 13:30	10/03/19 19:27	7440-47-3	
Cobalt	ND	mg/L	0.0050	0.00030	1	09/30/19 13:30	10/03/19 19:27	7440-48-4	
Lithium	ND	mg/L	0.030	0.00078	1	09/30/19 13:30	10/03/19 19:27	7439-93-2	
Molybdenum	ND	mg/L	0.010	0.00095	1	09/30/19 13:30	10/03/19 19:27	7439-98-7	
Selenium	ND	mg/L	0.010	0.0013	1	09/30/19 13:30	10/03/19 19:27	7782-49-2	
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A							
Mercury	ND	mg/L	0.00050	0.00014	1	10/03/19 17:10	10/04/19 11:20	7439-97-6	
2540C Total Dissolved Solids		Analytical Method: SM 2540C							
Total Dissolved Solids	16.0	mg/L	10.0	10.0	1		10/02/19 16:04		
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0							
Chloride	0.056J	mg/L	1.0	0.024	1		10/01/19 01:26	16887-00-6	B
Fluoride	ND	mg/L	0.30	0.029	1		10/01/19 01:26	16984-48-8	
Sulfate	ND	mg/L	1.0	0.017	1		10/01/19 01:26	14808-79-8	

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ANALYTICAL RESULTS

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Sample: YGWC-28I		Lab ID: 2623700004		Collected: 09/26/19 14:25	Received: 09/27/19 15:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00035	1	09/30/19 13:30	10/03/19 19:33	7440-38-2		
Barium	0.087	mg/L	0.010	0.00049	1	09/30/19 13:30	10/03/19 19:33	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	09/30/19 13:30	10/03/19 19:33	7440-41-7		
Boron	2.8	mg/L	2.0	0.25	50	09/30/19 13:30	10/03/19 19:39	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	09/30/19 13:30	10/03/19 19:33	7440-43-9		
Calcium	32.0	mg/L	5.0	0.55	50	09/30/19 13:30	10/03/19 19:39	7440-70-2		
Chromium	0.00044J	mg/L	0.010	0.00039	1	09/30/19 13:30	10/03/19 19:33	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	09/30/19 13:30	10/03/19 19:33	7440-48-4		
Lithium	0.0064J	mg/L	0.030	0.00078	1	09/30/19 13:30	10/03/19 19:33	7439-93-2		
Molybdenum	0.0013J	mg/L	0.010	0.00095	1	09/30/19 13:30	10/03/19 19:33	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	09/30/19 13:30	10/03/19 19:33	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	10/03/19 17:10	10/04/19 11:22	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	241	mg/L	10.0	10.0	1		10/02/19 16:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	17.3	mg/L	1.0	0.024	1		10/01/19 01:47	16887-00-6		
Fluoride	0.29J	mg/L	0.30	0.029	1		10/01/19 01:47	16984-48-8		
Sulfate	7.9	mg/L	1.0	0.017	1		10/01/19 01:47	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Sample: FB-2-9-26-19		Lab ID: 2623700005		Collected: 09/26/19 15:20	Received: 09/27/19 15:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00035	1	09/30/19 13:30	10/03/19 19:44	7440-38-2		
Barium	ND	mg/L	0.010	0.00049	1	09/30/19 13:30	10/03/19 19:44	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	09/30/19 13:30	10/03/19 19:44	7440-41-7		
Boron	ND	mg/L	0.040	0.0049	1	09/30/19 13:30	10/03/19 19:44	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	09/30/19 13:30	10/03/19 19:44	7440-43-9		
Calcium	ND	mg/L	0.10	0.011	1	09/30/19 13:30	10/03/19 19:44	7440-70-2		
Chromium	ND	mg/L	0.010	0.00039	1	09/30/19 13:30	10/03/19 19:44	7440-47-3		
Cobalt	ND	mg/L	0.0050	0.00030	1	09/30/19 13:30	10/03/19 19:44	7440-48-4		
Lithium	ND	mg/L	0.030	0.00078	1	09/30/19 13:30	10/03/19 19:44	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	09/30/19 13:30	10/03/19 19:44	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	09/30/19 13:30	10/03/19 19:44	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	10/03/19 17:10	10/04/19 11:24	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	19.0	mg/L	10.0	10.0	1		10/02/19 16:04			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	0.069J	mg/L	1.0	0.024	1		10/01/19 02:07	16887-00-6	B	
Fluoride	0.033J	mg/L	0.30	0.029	1		10/01/19 02:07	16984-48-8		
Sulfate	ND	mg/L	1.0	0.017	1		10/01/19 02:07	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Sample: YGWC-27S		Lab ID: 2623700006		Collected: 09/26/19 15:35	Received: 09/27/19 15:35	Matrix: Water				
Parameters	Results	Units	Report Limit	MDL	DF	Prepared	Analyzed	CAS No.	Qual	
6020B MET ICPMS		Analytical Method: EPA 6020B Preparation Method: EPA 3005A								
Arsenic	ND	mg/L	0.0050	0.00035	1	09/30/19 13:30	10/03/19 19:50	7440-38-2		
Barium	0.099	mg/L	0.010	0.00049	1	09/30/19 13:30	10/03/19 19:50	7440-39-3		
Beryllium	ND	mg/L	0.0030	0.000074	1	09/30/19 13:30	10/03/19 19:50	7440-41-7		
Boron	1.5	mg/L	0.040	0.0049	1	09/30/19 13:30	10/03/19 19:50	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	09/30/19 13:30	10/03/19 19:50	7440-43-9		
Calcium	37.5	mg/L	5.0	0.55	50	09/30/19 13:30	10/03/19 19:56	7440-70-2		
Chromium	ND	mg/L	0.010	0.00039	1	09/30/19 13:30	10/03/19 19:50	7440-47-3		
Cobalt	0.0021J	mg/L	0.0050	0.00030	1	09/30/19 13:30	10/03/19 19:50	7440-48-4		
Lithium	ND	mg/L	0.030	0.00078	1	09/30/19 13:30	10/03/19 19:50	7439-93-2		
Molybdenum	ND	mg/L	0.010	0.00095	1	09/30/19 13:30	10/03/19 19:50	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	09/30/19 13:30	10/03/19 19:50	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	10/03/19 17:10	10/04/19 11:27	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	225	mg/L	10.0	10.0	1		10/03/19 16:27			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	19.6	mg/L	1.0	0.024	1		10/01/19 02:28	16887-00-6		
Fluoride	0.22J	mg/L	0.30	0.029	1		10/01/19 02:28	16984-48-8		
Sulfate	18.2	mg/L	1.0	0.017	1		10/01/19 02:28	14808-79-8		

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ANALYTICAL RESULTS

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Sample: YGWC-271		Lab ID: 2623700007		Collected: 09/26/19 16:20		Received: 09/27/19 15:35		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								
Arsenic	0.00058J	mg/L	0.0050	0.00035	1	09/30/19 13:30	10/03/19 20:02	7440-38-2		
Barium	0.065	mg/L	0.010	0.00049	1	09/30/19 13:30	10/03/19 20:02	7440-39-3		
Beryllium	0.00020J	mg/L	0.0030	0.000074	1	09/30/19 13:30	10/03/19 20:02	7440-41-7		
Boron	1.9	mg/L	0.040	0.0049	1	09/30/19 13:30	10/03/19 20:02	7440-42-8		
Cadmium	ND	mg/L	0.0025	0.00011	1	09/30/19 13:30	10/03/19 20:02	7440-43-9		
Calcium	24.2	mg/L	5.0	0.55	50	09/30/19 13:30	10/03/19 20:07	7440-70-2		
Chromium	ND	mg/L	0.010	0.00039	1	09/30/19 13:30	10/03/19 20:02	7440-47-3		
Cobalt	0.014	mg/L	0.0050	0.00030	1	09/30/19 13:30	10/03/19 20:02	7440-48-4		
Lithium	0.0075J	mg/L	0.030	0.00078	1	09/30/19 13:30	10/03/19 20:02	7439-93-2		
Molybdenum	0.0013J	mg/L	0.010	0.00095	1	09/30/19 13:30	10/03/19 20:02	7439-98-7		
Selenium	ND	mg/L	0.010	0.0013	1	09/30/19 13:30	10/03/19 20:02	7782-49-2		
7470 Mercury		Analytical Method: EPA 7470A Preparation Method: EPA 7470A								
Mercury	ND	mg/L	0.00050	0.00014	1	10/03/19 17:10	10/04/19 11:29	7439-97-6		
2540C Total Dissolved Solids		Analytical Method: SM 2540C								
Total Dissolved Solids	198	mg/L	10.0	10.0	1		10/03/19 16:27			
300.0 IC Anions 28 Days		Analytical Method: EPA 300.0								
Chloride	14.3	mg/L	1.0	0.024	1		10/01/19 02:49	16887-00-6		
Fluoride	0.14J	mg/L	0.30	0.029	1		10/01/19 02:49	16984-48-8		
Sulfate	4.2	mg/L	1.0	0.017	1		10/01/19 02:49	14808-79-8		

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QUALITY CONTROL DATA

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623700

QC Batch: 36428

Analysis Method: EPA 7470A

QC Batch Method: EPA 7470A

Analysis Description: 7470 Mercury

Associated Lab Samples: 2623700001, 2623700002, 2623700003, 2623700004, 2623700005, 2623700006, 2623700007

METHOD BLANK: 164509

Matrix: Water

Associated Lab Samples: 2623700001, 2623700002, 2623700003, 2623700004, 2623700005, 2623700006, 2623700007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Mercury	mg/L	ND	0.00050	0.00014	10/04/19 10:46	

LABORATORY CONTROL SAMPLE: 164510

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/L	0.0025	0.0025	101	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 164511 164512

Parameter	Units	164511		164512		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		2623696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result						
Mercury	mg/L	ND	0.0025	0.0025	0.0022	0.0022	88	88	75-125	0	20

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

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QUALITY CONTROL DATA

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

QC Batch: 36173 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623700001, 2623700002, 2623700003, 2623700004, 2623700005, 2623700006, 2623700007

METHOD BLANK: 163347 Matrix: Water
Associated Lab Samples: 2623700001, 2623700002, 2623700003, 2623700004, 2623700005, 2623700006, 2623700007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Arsenic	mg/L	ND	0.0050	0.00035	10/03/19 16:32	
Barium	mg/L	ND	0.010	0.00049	10/03/19 16:32	
Beryllium	mg/L	ND	0.0030	0.000074	10/03/19 16:32	
Boron	mg/L	ND	0.040	0.0049	10/03/19 16:32	
Cadmium	mg/L	ND	0.0025	0.00011	10/03/19 16:32	
Calcium	mg/L	ND	0.10	0.011	10/03/19 16:32	
Chromium	mg/L	ND	0.010	0.00039	10/03/19 16:32	
Cobalt	mg/L	ND	0.0050	0.00030	10/03/19 16:32	
Lithium	mg/L	ND	0.030	0.00078	10/03/19 16:32	
Molybdenum	mg/L	ND	0.010	0.00095	10/03/19 16:32	
Selenium	mg/L	ND	0.010	0.0013	10/03/19 16:32	

LABORATORY CONTROL SAMPLE: 163348

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/L	0.1	0.097	97	80-120	
Barium	mg/L	0.1	0.10	100	80-120	
Beryllium	mg/L	0.1	0.10	100	80-120	
Boron	mg/L	1	1.0	102	80-120	
Cadmium	mg/L	0.1	0.098	98	80-120	
Calcium	mg/L	1	0.99	99	80-120	
Chromium	mg/L	0.1	0.099	99	80-120	
Cobalt	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	102	80-120	
Selenium	mg/L	0.1	0.10	102	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 163349 163350

Parameter	Units	2623696001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Arsenic	mg/L	0.0013J	0.1	0.1	0.099	0.10	98	103	75-125	5	20	
Barium	mg/L	0.095	0.1	0.1	0.22	0.22	122	127	75-125	2	20	M1
Beryllium	mg/L	0.000099J	0.1	0.1	0.086	0.091	86	91	75-125	5	20	
Boron	mg/L	16.4	1	1	20.1	20.1	373	367	75-125	0	20	M6
Cadmium	mg/L	ND	0.1	0.1	0.090	0.093	90	93	75-125	3	20	
Calcium	mg/L	658	1	1	644	642	-1420	-1570	75-125	0	20	M6
Chromium	mg/L	ND	0.1	0.1	0.091	0.094	91	94	75-125	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623700

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 163349												163350	
Parameter	Units	2623696001 Result	MS	MSD	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
			Spike Conc.	Spike Conc.									
Cobalt	mg/L	0.027	0.1	0.1	0.12	0.12	89	92	75-125	3	20		
Lithium	mg/L	0.039	0.1	0.1	0.13	0.13	90	94	75-125	3	20		
Molybdenum	mg/L	0.045	0.1	0.1	0.14	0.15	96	102	75-125	4	20		
Selenium	mg/L	ND	0.1	0.1	0.098	0.11	97	105	75-125	8	20		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

QC Batch: 38135 Analysis Method: EPA 6020B
QC Batch Method: EPA 3005A Analysis Description: 6020B MET
Associated Lab Samples: 2623700001

METHOD BLANK: 173279 Matrix: Water
Associated Lab Samples: 2623700001

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chromium	mg/L	ND	0.010	0.00039	11/05/19 16:18	
Molybdenum	mg/L	ND	0.010	0.00095	11/05/19 16:18	

LABORATORY CONTROL SAMPLE: 173280

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	mg/L	0.1	0.10	100	80-120	
Molybdenum	mg/L	0.1	0.098	98	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 173282 173283

Parameter	Units	2623620011 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chromium	mg/L	0.0012J	0.1	0.1	0.10	0.10	102	102	75-125	0	20	
Molybdenum	mg/L	ND	0.1	0.1	0.099	0.10	99	100	75-125	1	20	

SAMPLE DUPLICATE: 173281

Parameter	Units	2623620011 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium	mg/L	0.0012J	0.0013J		20	
Molybdenum	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 173284

Parameter	Units	2623620012 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium	mg/L	ND	ND		20	
Molybdenum	mg/L	ND	ND		20	

SAMPLE DUPLICATE: 173285

Parameter	Units	2623700001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chromium	mg/L	ND	0.00052J		20	
Molybdenum	mg/L	ND	ND		20	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623700

QC Batch: 36344 Analysis Method: SM 2540C
 QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids
 Associated Lab Samples: 2623700001, 2623700002, 2623700003, 2623700004, 2623700005

LABORATORY CONTROL SAMPLE: 164074

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	419	105	84-108	

SAMPLE DUPLICATE: 164075

Parameter	Units	2623639001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	503	491	2	10	

SAMPLE DUPLICATE: 164076

Parameter	Units	2623623008 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	126	119	6	10	

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QUALITY CONTROL DATA

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623700

QC Batch: 36437	Analysis Method: SM 2540C
QC Batch Method: SM 2540C	Analysis Description: 2540C Total Dissolved Solids
Associated Lab Samples: 2623700006, 2623700007	

LABORATORY CONTROL SAMPLE: 164569

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	400	412	103	84-108	

SAMPLE DUPLICATE: 164570

Parameter	Units	2623700006 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	225	219	3	10	

SAMPLE DUPLICATE: 164571

Parameter	Units	2623710002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	1450	1330	9	10	

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QUALITY CONTROL DATA

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

QC Batch: 36185 Analysis Method: EPA 300.0
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions
Associated Lab Samples: 2623700001, 2623700002, 2623700003, 2623700004, 2623700005, 2623700006, 2623700007

METHOD BLANK: 163390 Matrix: Water
Associated Lab Samples: 2623700001, 2623700002, 2623700003, 2623700004, 2623700005, 2623700006, 2623700007

Parameter	Units	Blank Result	Reporting Limit	MDL	Analyzed	Qualifiers
Chloride	mg/L	0.033J	1.0	0.024	09/30/19 18:32	
Fluoride	mg/L	ND	0.30	0.029	09/30/19 18:32	
Sulfate	mg/L	ND	1.0	0.017	09/30/19 18:32	

LABORATORY CONTROL SAMPLE: 163391

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	10	10.7	107	90-110	
Fluoride	mg/L	10	10.7	107	90-110	
Sulfate	mg/L	10	10.8	108	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 163392 163393

Parameter	Units	2623317001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chloride	mg/L	46.0	20	20	61.9	61.6	79	78	90-110	0	15	M1
Fluoride	mg/L	0.94	20	20	21.7	22.3	104	107	90-110	3	15	

MATRIX SPIKE SAMPLE: 163394

Parameter	Units	2623567003 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chloride	mg/L	83.8	100	181	97	90-110	
Fluoride	mg/L	0.18J	100	101	101	90-110	
Sulfate	mg/L	154	100	242	88	90-110 M6	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623700

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.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Ash Pond 2
Pace Project No.: 2623700

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2623700001	Dup-2	EPA 3005A	36173	EPA 6020B	36203
2623700001	Dup-2	EPA 3005A	38135	EPA 6020B	38160
2623700002	YGWC-28S	EPA 3005A	36173	EPA 6020B	36203
2623700003	EB-2-9-26-19	EPA 3005A	36173	EPA 6020B	36203
2623700004	YGWC-28I	EPA 3005A	36173	EPA 6020B	36203
2623700005	FB-2-9-26-19	EPA 3005A	36173	EPA 6020B	36203
2623700006	YGWC-27S	EPA 3005A	36173	EPA 6020B	36203
2623700007	YGWC-27I	EPA 3005A	36173	EPA 6020B	36203
2623700001	Dup-2	EPA 7470A	36428	EPA 7470A	36481
2623700002	YGWC-28S	EPA 7470A	36428	EPA 7470A	36481
2623700003	EB-2-9-26-19	EPA 7470A	36428	EPA 7470A	36481
2623700004	YGWC-28I	EPA 7470A	36428	EPA 7470A	36481
2623700005	FB-2-9-26-19	EPA 7470A	36428	EPA 7470A	36481
2623700006	YGWC-27S	EPA 7470A	36428	EPA 7470A	36481
2623700007	YGWC-27I	EPA 7470A	36428	EPA 7470A	36481
2623700001	Dup-2	SM 2540C	36344		
2623700002	YGWC-28S	SM 2540C	36344		
2623700003	EB-2-9-26-19	SM 2540C	36344		
2623700004	YGWC-28I	SM 2540C	36344		
2623700005	FB-2-9-26-19	SM 2540C	36344		
2623700006	YGWC-27S	SM 2540C	36437		
2623700007	YGWC-27I	SM 2540C	36437		
2623700001	Dup-2	EPA 300.0	36185		
2623700002	YGWC-28S	EPA 300.0	36185		
2623700003	EB-2-9-26-19	EPA 300.0	36185		
2623700004	YGWC-28I	EPA 300.0	36185		
2623700005	FB-2-9-26-19	EPA 300.0	36185		
2623700006	YGWC-27S	EPA 300.0	36185		
2623700007	YGWC-27I	EPA 300.0	36185		

REPORT OF LABORATORY ANALYSIS

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

CLIENT NAME: Georgia Power CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-506-7239		REPORT TO: Joju Abraham		CC:		PO #:												
PROJECT NAME/STATE: Plant Yates - Ash Pond 2																		
PROJECT #:																		
Collection DATE	Collection TIME	MATRIX CODE	SAMPLE IDENTIFICATION				CONTAINER TYPE	ANALYSIS REQUESTED										
			C	G	R	A			B									
9-26-19	1325	GW	X					3	7	3								
9-26-19	1355	GW	X															
9-26-19	1425	GW	X															
9-26-19	1520	GW	X															
9-26-19	1535	GW	X															
9-26-19	1620	GW	X															
SAMPLED BY AND TITLE: [Signature]		DATE/TIME: 9/26/19 1620		RELINQUISHED BY: [Signature]		DATE/TIME: 9-27-19 1535		LAB #:		FOR LAB USE ONLY								
RECEIVED BY: [Signature]		DATE/TIME: 9/27/19 1535		RECEIVED BY LAB: [Signature]		DATE/TIME: 9/27/19 1535		CLIENT:		OTHER:								
SHIPMENT:		Temp:		Intact:		Broken:		Not Present:		FS								

NO# : 2623700

APP III, plus Detected APP IV

Detected APP IV: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lithium, Mercury, Molybdenum, Selenium, Radium
 Bolded Detections: Listed above or included with App III

2019-08 Yates Ash Pond 3 - Blank COCs (2)



Sample Condition Upon Receipt

Client Name: GA Power

Project # _____

WO#: **2623700**

PN: **BM** Due Date: **10/04/19**
CLIENT: **GA Power-CCR**

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

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

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used 83 Type of Ice: Wet Blue None

Cooler Temperature 1.0 Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Samples on ice, cooling process has begun

Date and Initials of person examining contents: 9/27/19 mk

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)



November 08, 2019

Mr. Matt Malone
Atlantic Coast Consulting, Inc.
1150 Northmeadow Pkwy, Suite 100
Roswell, GA 30076

RE: Pace Analytical Services – Atlanta Projects 2623620 and 2623700
(Plant Yates Ash Pond 2)

Dear Mr. Malone:

The purpose of this communication is to provide additional narrative for the above referenced projects. Project 2623620 was received in the Atlanta facility on September 26, 2019 for Metals analysis and the final report for the project was issued October 03, 2019. Project 2623700 was received in the Atlanta facility on September 27, 2019 for Metals analysis and the final report for the project was issued October 07, 2019.

Upon client request, a review of the EPA 6020B Chromium and Molybdenum results was performed for samples 2623620 -011 and -012 (Chromium) and 2623700001 (Chromium and Molybdenum) as the original results for these metals were not consistent with historical results. Samples 2623620 -011, -012, and 2623700001 were rerun in duplicate on November 5, 2019. Results from the duplicate reruns confirmed that the Chromium and Molybdenum results from original run were errant and a revised report was issued on November 08, 2019 with results reported from the rerun samples.

Comparison of the original and reruns of the Chromium and Molybdenum data indicated that the results were potentially impacted by contamination during the digestion process. There was no indication of batch contamination for these metals in the blank or other QC samples.

Pace Analytical Services has a commitment to provide quality analytical data to each of our clients to meet all of their regulatory and business needs. Pace Atlanta regrets the unfortunate incident that has occurred with the samples provided for the Plant Yates project.

If you need any additional information concerning this or other issues relative to our laboratory or quality programs, please feel free to contact myself or your project manager.

Sincerely,

Karen Greene
Quality Manager
karen.greene@pacelabs.com

October 25, 2019

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

RE: Project: Plant Yates Ash Pond 2
Pace Project No.: 2623701

Dear Joju Abraham:

Enclosed are the analytical results for sample(s) received by the laboratory on September 27, 2019. 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,



Betsy McDaniel
betsy.mcdaniel@pacelabs.com
(770)734-4200
Project Manager

Enclosures

cc: Chris Parker, Atlantic Coast Consulting
Evan Perry, Atlantic Coast Consulting
Lauren Petty, Southern Company Services, Inc.
Rebecca Thornton, Pace Analytical Atlanta



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Pennsylvania Certification IDs

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: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Lab ID	Sample ID	Matrix	Date Collected	Date Received
2623701001	Dup-2	Water	09/26/19 00:00	09/27/19 15:35
2623701002	YGWC-28S	Water	09/26/19 13:25	09/27/19 15:35
2623701003	EB-2-9-26-19	Water	09/26/19 13:55	09/27/19 15:35
2623701004	YGWC-28I	Water	09/26/19 14:25	09/27/19 15:35
2623701005	FB-2-9-26-19	Water	09/26/19 15:20	09/27/19 15:35
2623701006	YGWC-27S	Water	09/26/19 15:35	09/27/19 15:35
2623701007	YGWC-27I	Water	09/26/19 16:20	09/27/19 15:35

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SAMPLE ANALYTE COUNT

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
2623701001	Dup-2	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623701002	YGWC-28S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623701003	EB-2-9-26-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623701004	YGWC-28I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623701005	FB-2-9-26-19	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623701006	YGWC-27S	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA
2623701007	YGWC-27I	EPA 9315	LAL	1	PASI-PA
		EPA 9320	VAL	1	PASI-PA
		Total Radium Calculation	CMC	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Sample: Dup-2 **Lab ID: 2623701001** Collected: 09/26/19 00:00 Received: 09/27/19 15:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.474 ± 0.193 (0.266) C:90% T:NA	pCi/L	10/14/19 19:10	13982-63-3	
Radium-228	EPA 9320	0.882 ± 0.409 (0.703) C:76% T:100%	pCi/L	10/16/19 11:10	15262-20-1	
Total Radium	Total Radium Calculation	1.36 ± 0.602 (0.969)	pCi/L	10/18/19 11:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Sample: YGWC-28S **Lab ID: 2623701002** Collected: 09/26/19 13:25 Received: 09/27/19 15:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.500 ± 0.210 (0.310) C:90% T:NA	pCi/L	10/14/19 19:10	13982-63-3	
Radium-228	EPA 9320	0.658 ± 0.422 (0.812) C:74% T:95%	pCi/L	10/16/19 11:10	15262-20-1	
Total Radium	Total Radium Calculation	1.16 ± 0.632 (1.12)	pCi/L	10/18/19 11:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Sample: EB-2-9-26-19 **Lab ID: 2623701003** Collected: 09/26/19 13:55 Received: 09/27/19 15:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.492 ± 0.299 (0.446) C:89% T:NA	pCi/L	10/15/19 09:40	13982-63-3	
Radium-228	EPA 9320	0.776 ± 0.477 (0.893) C:75% T:74%	pCi/L	10/16/19 11:11	15262-20-1	
Total Radium	Total Radium Calculation	1.27 ± 0.776 (1.34)	pCi/L	10/18/19 11:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Sample: YGWC-28I **Lab ID: 2623701004** Collected: 09/26/19 14:25 Received: 09/27/19 15:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.448 ± 0.180 (0.232) C:91% T:NA	pCi/L	10/14/19 19:10	13982-63-3	
Radium-228	EPA 9320	0.614 ± 0.437 (0.854) C:72% T:87%	pCi/L	10/16/19 11:11	15262-20-1	
Total Radium	Total Radium Calculation	1.06 ± 0.617 (1.09)	pCi/L	10/18/19 11:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Sample: FB-2-9-26-19 **Lab ID: 2623701005** Collected: 09/26/19 15:20 Received: 09/27/19 15:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.360 ± 0.186 (0.288) C:81% T:NA	pCi/L	10/14/19 19:10	13982-63-3	
Radium-228	EPA 9320	1.17 ± 0.564 (0.995) C:74% T:79%	pCi/L	10/16/19 11:11	15262-20-1	
Total Radium	Total Radium Calculation	1.53 ± 0.750 (1.28)	pCi/L	10/18/19 11:04	7440-14-4	

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Sample: YGWC-27S **Lab ID: 2623701006** Collected: 09/26/19 15:35 Received: 09/27/19 15:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	0.373 ± 0.190 (0.294) C:84% T:NA	pCi/L	10/14/19 17:48	13982-63-3	
Radium-228	EPA 9320	0.639 ± 0.393 (0.735) C:78% T:87%	pCi/L	10/16/19 13:58	15262-20-1	
Total Radium	Total Radium Calculation	1.01 ± 0.583 (1.03)	pCi/L	10/18/19 11:04	7440-14-4	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Sample: YGWC-271 **Lab ID: 2623701007** Collected: 09/26/19 16:20 Received: 09/27/19 15:35 Matrix: Water
PWS: Site ID: Sample Type:

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Radium-226	EPA 9315	2.60 ± 0.534 (0.382) C:87% T:NA	pCi/L	10/14/19 18:16	13982-63-3	
Radium-228	EPA 9320	0.767 ± 0.480 (0.909) C:74% T:81%	pCi/L	10/16/19 13:58	15262-20-1	
Total Radium	Total Radium Calculation	3.37 ± 1.01 (1.29)	pCi/L	10/18/19 11:04	7440-14-4	

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

QC Batch: 365001

Analysis Method: EPA 9315

QC Batch Method: EPA 9315

Analysis Description: 9315 Total Radium

Associated Lab Samples: 2623701001, 2623701002, 2623701003, 2623701004, 2623701005, 2623701006, 2623701007

METHOD BLANK: 1770530

Matrix: Water

Associated Lab Samples: 2623701001, 2623701002, 2623701003, 2623701004, 2623701005, 2623701006, 2623701007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226	0.564 ± 0.187 (0.181) C:94% T:NA	pCi/L	10/14/19 19:10	

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

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QUALITY CONTROL - RADIOCHEMISTRY

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

QC Batch: 365002

Analysis Method: EPA 9320

QC Batch Method: EPA 9320

Analysis Description: 9320 Radium 228

Associated Lab Samples: 2623701001, 2623701002, 2623701003, 2623701004, 2623701005, 2623701006, 2623701007

METHOD BLANK: 1770531

Matrix: Water

Associated Lab Samples: 2623701001, 2623701002, 2623701003, 2623701004, 2623701005, 2623701006, 2623701007

Parameter	Act ± Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228	0.538 ± 0.357 (0.676) C:80% T:85%	pCi/L	10/16/19 11:11	

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

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QUALIFIERS

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

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.

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.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Plant Yates Ash Pond 2

Pace Project No.: 2623701

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
2623701001	Dup-2	EPA 9315	365001		
2623701002	YGWC-28S	EPA 9315	365001		
2623701003	EB-2-9-26-19	EPA 9315	365001		
2623701004	YGWC-28I	EPA 9315	365001		
2623701005	FB-2-9-26-19	EPA 9315	365001		
2623701006	YGWC-27S	EPA 9315	365001		
2623701007	YGWC-27I	EPA 9315	365001		
2623701001	Dup-2	EPA 9320	365002		
2623701002	YGWC-28S	EPA 9320	365002		
2623701003	EB-2-9-26-19	EPA 9320	365002		
2623701004	YGWC-28I	EPA 9320	365002		
2623701005	FB-2-9-26-19	EPA 9320	365002		
2623701006	YGWC-27S	EPA 9320	365002		
2623701007	YGWC-27I	EPA 9320	365002		
2623701001	Dup-2	Total Radium Calculation	366904		
2623701002	YGWC-28S	Total Radium Calculation	366904		
2623701003	EB-2-9-26-19	Total Radium Calculation	366904		
2623701004	YGWC-28I	Total Radium Calculation	366904		
2623701005	FB-2-9-26-19	Total Radium Calculation	366904		
2623701006	YGWC-27S	Total Radium Calculation	366904		
2623701007	YGWC-27I	Total Radium Calculation	366904		

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CHAIN OF CUSTODY RECORD

Pace Analytical Services, Inc.
 110 TECHNOLOGY PARKWAY, PEACHTREE CORNERS, GA 30092
 (770) 734-4200 : FAX (770) 734-4201

PAGE: 3 OF 3

CLIENT NAME: Georgia Power CLIENT ADDRESS/PHONE NUMBER/FAX NUMBER: 241 Ralph McGill Blvd SE B10185 Atlanta, GA 30308 404-508-7239		REPORT TO: Joju Abraham REQUESTED COMPLETION DATE: PROJECT NAME/STATE: Plant Yates - Ash Pond 2 PROJECT #: CONTAINER TYPE: # of C O N T A I N E R S		ANALYSIS REQUESTED P P P P 3 7 3 Metals App. III (EPA 60207-420) Boron, Calcium (EPA 300.0 & SM 2540C) Cl, T, SO ₄ & TDS Detected App IV (See List below) Det. App. IV Radium 226 & 228 (SW-846 9316/9320)		CONTAINER TYPE: P - PLASTIC A - AMBER GLASS G - CLEAR GLASS V - VOA VIAL S - STERILE O - OTHER PRESERVATION 1 - HCl, 56°C 2 - H ₂ SO ₄ , 56°C 3 - HNO ₃ 4 - NaOH, 56°C 5 - NaOH/ZnAc, 56°C 6 - Na ₂ S ₂ O ₃ , 56°C 7 - 56°C not frozen	
Collection DATE	Collection TIME	MATRIX CODE*	C O R A B	SAMPLE IDENTIFICATION	CONTAINER TYPE	ANALYSIS REQUESTED	
4-26-19	1325	GW	X	Dup-2	4	Metals App. III (EPA 60207-420) Boron, Calcium	
9-26-19	1355	GW	X	Y6WC-285	4	Detected App IV (See List below)	
9-26-19	1425	W	X	FB-2-9-26-19	4	Cl, T, SO ₄ & TDS (EPA 300.0 & SM 2540C)	
9-26-19	1520	GW	X	Y6WC-287	4	Metals App. III (EPA 60207-420) Boron, Calcium	
9-26-19	1535	W	X	FB-2-9-26-19	4	Detected App IV (See List below)	
9-26-19	1620	GW	X	Y6WC-275	4	Cl, T, SO ₄ & TDS (EPA 300.0 & SM 2540C)	
9-26-19	1620	GW	X	Y6WC-27E	6	Metals App. III (EPA 60207-420) Boron, Calcium	
REMARKS/ADDITIONAL INFORMATION APP III plus detected APP IV							
LABORATORY INFORMATION NO#: 2623701 PM: BM Due Date: 10/25/19 CLIENT: GAPower-CCR							
SAMPLED BY AND TITLE: RECEIVED BY:		DATE/TIME: 9/26/19 1620 DATE/TIME:		RELINQUISHED BY: [Signature] DATE/TIME: 9-27-19 1535			
RECEIVED BY LAB: [Signature]		DATE/TIME: 9/27/19 1535 Temperature: Min: 11.8 Max:		SAMPLE SHIPPED VIA: UPS FED-EX USPS COURIER OTHER FS Intact Broken Not Present			
ENTERED INTO LIMS: Tracking #:							

APP III, plus Detected APP IV

Detected APP IV: Arsenic, Barium, Beryllium, Cadmium, Chromium, Cobalt, Fluoride, Lithium, Mercury, Molybdenum, Selenium, Radium
 Bolded Detections: Listed above or included with App III

2019-08 Yates Ash Pond 3 - Blank COCs (2)

Sample Condition Upon Receipt



Client Name: GA Power

Project # _____

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: _____

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

Packing Material: Bubble Wrap Bubble Bags None Other

Thermometer Used 23 Type of Ice: Wet Blue None

Cooler Temperature 1.0

Biological Tissue is Frozen: Yes No

Temp should be above freezing to 6°C

Comments:

WO#: 2623701



Samples on ice, cooling process has begun

Date and Initials of person examining contents: 9/27/19 MK

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)

Product Name: Low-Flow System

Date: 2019-09-24 15:28:34

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Yates AP-2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 103 ft
Pump placement from TOC 99 ft

Well Information:

Well ID YGWA-1D
Well diameter 2 in
Well Total Depth 128.6 ft
Screen Length 50 ft
Depth to Water 49.16 ft

Pumping Information:

Final Pumping Rate 150 mL/min
Total System Volume 1.459231 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 1.7 in
Total Volume Pumped 6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	15:05:57	25.38	7.01	147.87	1.98	49.30	2.86	65.55
Last 5	15:10:57	25.28	6.99	153.63	1.11	49.30	1.32	57.85
Last 5	15:15:57	26.05	7.03	161.54	1.84	49.30	0.80	51.06
Last 5	15:20:57	26.32	7.05	165.96	1.10	49.30	0.48	42.81
Last 5	15:25:57	26.15	7.07	168.11	0.86	49.30	0.34	33.04
Variance 0		0.77	0.03	7.91			-0.52	-6.79
Variance 1		0.27	0.03	4.42			-0.32	-8.25
Variance 2		-0.18	0.02	2.15			-0.14	-9.76

Notes

Sunny, 80s, Sample time 1525

Grab Samples

Product Name: Low-Flow System
 Date: 2019-09-24 14:08:18

Project Information:
 Operator Name: Jordan Berisford
 Company Name: Atlantic Coast Consulting
 Project Name: Plant Yates AP-2
 Site Name: Plant Yates
 Latitude: 0° 0' 0"
 Longitude: 0° 0' 0"
 Sonde SN: 646777
 Turbidity Make/Model: HACH 2100Q

Pump Information:
 Pump Model/Type: QED Bladder Pump
 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: 37.28 ft

Pumping Information:
 Final Pumping Rate: 60 mL/min
 Total System Volume: 0.9862475 L
 Calculated Sample Rate: 300 sec
 Stabilization Drawdown: 13.4 in
 Total Volume Pumped: 7.5 L

Low-Flow Sampling Stabilization Summary				SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Stabilization	Time	Elapsed	Temp C	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:45:15	6299.98	24.78	61.92	2.06	38.40	2.15	52.09
Last 5	13:50:15	6599.98	24.96	61.52	2.22	38.40	2.33	53.73
Last 5	13:55:15	6899.98	24.99	60.38	1.99	38.40	2.48	55.35
Last 5	14:00:15	7199.97	25.44	60.37	2.05	38.40	2.61	57.19
Last 5	14:05:15	7499.98	25.33	59.90	1.95	38.40	2.68	59.53
Variance 0			0.02	-1.14			0.15	1.63
Variance 1			0.45	-0.01			0.13	1.84
Variance 2			-0.11	-0.46			0.08	2.35

Notes
 Sunny, Sample time 1405, FB-1-9-24-19 here at 1220

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-24 11:22:19

Project Information:

Operator Name Jordan Berisford
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates AP-2
 Site Name Plant Yates
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 646777
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
 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 44.63 ft

Pumping Information:

Final Pumping Rate 50 mL/min
 Total System Volume 1.092427 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 22.4 in
 Total Volume Pumped 2 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5%	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5 11:00:02	1200.02	22.40	7.00	222.07	1.74	46.50	1.13	76.04
Last 5 11:05:02	1500.01	22.49	6.98	221.31	1.52	46.50	0.85	68.13
Last 5 11:10:02	1800.02	22.65	6.97	222.89	1.01	46.50	0.63	62.90
Last 5 11:15:02	2100.01	22.68	6.99	221.99	1.28	46.50	0.53	59.32
Last 5 11:20:02	2400.01	22.98	7.01	222.08	1.11	46.50	0.47	56.47
Variance 0		0.16	-0.01	1.58			-0.22	-5.22
Variance 1		0.03	0.02	-0.90			-0.10	-3.58
Variance 2		0.31	0.02	0.09			-0.06	-2.84

Notes

Sunny, 80s, Sample time 1120

Grab Samples

Product Name: Low-Flow System
 Date: 2019-09-25 13:43:13

Project Information:
 Operator Name: Jordan Berisford
 Company Name: Atlantic Coast Consulting
 Project Name: Plant Yates AP-2
 Site Name: Plant Yates
 Latitude: 0° 0' 0"
 Longitude: 0° 0' 0"
 Sonde SN: 646777
 Turbidity Make/Model: HACH 2100Q

Pump Information:
 Pump Model/Type: QED Bladder Pump
 Tubing Type: poly
 Tubing Diameter: .25 in
 Tubing Length: 122 ft

Pump placement from TOC: 118 ft

Well Information:
 Well ID: YGWA-3D
 Well diameter: 2 in
 Well Total Depth: 137.1 ft
 Screen Length: 50 ft
 Depth to Water: 30 ft

Pumping Information:
 Final Pumping Rate: 150 mL/min
 Total System Volume: 1.642633 L
 Calculated Sample Rate: 300 sec
 Stabilization Drawdown: 1.2 in
 Total Volume Pumped: 5.25 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5%	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	13:20:13	25.63	7.25	228.69	2.01	30.10	0.30	-21.55
Last 5	13:25:13	25.18	7.43	230.65	1.92	30.10	0.20	-28.39
Last 5	13:30:13	24.63	7.56	231.09	1.50	30.10	0.16	-33.10
Last 5	13:35:13	23.66	7.63	231.35	1.48	30.10	0.14	-38.23
Last 5	13:40:13	25.14	7.64	234.21	1.83	30.10	0.18	-44.56
Variance 0		-0.55	0.13	0.45			-0.04	-4.71
Variance 1		-0.97	0.07	0.25			-0.02	-5.13
Variance 2		1.49	0.01	2.86			0.04	-6.33

Notes
 Sunny , Sample time 1340, 80s

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-25 12:23:40

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Yates AP-2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 60 ft
Pump placement from TOC 56 ft

Well Information:

Well ID YGWA-3I
Well diameter 2 in
Well Total Depth 60 ft
Screen Length 10 ft
Depth to Water 54.68 ft

Pumping Information:

Final Pumping Rate 90 mL/min
Total System Volume 1.044164 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 0 in
Total Volume Pumped 15.75 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5%	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5	12:00:05	28.68	7.43	242.38	8.63	--	1.30	-11.15
Last 5	12:05:05	28.92	7.43	242.50	8.11	--	1.28	-16.22
Last 5	12:10:05	29.40	7.44	239.39	7.07	--	1.25	-20.37
Last 5	12:15:05	29.41	7.46	235.03	5.09	--	1.19	-23.10
Last 5	12:20:05	29.09	7.47	234.27	4.70	--	1.07	-26.59
Variance 0		0.48	0.01	-3.10			-0.04	-4.15
Variance 1		0.01	0.02	-4.36			-0.06	-2.73
Variance 2		-0.31	0.01	-0.76			-0.12	-3.49

Notes

Sunny, Sample time 1220, unable to obtain WL, WL below top of Pump, extended purged due to WL below top of screen, minimum 3 well volumes purged

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-25 11:09:03

Project Information:

Operator Name A. James
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates - AP 2
 Site Name Plant Yates
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 647057
 Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
 Tubing Type poly
 Tubing Diameter .25 in
 Tubing Length 37 ft
 Pump placement from TOC 32 ft

Well Information:

Well ID YGWA-14S
 Well diameter 2 in
 Well Total Depth 35.82 ft
 Screen Length 10 ft
 Depth to Water 18.56 ft

Pumping Information:

Final Pumping Rate 220 mL/min
 Total System Volume 0.8421511 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 6 in
 Total Volume Pumped 7.7 L

Low-Flow Sampling Stabilization Summary

Stabilization	Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	10:40:04	600.02	+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	10:45:04	900.01	19.62	5.19	59.12	0.59	19.10	6.52	130.37
Last 5	10:50:05	1201.02	19.75	5.14	59.27	0.59	19.10	6.41	145.53
Last 5	10:55:06	1502.01	20.02	5.22	59.01	0.30	19.10	6.31	152.84
Last 5	11:00:06	1802.06	20.04	5.22	58.74	0.44	19.10	6.28	160.83
Variance 0			19.98	5.19	58.63	0.33	19.10	6.25	167.40
Variance 1			0.27	0.08	-0.26			-0.10	7.31
Variance 2			0.02	-0.00	-0.27			-0.03	7.99
			-0.06	-0.02	-0.11			-0.03	6.58

Notes

Sampled at 1105. Sunny, 70s. DUP-1 here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-25 13:31:45

Project Information:

Operator Name A. James
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates - AP 2
 Site Name Plant Yates
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 647057
 Turbidity Make/Model Hach 2100 Q

Pump Information:

Pump Model/Type Bladder Pump
 Tubing Type poly
 Tubing Diameter .25 in
 Tubing Length 62 ft
 Pump placement from TOC 57 ft

Well Information:

Well ID YGWA-30I
 Well diameter 2 in
 Well Total Depth 59.65 ft
 Screen Length 10 ft
 Depth to Water 38.37 ft

Pumping Information:

Final Pumping Rate 160 mL/min
 Total System Volume 1.08347 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 3 in
 Total Volume Pumped 5.6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5 13:05:02	600.02	21.03	5.70	37.66	0.80	38.50	6.89	136.02
Last 5 13:10:02	900.01	20.90	5.69	37.73	0.48	38.50	6.97	139.14
Last 5 13:15:02	1200.01	21.00	5.66	37.64	0.37	38.50	6.92	142.27
Last 5 13:20:09	1507.01	20.91	5.67	37.65	0.43	38.50	6.87	143.77
Last 5 13:25:14	1812.01	21.17	5.69	37.60	0.42	38.60	6.92	143.84
Variance 0		0.10	-0.03	-0.09			-0.05	3.14
Variance 1		-0.09	0.00	0.02			-0.05	1.50
Variance 2		0.27	0.02	-0.05			0.05	0.07

Notes

Sampled at 1330. Sunny, 90s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-25 16:53:55

Project Information:

Operator Name: A. James
Company Name: Atlantic Coast Consulting
Project Name: Plant Yates - AP 2
Site Name: Plant Yates
Latitude: 0° 0' 0"
Longitude: 0° 0' 0"
Sonde SN: 647057
Turbidity Make/Model: Hach 2100 Q

Pump Information:

Pump Model/Type: Bladder Pump
Tubing Type: poly
Tubing Diameter: .25 in
Tubing Length: 72 ft
Pump placement from TOC: 67 ft

Well Information:

Well ID: YGWC-26I
Well diameter: 2 in
Well Total Depth: 69.71 ft
Screen Length: 10 ft
Depth to Water: 25.36 ft

Pumping Information:

Final Pumping Rate: 120 mL/min
Total System Volume: 1.179997 L
Calculated Sample Rate: 300 sec
Stabilization Drawdown: 2 in
Total Volume Pumped: 4.2 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	16:25:43	24.27	5.86	298.52	6.53	25.50	0.58	122.05
Last 5	16:30:43	24.26	5.79	298.11	2.56	25.50	0.41	126.21
Last 5	16:35:45	24.18	5.80	299.28	2.02	25.50	0.35	126.98
Last 5	16:40:45	23.76	5.81	302.18	1.97	25.50	0.35	128.07
Last 5	16:45:46	23.52	5.79	302.49	1.71	25.50	0.35	129.06
Variance 0		-0.09	0.01	1.17			-0.06	0.77
Variance 1		-0.42	0.00	2.90			-0.01	1.08
Variance 2		-0.24	-0.02	0.31			0.00	0.99

Notes

Sampled at 1650. Sunny,90s. 2nd Rad here.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-25 15:33:53

Project Information:

Operator Name: A. James
Company Name: Atlantic Coast Consulting
Project Name: Plant Yates - AP 2
Site Name: Plant Yates
Latitude: 0° 0' 0"
Longitude: 0° 0' 0"
Sonde SN: 647057
Turbidity Make/Model: Hach 2100 Q

Pump Information:

Pump Model/Type: Bladder Pump
Tubing Type: poly
Tubing Diameter: .25 in
Tubing Length: 42 ft
Pump placement from TOC: 37 ft

Well Information:

Well ID: YGWC-26S
Well diameter: 2 in
Well Total Depth: 40.26 ft
Screen Length: 10 ft
Depth to Water: 22.74 ft

Pumping Information:

Final Pumping Rate: 150 mL/min
Total System Volume: 0.8904147 L
Calculated Sample Rate: 300 sec
Stabilization Drawdown: 16 in
Total Volume Pumped: 6.8 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5	+/- 0.1	+/- 5%	+/- 10		+/- 0.2	+/- 10
Last 5	15:05:52	22.71	5.19	284.40	2.26	24.00	0.87	178.80
Last 5	15:10:52	22.47	5.15	286.09	2.38	24.10	0.84	177.85
Last 5	15:15:53	22.25	5.23	287.08	2.02	24.10	0.75	172.89
Last 5	15:20:54	22.20	5.24	288.31	2.66	24.10	0.64	170.92
Last 5	15:25:54	22.16	5.24	288.83	2.37	24.10	0.69	169.02
Variance 0		-0.22	0.08	0.99			-0.10	-4.96
Variance 1		-0.05	0.01	1.23			-0.11	-1.97
Variance 2		-0.05	-0.00	0.52			0.05	-1.90

Notes

Sampled at 1530. Sunny, 90s.

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-26 16:21:24

Project Information:

Operator Name Jordan Berisford
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates AP-2
 Site Name Plant Yates
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 646777
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
 Tubing Type poly
 Tubing Diameter .25 in
 Tubing Length 79 ft
 Pump placement from TOC 74 ft

Well Information:

Well ID YGWC-271
 Well diameter 2 in
 Well Total Depth 79.84 ft
 Screen Length 10 ft
 Depth to Water 28.80 ft

Pumping Information:

Final Pumping Rate 160 mL/min
 Total System Volume 1.227566 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 10.8 in
 Total Volume Pumped 4 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5%	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5 16:00:04	300.03	22.02	6.28	338.31	2.81	29.70	0.42	67.15
Last 5 16:05:04	600.02	21.75	6.28	342.10	0.91	29.70	0.15	61.05
Last 5 16:10:04	900.02	21.60	6.29	340.69	0.55	29.70	0.11	56.44
Last 5 16:15:04	1200.02	21.60	6.30	337.83	0.83	29.70	0.11	53.00
Last 5 16:20:04	1500.02	21.57	6.30	335.94	0.72	29.70	0.13	51.31
Variance 0		-0.16	0.01	-1.41			-0.04	-4.61
Variance 1		-0.00	0.01	-2.86			0.00	-3.44
Variance 2		-0.03	-0.00	-1.89			0.02	-1.70

Notes

Sunny, 80s, Sample time 1620 2nd rad here

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-26 15:37:04

Project Information:

Operator Name Jordan Berisford
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates AP-2
 Site Name Plant Yates
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 646777
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
 Tubing Type poly
 Tubing Diameter .25 in
 Tubing Length 40 ft
 Pump placement from TOC 35 ft

Well Information:

Well ID YGWC-27S
 Well diameter 2 in
 Well Total Depth 40.26 ft
 Screen Length 10 ft
 Depth to Water 28.21 ft

Pumping Information:

Final Pumping Rate 180 mL/min
 Total System Volume 0.8511093 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 1 in
 Total Volume Pumped 4.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5%	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5 15:15:37	300.03	26.33	6.38	398.90	1.39	28.30	4.02	64.39
Last 5 15:20:37	600.02	24.10	6.25	416.39	1.90	28.30	1.88	79.01
Last 5 15:25:37	900.03	25.04	6.23	422.13	1.83	28.30	0.64	85.07
Last 5 15:30:37	1200.07	25.01	6.23	423.10	1.72	28.30	0.40	88.23
Last 5 15:35:37	1500.05	24.55	6.22	421.79	1.59	28.30	0.32	90.61
Variance 0		0.94	-0.02	5.74			-1.24	6.06
Variance 1		-0.03	-0.00	0.97			-0.25	3.16
Variance 2		-0.46	-0.00	-1.31			-0.07	2.38

Notes

Sunny, 80s, Sample time 1535, FB-2-9-26-19 here at 1520

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-26 14:26:31

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Yates AP-2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 69 ft
Pump placement from TOC 64 ft

Well Information:

Well ID YGWC-281
Well diameter 2 in
Well Total Depth 69.89 ft
Screen Length 10 ft
Depth to Water 24.73 ft

Pumping Information:

Final Pumping Rate 130 mL/min
Total System Volume 1.131039 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 10.4 in
Total Volume Pumped 4.6 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	14:05:05	25.83	6.48	404.42	0.82	25.60	1.13	50.09
Last 5	14:10:05	26.31	6.44	400.02	0.92	25.60	0.78	50.03
Last 5	14:15:05	26.35	6.43	399.26	0.51	25.60	0.70	50.17
Last 5	14:20:05	25.56	6.43	397.93	0.59	25.60	0.55	51.51
Last 5	14:25:05	24.47	6.43	398.84	0.49	25.60	0.41	53.40
Variance 0		0.05	-0.02	-0.76			-0.09	0.14
Variance 1		-0.80	-0.00	-1.33			-0.14	1.33
Variance 2		-1.08	-0.00	0.91			-0.14	1.89

Notes

Cloudy, 80s, Sample time-1425

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-26 13:27:27

Project Information:

Operator Name Jordan Berisford
 Company Name Atlantic Coast Consulting
 Project Name Plant Yates AP-2
 Site Name Plant Yates
 Latitude 0° 0' 0"
 Longitude 0° 0' 0"
 Sonde SN 646777
 Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
 Tubing Type poly
 Tubing Diameter .25 in
 Tubing Length 44 ft
 Pump placement from TOC 39 ft

Well Information:

Well ID YGWC-28S
 Well diameter 2 in
 Well Total Depth 44.85 ft
 Screen Length 10 ft
 Depth to Water 24.21 ft

Pumping Information:

Final Pumping Rate 215 mL/min
 Total System Volume 0.8897202 L
 Calculated Sample Rate 300 sec
 Stabilization Drawdown 5.9 in
 Total Volume Pumped 10.8 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
		+/- 0.5%	+/- 0.1	+/- 5%	+/- 100		+/- 10%	+/- 100
Last 5 13:05:03	1800.02	21.46	6.43	466.69	17.00	24.70	0.09	-24.05
Last 5 13:10:03	2100.02	21.11	6.44	465.98	10.00	24.70	0.09	-28.88
Last 5 13:15:03	2400.02	21.26	6.45	466.21	6.21	24.70	0.09	-33.30
Last 5 13:20:03	2700.02	20.93	6.46	463.30	5.90	24.70	0.09	-36.29
Last 5 13:25:03	3000.02	20.97	6.47	464.30	3.58	24.70	0.09	-38.74
Variance 0		0.16	0.01	0.22			0.00	-4.42
Variance 1		-0.33	0.01	-2.91			0.00	-2.98
Variance 2		0.04	0.00	1.01			-0.00	-2.46

Notes

Cloudy , Sample time 1325, DUP-2 here

Grab Samples

Product Name: Low-Flow System

Date: 2019-09-25 15:31:51

Project Information:

Operator Name Jordan Berisford
Company Name Atlantic Coast Consulting
Project Name Plant Yates AP-2
Site Name Plant Yates
Latitude 0° 0' 0"
Longitude 0° 0' 0"
Sonde SN 646777
Turbidity Make/Model HACH 2100Q

Pump Information:

Pump Model/Type QED Bladder Pump
Tubing Type poly
Tubing Diameter .25 in
Tubing Length 39 ft
Pump placement from TOC 34 ft

Well Information:

Well ID YGWC-29I
Well diameter 2 in
Well Total Depth 39.46 ft
Screen Length 10 ft
Depth to Water 28.16 ft

Pumping Information:

Final Pumping Rate 100 mL/min
Total System Volume 0.8414565 L
Calculated Sample Rate 300 sec
Stabilization Drawdown 7.7 in
Total Volume Pumped 5.5 L

Low-Flow Sampling Stabilization Summary

Stabilization Time	Elapsed	Temp C	pH	SpCond μ S/cm	Turb NTU	DTW ft	RDO mg/L	ORP mV
Last 5	15:10:01	27.89	6.22	251.32	0.38	28.80	0.79	59.10
Last 5	15:15:01	27.71	6.22	251.59	0.29	28.80	0.71	62.08
Last 5	15:20:02	27.85	6.22	251.39	0.44	28.80	0.67	64.24
Last 5	15:25:02	27.75	6.22	249.41	0.51	28.80	0.62	66.77
Last 5	15:30:02	27.94	6.21	252.13	0.52	28.80	0.61	68.71
Variance 0		0.14	-0.00	-0.20			-0.05	2.16
Variance 1		-0.10	0.00	-1.98			-0.05	2.53
Variance 2		0.20	-0.00	2.72			-0.00	1.94

Notes

Sunny, 80s, Sample time-1530

Grab Samples

LEVEL 2A LABORATORY DATA VALIDATIONS

Plant Yates Ash Pond-2

September 2019

Georgia Power Company – Plant Yates Ash Pond-2

Quality Control Review of Analytical Data – September 2019

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 September 24, 2019 and September 26, 2019. 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 2623700 was revised by the laboratory to remove a non-target analyte that was originally reported but not requested on the chain of custody (COC). SDGs 2623620 and 2623700 were revised by the laboratory to correct errant metals data presented in the original laboratory reports. Samples YGWC-26S (2623620-011), DUP-1 (2623620-12), and DUP-2 (2623700-001) had chromium data revised. Additionally, DUP-2 (2623700-001) had molybdenum data revised. A Quality Manager narrative is included as part of the revised laboratory reports.

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), 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-26I (2623622013) as described in the qualifications section below. Additionally, Radium-228 in SDG 2623622 yielded a relative percent difference (RPD) for the laboratory control sample/laboratory control sample duplicate that exceeded the QC criteria (36.07% above limit of 36). This batch was passed on the individual recoveries, and no qualification was necessary for Radium-228.

Field Precision: Field goals for precision were met.

Accuracy: Laboratory goals for accuracy were met, with the exceptions of Chloride and Fluoride in SDG 2623620 as described in the qualifications section below.

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.

- Sample YGWC-26I (2623620013) was qualified as estimated (J) for Chloride and Fluoride as the associated matrix spike recoveries were above the QC criteria (both 115% above the range of 90-110).
- Sample YGWC-26I (2623622013) was qualified as estimated (J) for Radium-226 as the laboratory RPD exceeded QC criteria (27.71% above limit of 25).
- Certain radium results in SDG 2623622 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 September 24, 2019 and September 26, 2019 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 – September 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
23620	YGWA-2I	9/24/2019	2623620001	GW		X	X	X	
23622	YGWA-2I	9/24/2019	2623622001	GW					X
23620	FB-1-9-24-19	9/24/2019	2623620002	WQ	FB	X	X	X	
23622	FB-1-9-24-19	9/24/2019	2623622002	WQ	FB				X
23620	YGWA-1I	9/24/2019	2623620003	GW		X	X	X	
23622	YGWA-1I	9/24/2019	2623622003	GW					X
23620	YGWA-1D	9/24/2019	2623620004	GW		X	X	X	
23622	YGWA-1D	9/24/2019	2623622004	GW					X
23620	YGWA-3I	9/25/2019	2623620005	GW		X	X	X	
23622	YGWA-3I	9/25/2019	2623622005	GW					X
23620	EB-1-9-25-19	9/25/2019	2623620006	WQ	EB	X	X	X	
23622	EB-1-9-25-19	9/25/2019	2623622006	WQ	EB				X
23620	YGWA-3D	9/25/2019	2623620007	GW		X	X	X	
23622	YGWA-3D	9/25/2019	2623622007	GW					X
23620	YGWC-29I	9/25/2019	2623620008	GW		X	X	X	
23622	YGWC-29I	9/25/2019	2623622008	GW					X
23620	YGWA-14S	9/25/2019	2623620009	GW		X	X	X	
23622	YGWA-14S	9/25/2019	2623622009	GW					X
23620	YGWA-30I	9/25/2019	2623620010	GW		X	X	X	
23622	YGWA-30I	9/25/2019	2623622010	GW					X
23620	YGWC-26S	9/25/2019	2623620011	GW		X	X	X	
23622	YGWC-26S	9/25/2019	2623622011	GW					X
23620	DUP-1	9/25/2019	2623620012	GW	FD (YGWA-14S)	X	X	X	
23622	DUP-1	9/25/2019	2623622012	GW	FD (YGWA-14S)				X
23620	YGWC-26I	9/25/2019	2623620013	GW		X	X	X	
23622	YGWC-26I	9/25/2019	2623622013	GW					X
23700	DUP-2	9/26/2019	2623700001	GW	FD (YGWC-28S)	X	X	X	
23701	DUP-2	9/26/2019	2623701001	GW	FD (YGWC-28S)				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 1 (continued)

Georgia Power Company – Plant Yates Ash Pond-2

Sample Summary Table – September 2019

SDG	Field Identification	Collection Date	Lab Identification	Matrix	QC Samples	Analyses			
						Metals (6020B, 7470A)	Anions (300.0)	TDS (SM 2540C)	Radium-226/-228 (9315, 9320)
23700	YGWC-28S	9/26/2019	2623700002	GW		X	X	X	
23701	YGWC-28S	9/26/2019	2623701002	GW					X
23700	EB-2-9-26-19	9/26/2019	2623700003	WQ	EB	X	X	X	
23701	EB-2-9-26-19	9/26/2019	2623701003	WQ	EB				X
23700	YGWC-28I	9/26/2019	2623700004	GW		X	X	X	
23701	YGWC-28I	9/26/2019	2623701004	GW					X
23700	FB-2-9-26-19	9/26/2019	2623700005	WQ	FB	X	X	X	
23701	FB-2-9-26-19	9/26/2019	2623701005	WQ	FB				X
23700	YGWC-27S	9/26/2019	2623700006	GW		X	X	X	
23701	YGWC-27S	9/26/2019	2623701006	GW					X
23700	YGWC-27I	9/26/2019	2623700007	GW		X	X	X	
23701	YGWC-27I	9/26/2019	2623701007	GW					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 – September 2019

SDG	Field Identification	Constituent	New RL	New MDL or MDC	Qualifier	Reason
23620	YGWC-26I	Chloride			J	MS recovery above QC criteria
23620	YGWC-26I	Fluoride			J	MS recovery above QC criteria
23622	YGWA-2I	Radium-228		0.776	ND	Blank detection
23622	YGWA-1I	Radium-228		0.496	ND	Blank detection
23622	YGWA-1D	Radium-228		0.779	ND	Blank detection
23622	YGWC-19I	Radium-226		0.451	ND	Blank detection
23622	YGWA-30I	Radium-226		0.46	ND	Blank detection
23622	YGWC-26S	Radium-226		0.464	ND	Blank detection
23622	YGWC-26I	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

Qualifiers:

J – Estimated Result
ND – Non-Detect Result

APPENDIX B

STATISTICAL ANALYSES

100% ND

Date: 5/3/2019 11:24 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

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

Lithium (mg/L)

YGWC-26S, YGWC-27S, YGWC-28S

Molybdenum (mg/L)

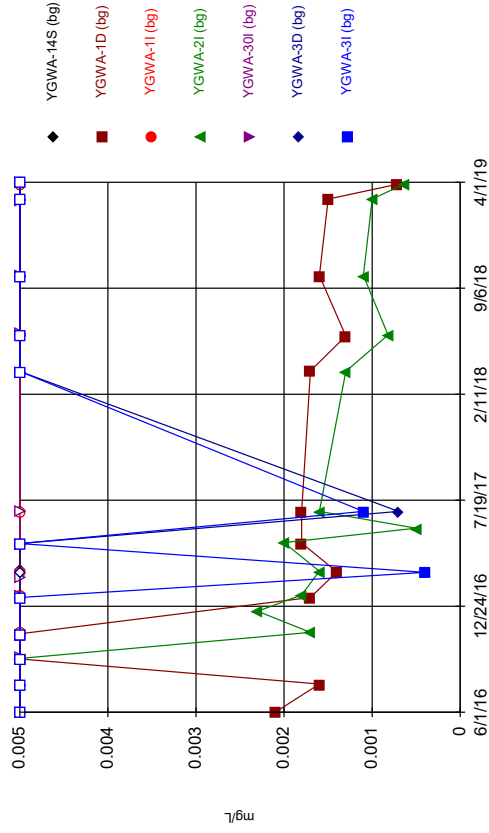
YGWC-26I, YGWC-26S, YGWC-27S, YGWC-29I

Selenium (mg/L)

YGWC-27I, YGWC-27S, YGWC-29I

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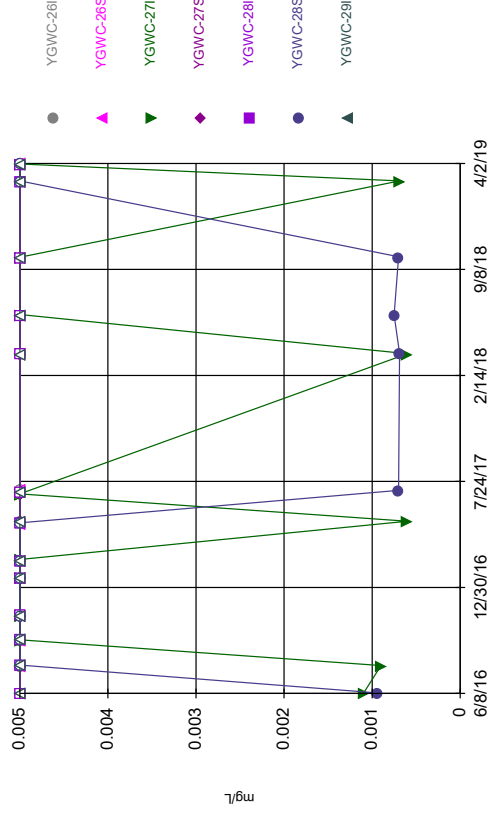
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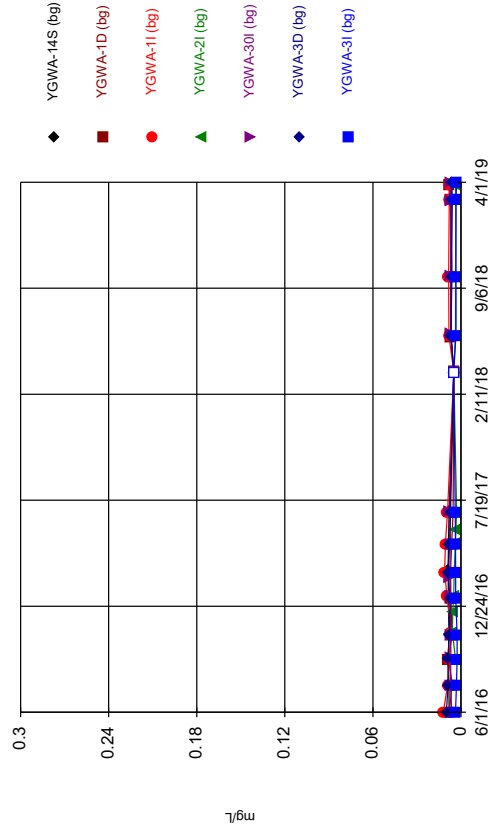
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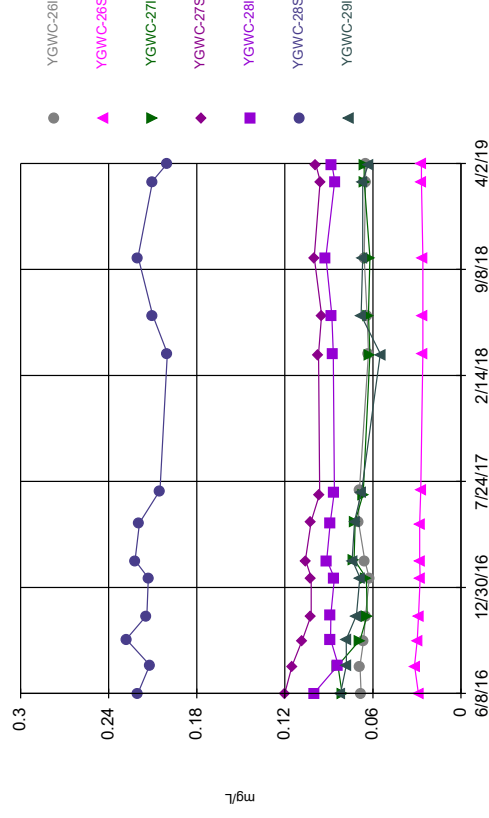
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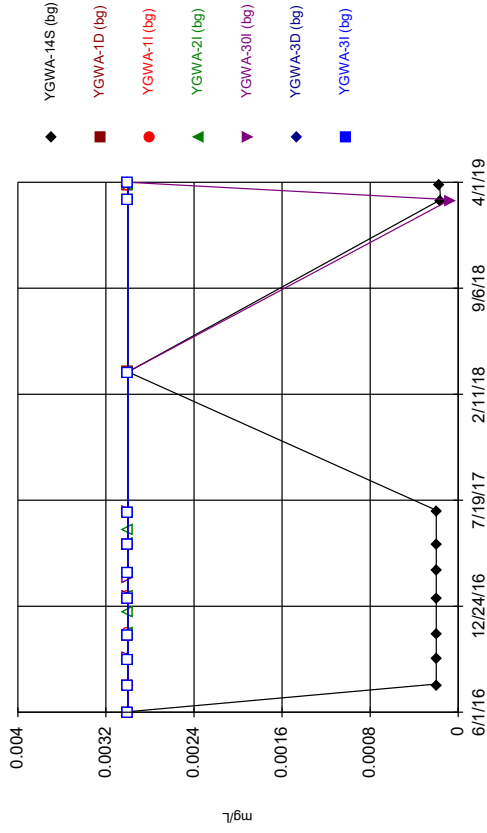
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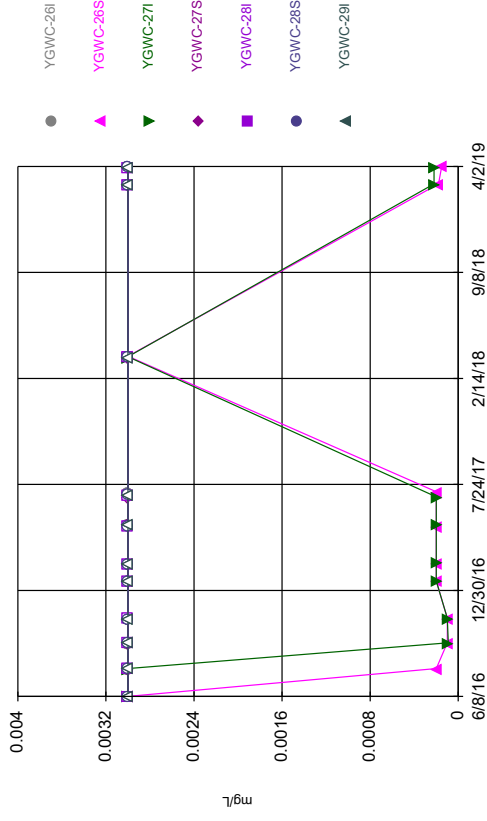
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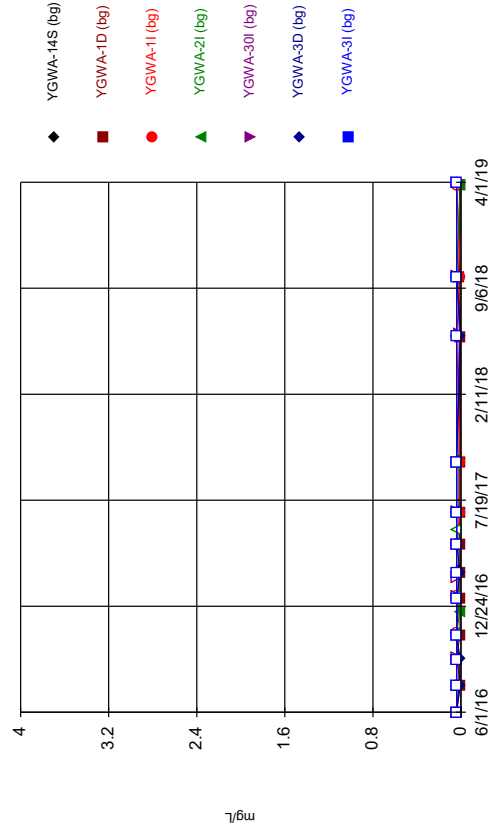
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Time Series



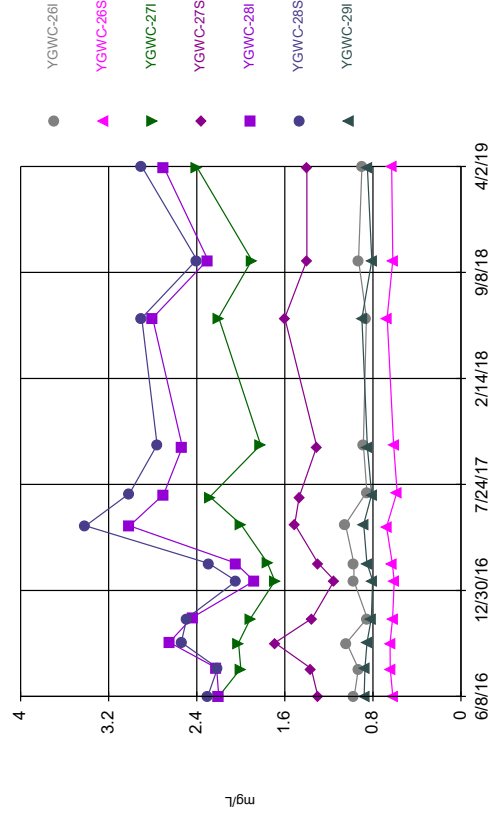
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Time Series



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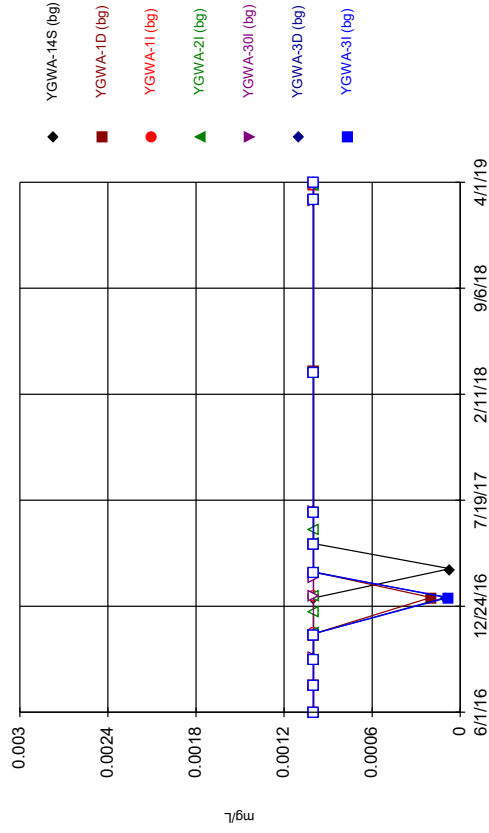
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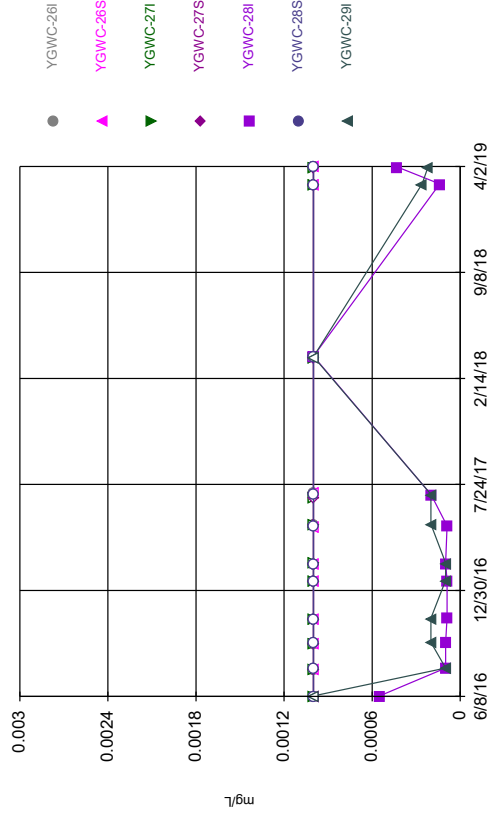
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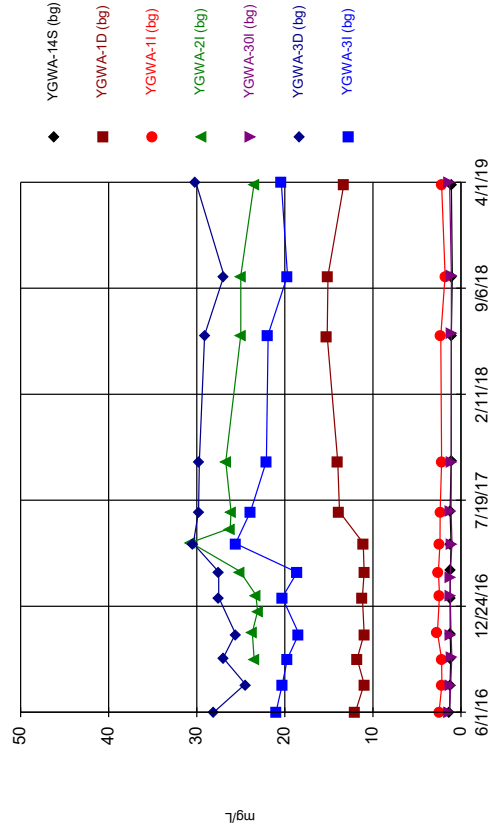
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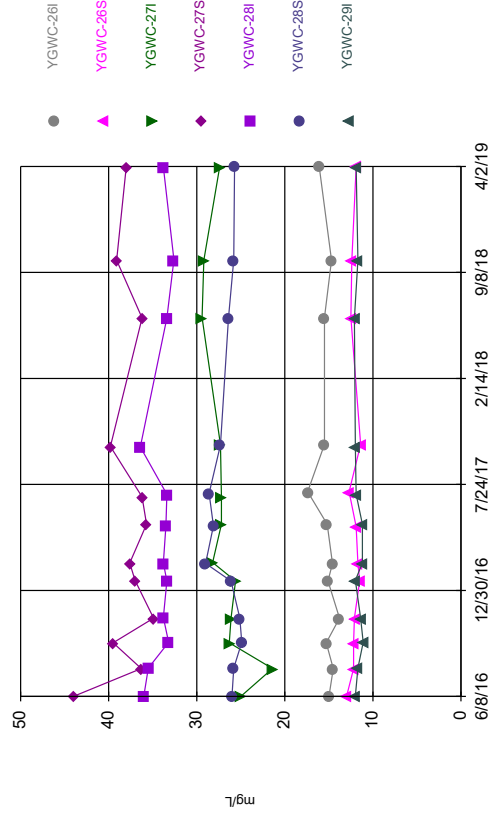
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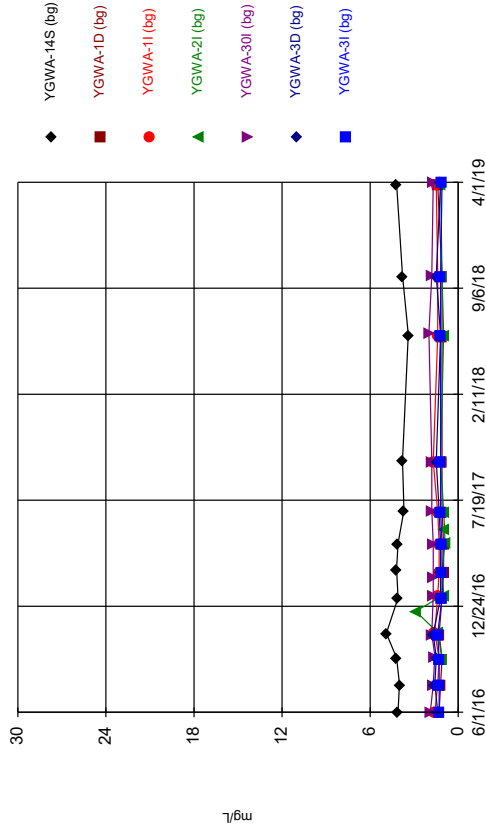
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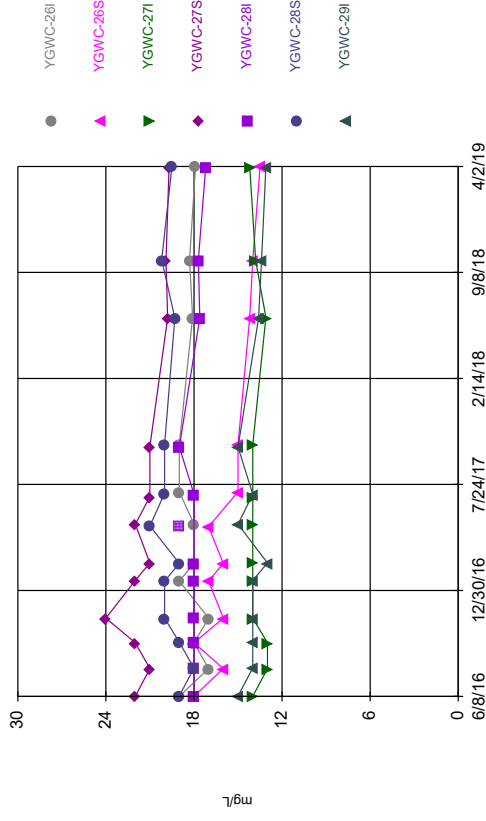
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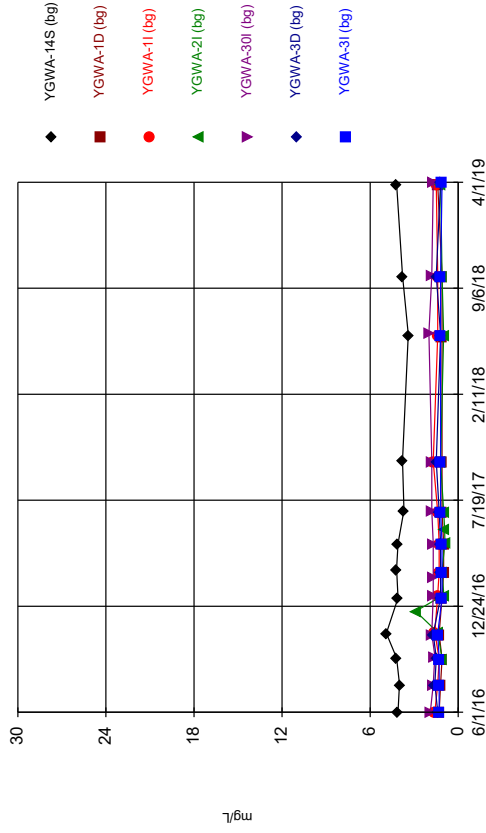
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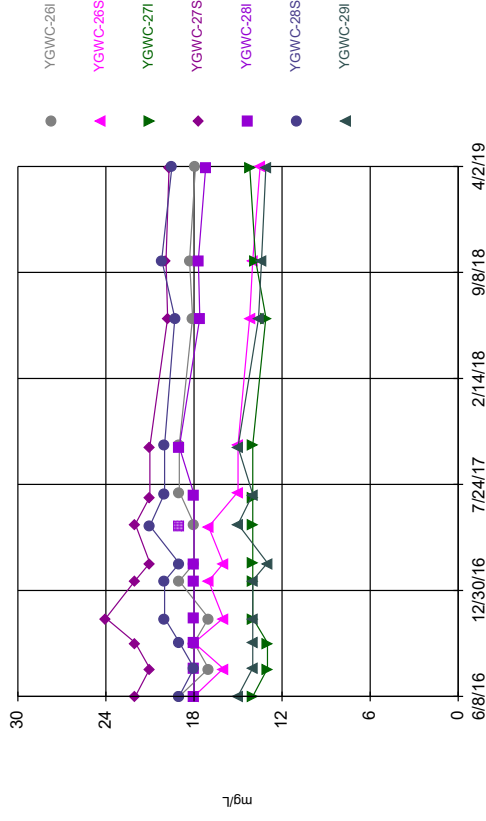
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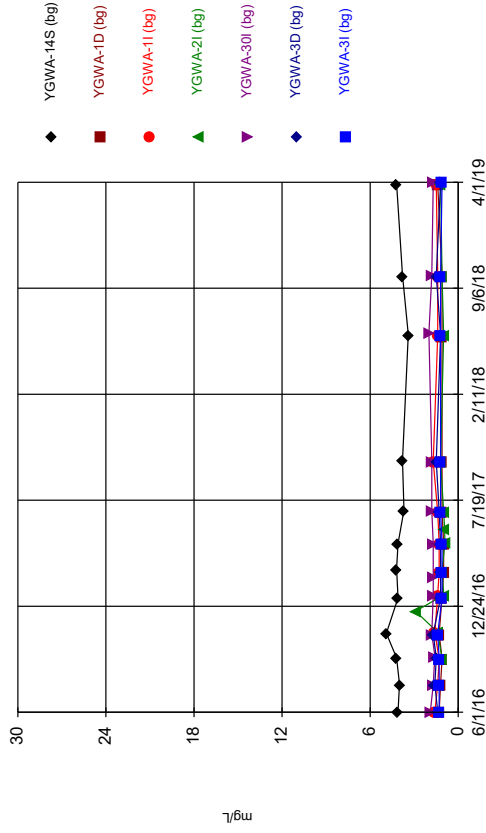
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Time Series



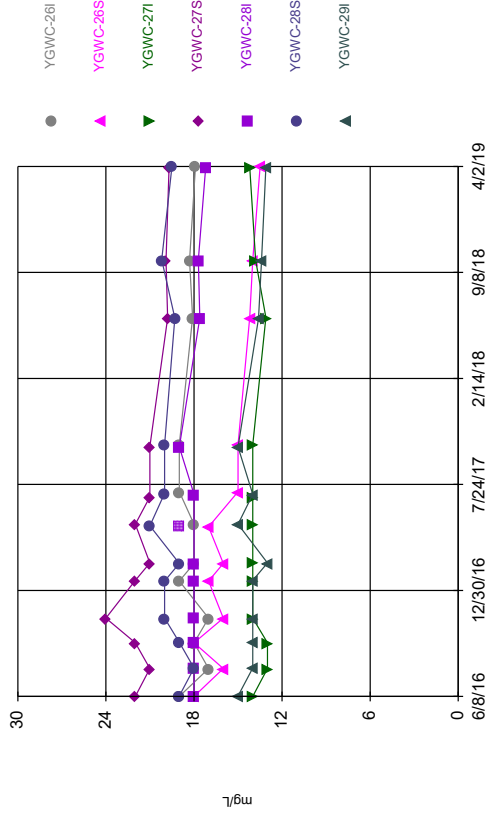
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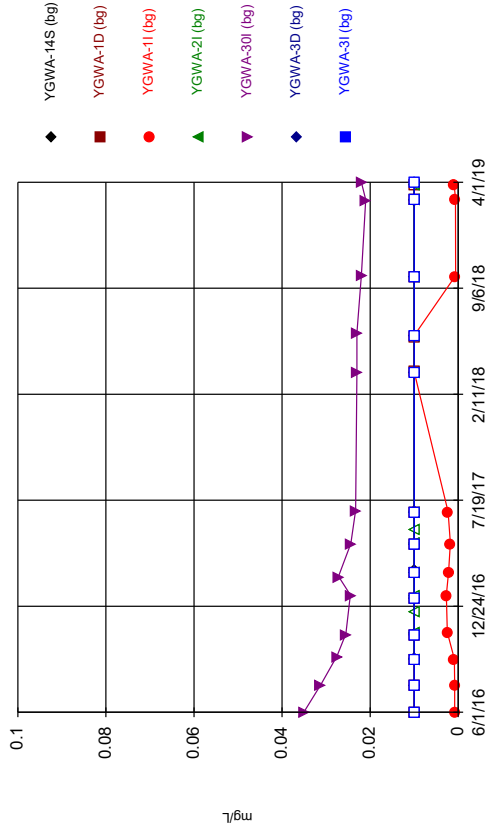
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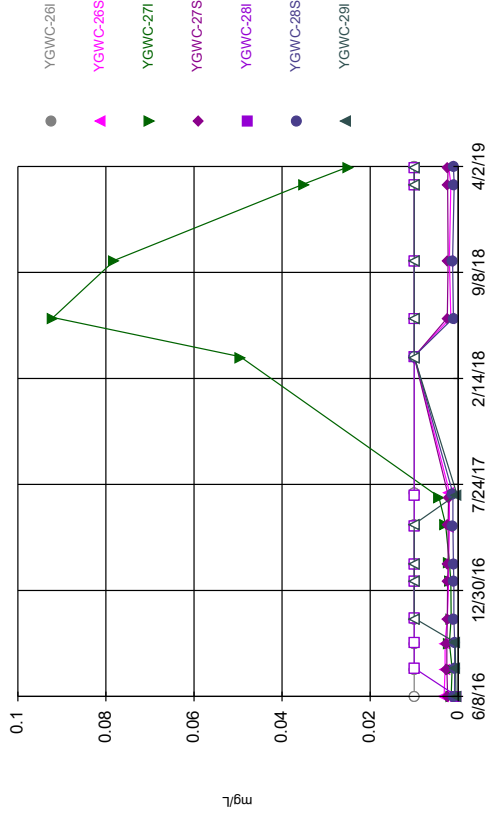
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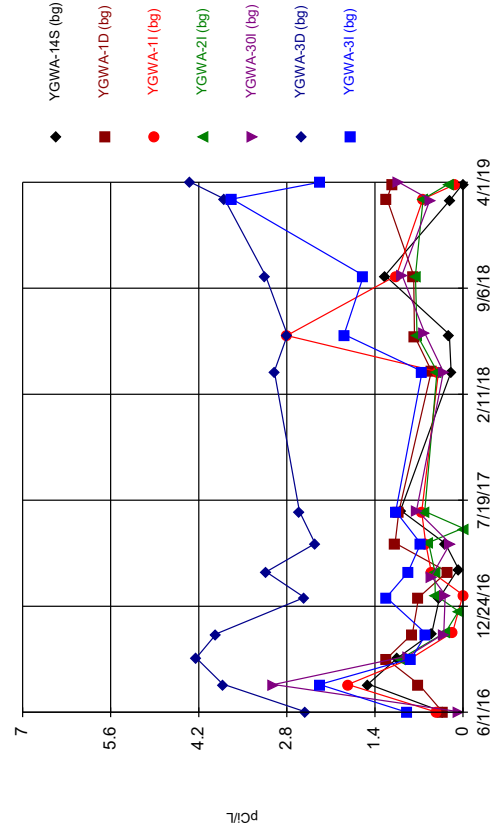
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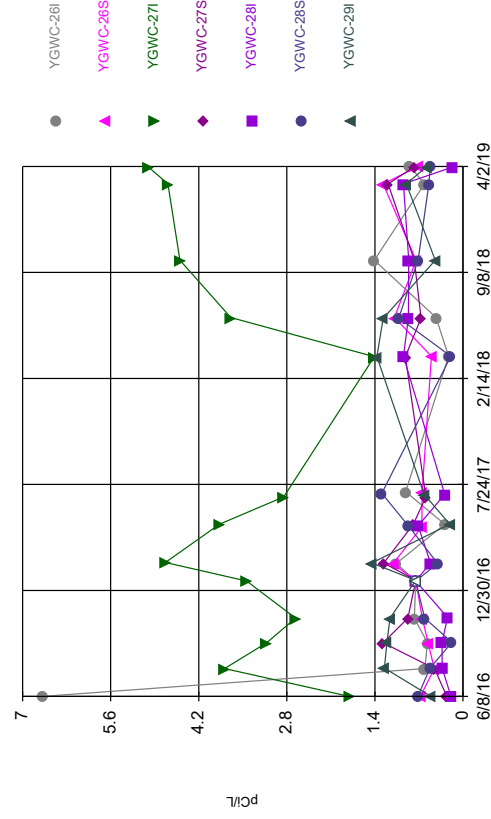
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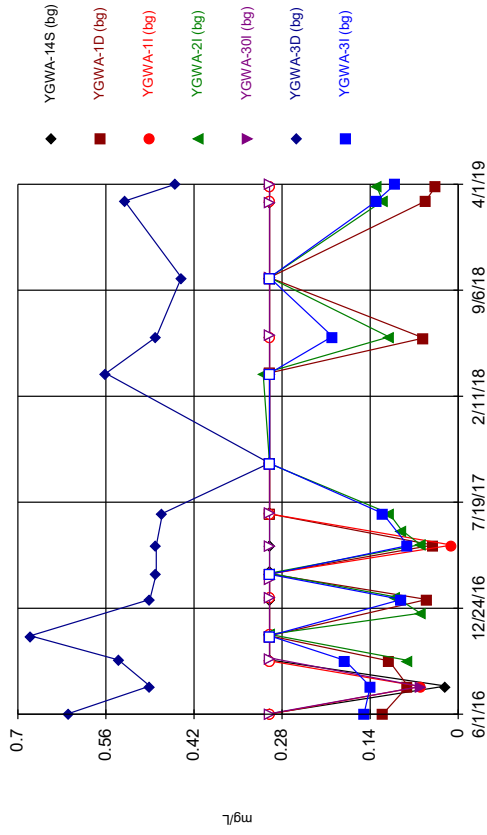
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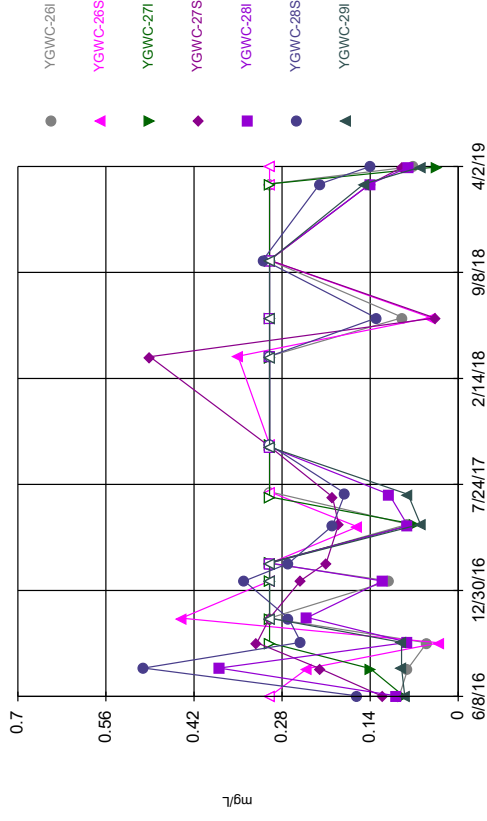
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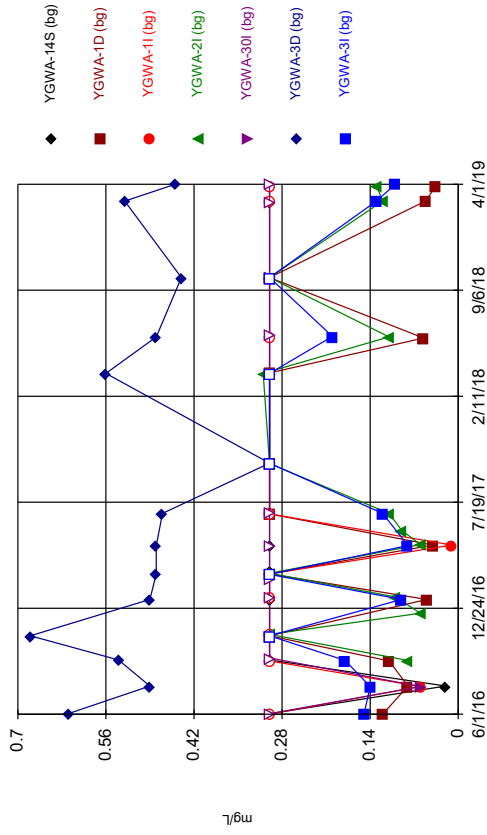
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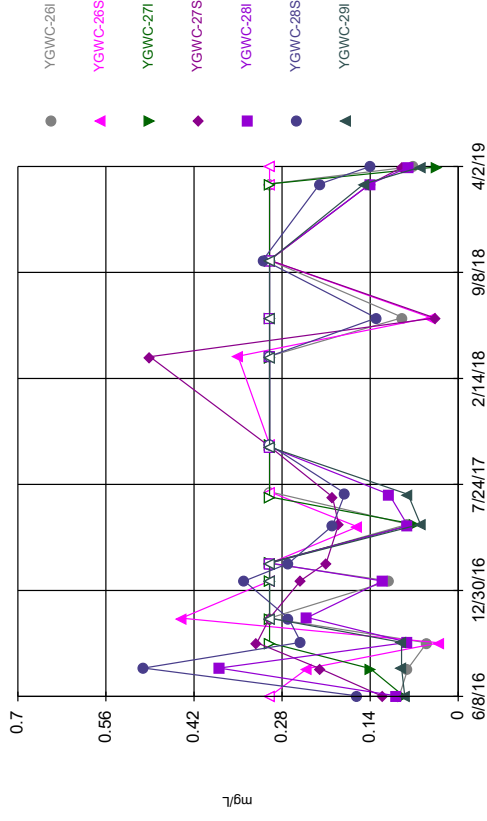
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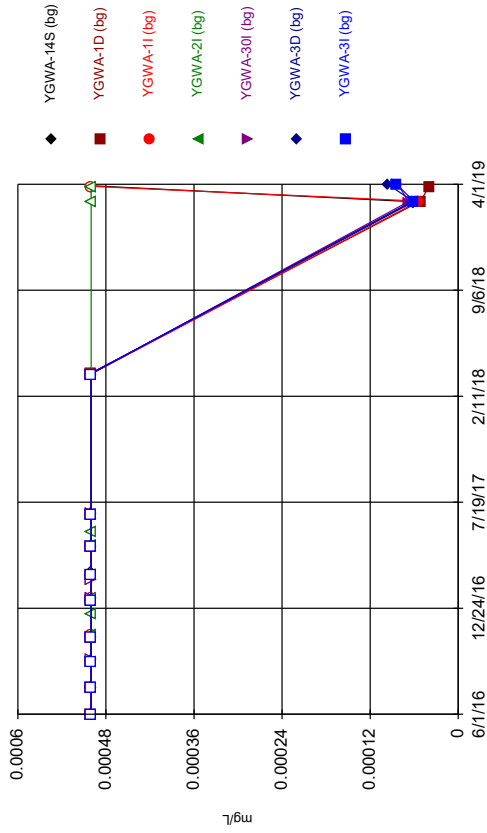
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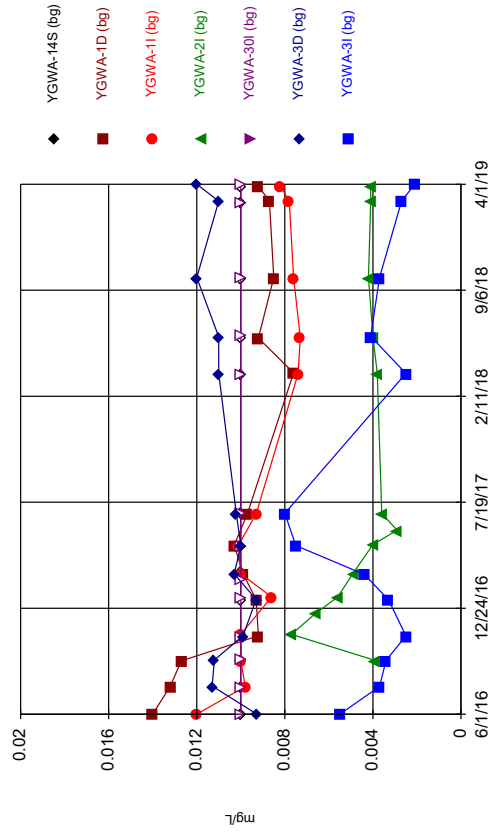
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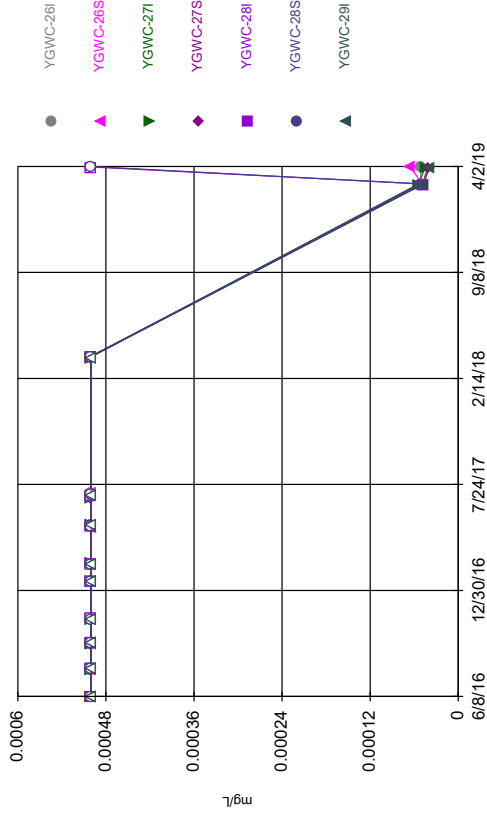
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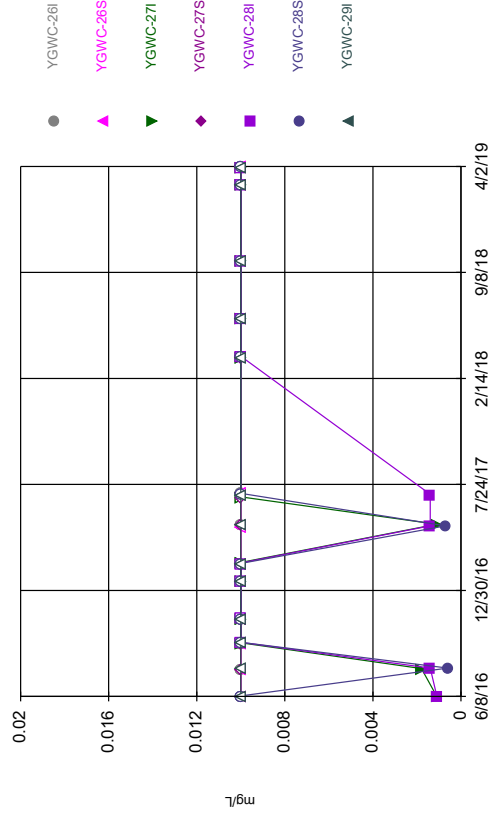
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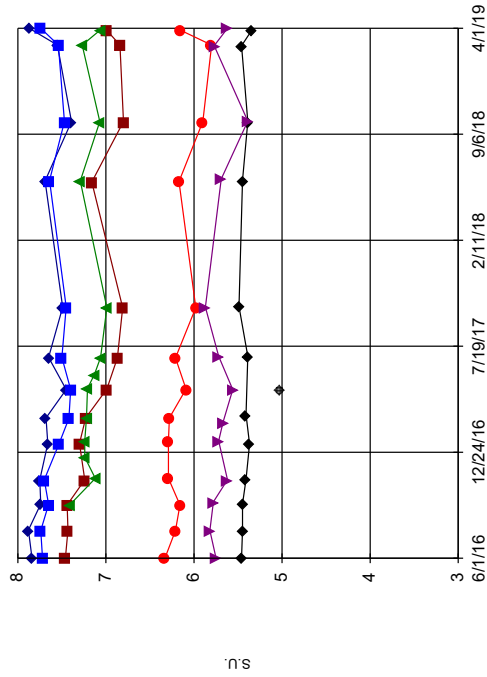
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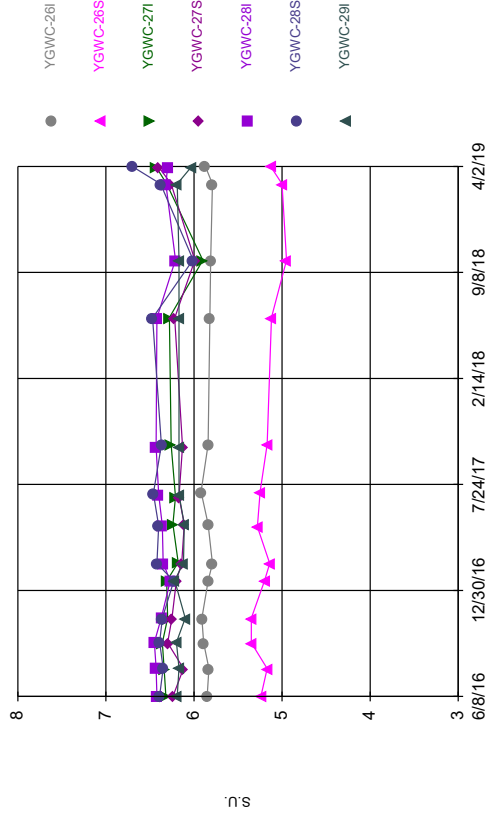
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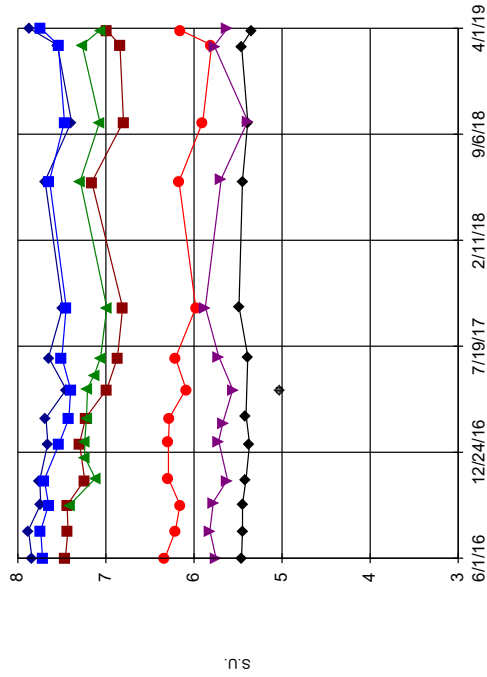
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



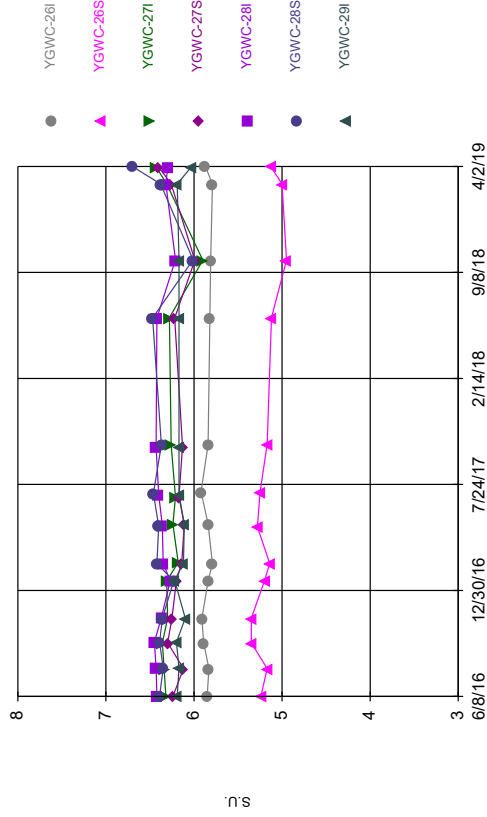
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Time Series



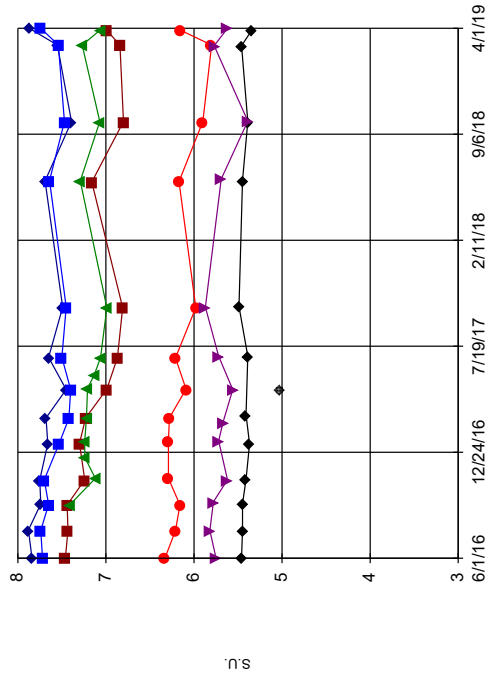
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Time Series



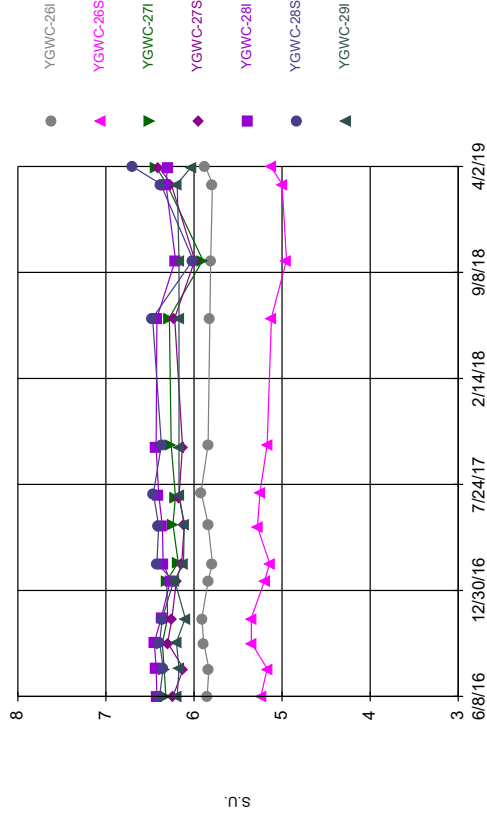
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Time Series



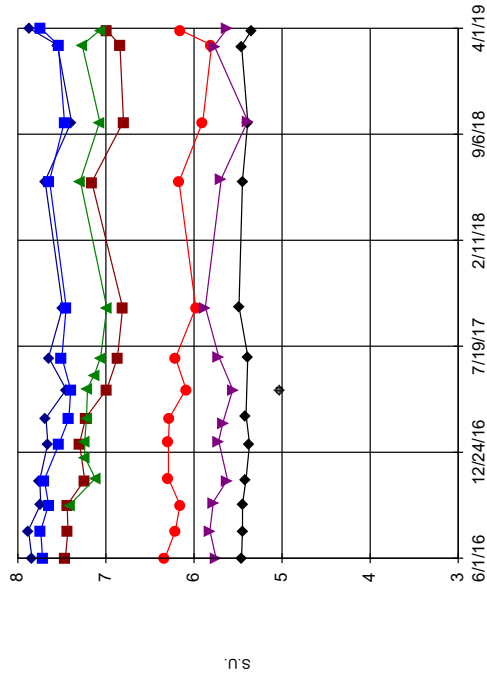
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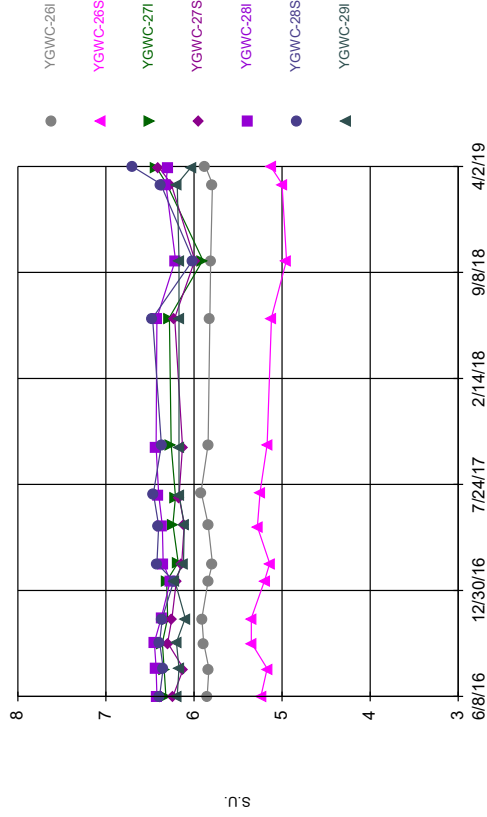
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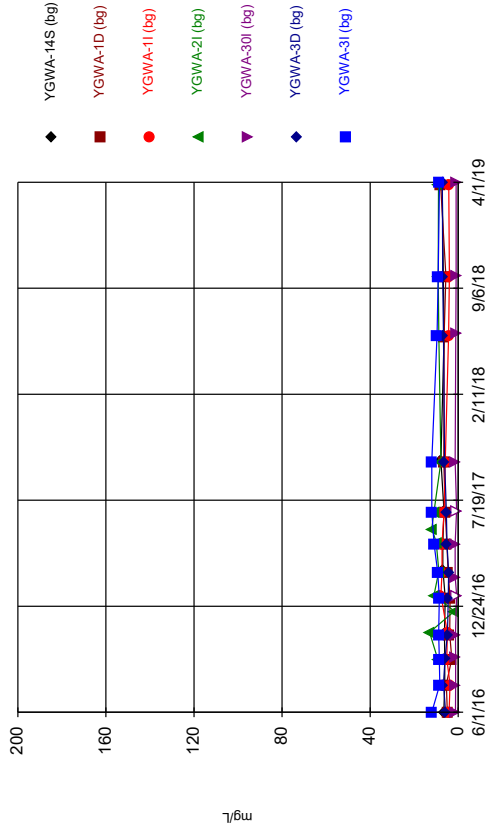
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

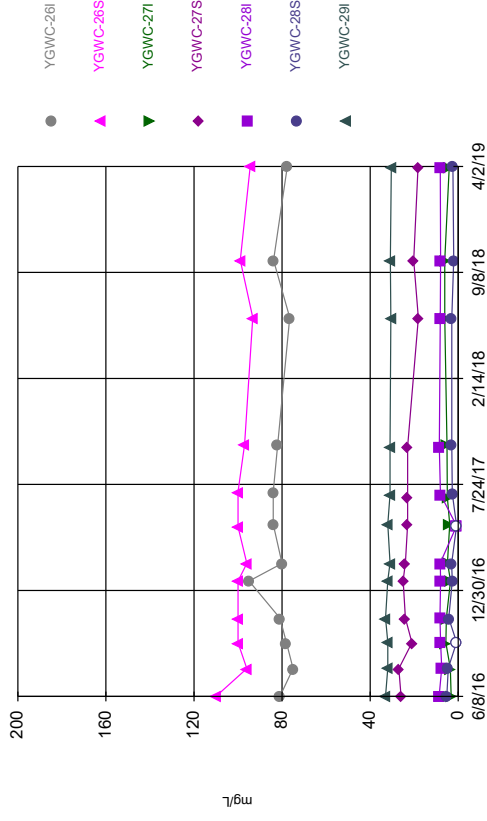
Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Time Series



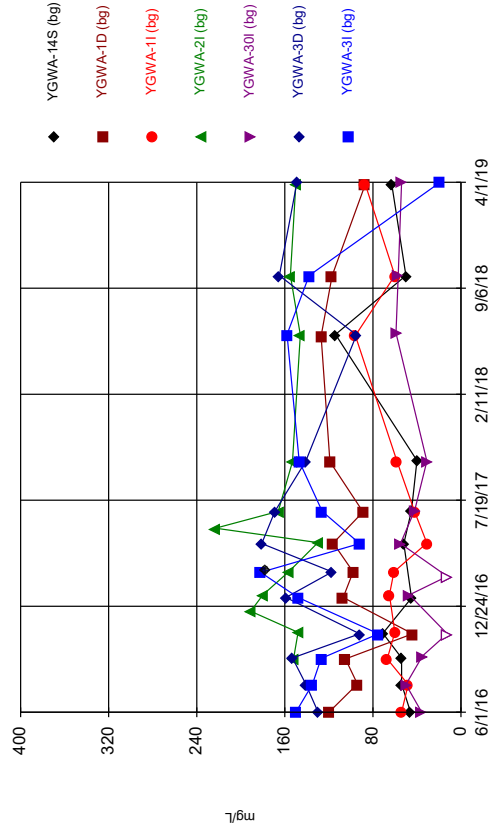
Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Time Series



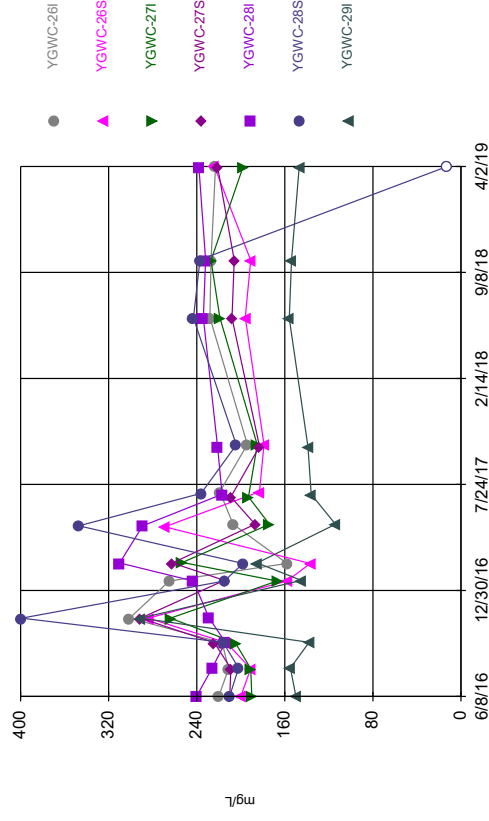
Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Time Series



Sanitas™ v.9.6.05 Sanitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Time Series



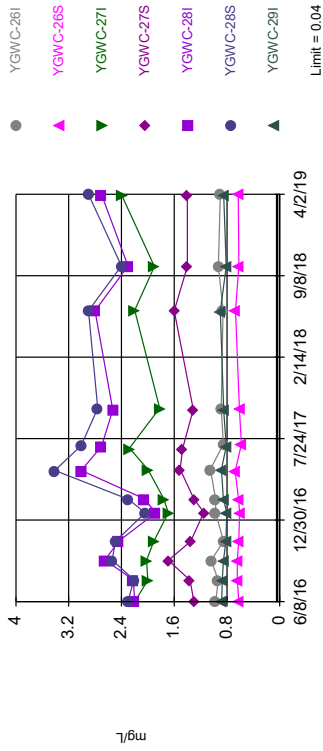
Interwell Prediction Limit

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/3/2019, 11:38 AM

Constituent	Well	Upper Lim.	Date	Observ.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
Boron (mg/L)	YGWC-261	0.04	4/2/2019	0.9	Yes	84	64.29	n/a	0.0002738	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-265	0.04	4/2/2019	0.63	Yes	84	64.29	n/a	0.0002738	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-271	0.04	4/1/2019	2.4	Yes	84	64.29	n/a	0.0002738	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-275	0.04	4/1/2019	1.4	Yes	84	64.29	n/a	0.0002738	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-281	0.04	4/1/2019	2.7	Yes	84	64.29	n/a	0.0002738	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-285	0.04	4/2/2019	2.9	Yes	84	64.29	n/a	0.0002738	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-291	0.04	4/1/2019	0.85	Yes	84	64.29	n/a	0.0002738	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-261	30.7	4/2/2019	16.1	No	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-265	30.7	4/2/2019	11.9	No	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-271	30.7	4/1/2019	27.4	No	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-275	30.7	4/1/2019	38	Yes	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-281	30.7	4/1/2019	33.8	Yes	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-285	30.7	4/2/2019	25.7	No	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-291	30.7	4/1/2019	11.9	No	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-261	4.9	4/2/2019	17.9	Yes	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-265	4.9	4/2/2019	13.5	Yes	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-271	4.9	4/1/2019	14.2	Yes	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-275	4.9	4/1/2019	19.7	Yes	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-281	4.9	4/1/2019	17.2	Yes	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-285	4.9	4/2/2019	19.5	Yes	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-291	4.9	4/1/2019	13.1	Yes	84	0	n/a	0.0002738	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-261	11.99	4/2/2019	77.6	Yes	84	2.381	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-265	11.99	4/2/2019	94.5	Yes	84	2.381	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-271	11.99	4/1/2019	4.1	No	84	2.381	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-275	11.99	4/1/2019	18.3	Yes	84	2.381	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-281	11.99	4/1/2019	8.2	No	84	2.381	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-285	11.99	4/2/2019	2.4	No	84	2.381	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-291	11.99	4/1/2019	30.4	Yes	84	2.381	No	0.001075	Param Inter 1 of 2

Exceeds Limit: YGWC-261, YGWC-26S, YGWC-271, YGWC-27S, YGWC-281, YGWC

Interwell Non-parametric Prediction Limit

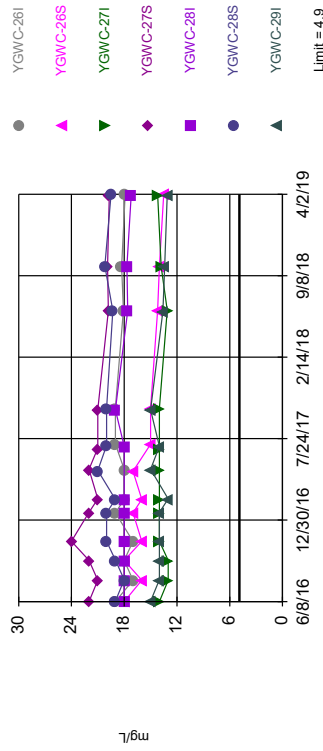


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 84 background values. 64.29% NDs. Limit is highest of 0.002738 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 5/3/2019 11:36 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-261, YGWC-26S, YGWC-271, YGWC-27S, YGWC-281, YGWC

Interwell Non-parametric Prediction Limit

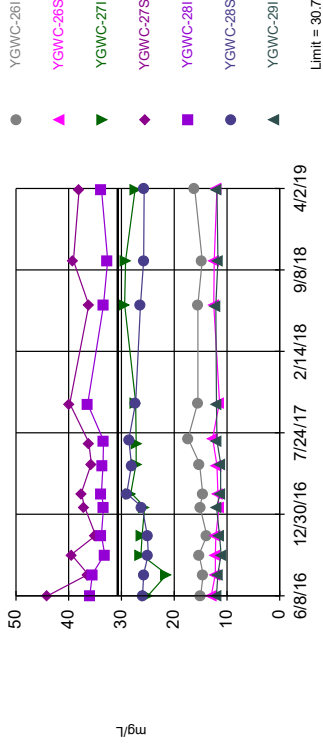


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. Annual per-constituent alpha = 0.003827. Individual comparison alpha = 0.0002738 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 5/3/2019 11:36 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-27S, YGWC-281

Interwell Non-parametric Prediction Limit

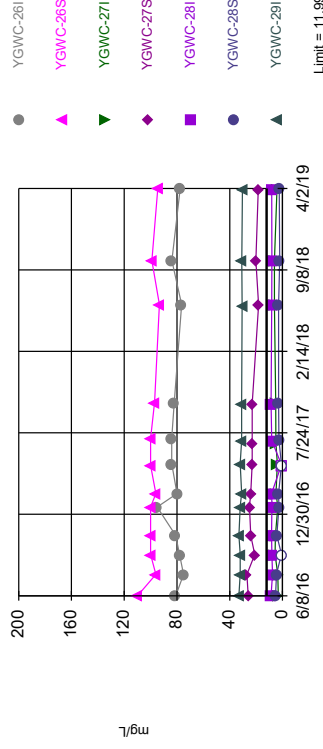


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 84 background values. Annual per-constituent alpha = 0.003827. Individual comparison alpha = 0.0002738 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 5/3/2019 11:36 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-261, YGWC-26S, YGWC-27S, YGWC-291

Interwell Parametric Prediction Limit



Background Data Summary: Mean=6.22, Std. Dev.=3.051, n=84, 2.381% NDs. Normality test: Shapiro Francia (@alpha = 0.01, calculated = 0.9773, critical = 0.96. Kappa = 1.891 (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 5/3/2019 11:36 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/3/2019 11:38 AM View: Interwell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	0.62				
6/9/2016		0.88	2.3	2.2	
7/25/2016					
7/26/2016					
8/1/2016	0.643				
8/2/2016		0.872	2.21	2.22	
9/13/2016					
9/14/2016					<0.04
9/15/2016					
9/19/2016					
9/20/2016	0.644				
9/21/2016		0.853	2.54	2.65	
11/1/2016					
11/2/2016					
11/4/2016					<0.04
11/7/2016	0.621	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	0.607		2.04	1.88	
1/19/2017		0.803			
2/21/2017	0.624		2.29		
2/22/2017		0.855		2.05	
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	0.676				
5/5/2017			3.41	3.01	
5/8/2017		0.884			
5/26/2017					<0.04
6/27/2017					
6/28/2017					<0.04
6/30/2017					
7/5/2017		0.811		2.7	
7/7/2017			3.01		
7/10/2017	0.58				
10/3/2017					<0.04
10/4/2017					
10/5/2017		0.851		2.53	
10/6/2017					
10/9/2017			2.76		
10/10/2017	0.612				
6/5/2018					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 5/3/2019 11:38 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
6/6/2018					
6/7/2018					<0.04
6/8/2018					
6/11/2018		0.9			
6/12/2018			2.9	2.8	
6/13/2018	0.67				
10/1/2018					<0.04
10/2/2018	0.62	0.81			
10/3/2018			2.4	2.3	
3/28/2019					
3/29/2019					0.0065 (J)
4/1/2019		0.85		2.7	
4/2/2019	0.63		2.9		

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/3/2019 11:38 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	13				
6/9/2016		12	26	36	
7/25/2016					
7/26/2016					
8/1/2016	12.2				
8/2/2016		11.7	25.8	35.5	
9/13/2016					
9/14/2016					23.5
9/15/2016					
9/19/2016					
9/20/2016	12.2				
9/21/2016		11.1	24.9	33.2	
11/1/2016					
11/2/2016					
11/4/2016					23.7
11/7/2016	12.1	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	11.5		26.1	33.4	
1/19/2017		12			
2/21/2017	11.7		29		
2/22/2017		11.2		33.8	
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	11.9				
5/5/2017			28.1	33.5	
5/8/2017		11.2			
5/26/2017					26.2
6/27/2017					
6/28/2017					26.1
6/30/2017					
7/5/2017		11.9		33.4	
7/7/2017			28.6		
7/10/2017	12.7				
10/3/2017					26.7
10/4/2017					
10/5/2017		12		36.4	
10/6/2017					
10/9/2017			27.3		
10/10/2017	11.4				
6/5/2018					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 5/3/2019 11:38 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
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	12.5				
10/1/2018					25
10/2/2018	12.4 (J)	11.7 (J)			
10/3/2018			25.8	32.6	
3/28/2019					
3/29/2019					23.5 (J)
4/1/2019		11.9 (J)		33.8	
4/2/2019	11.9 (J)		25.7		

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/3/2019 11:38 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	18				
6/9/2016		15	19	18	
7/25/2016					
7/26/2016					
8/1/2016	16				
8/2/2016		14	18	18	
9/13/2016					
9/14/2016					1.1
9/15/2016					
9/19/2016					
9/20/2016	18				
9/21/2016		14	19	18	
11/1/2016					
11/2/2016					
11/4/2016					1.4
11/7/2016	16	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	17		20	18	
1/19/2017		14			
2/21/2017	16		19		
2/22/2017		13		18	
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	17				
5/5/2017			21	19 (o)	
5/8/2017		15			
5/26/2017					0.93
6/27/2017					
6/28/2017					1
6/30/2017					
7/5/2017		14		18	
7/7/2017			20		
7/10/2017	15				
10/3/2017					1.2
10/4/2017					
10/5/2017		15		19	
10/6/2017					
10/9/2017			20		
10/10/2017	15				
6/5/2018					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 5/3/2019 11:38 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
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	14.2				
10/1/2018					1.1
10/2/2018	14	13.4			
10/3/2018			20.2	17.7	
3/28/2019					
3/29/2019					1.2
4/1/2019		13.1		17.2	
4/2/2019	13.5		19.5		

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/3/2019 11:38 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	110				
6/9/2016		33	5.2	8.7	
7/25/2016					
7/26/2016					
8/1/2016	96				
8/2/2016		32	4.5	7.5	
9/13/2016					
9/14/2016					9.4
9/15/2016					
9/19/2016					
9/20/2016	100				
9/21/2016		32	<1.5 (*)	8	
11/1/2016					
11/2/2016					
11/4/2016					13
11/7/2016	100	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	100		2.7	8	
1/19/2017		32			
2/21/2017	96		3		
2/22/2017		31		8.2	
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	100				
5/5/2017			<1.5 (*)	<1.5 (*)	
5/8/2017		32			
5/26/2017					12
6/27/2017					
6/28/2017					11
6/30/2017					
7/5/2017		31		8.1	
7/7/2017			2.7		
7/10/2017	100				
10/3/2017					7.9
10/4/2017					
10/5/2017		31		8.6	
10/6/2017					
10/9/2017			2.9		
10/10/2017	97				
6/5/2018					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 5/3/2019 11:38 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-29I	YGWC-28S	YGWC-28I	YGWA-2I (bg)
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	93.3				
10/1/2018					9.1
10/2/2018	99	30.8			
10/3/2018			2.1	8	
3/28/2019					
3/29/2019					9
4/1/2019		30.4		8.2	
4/2/2019	94.5		2.4		

Intrawell Prediction Limit

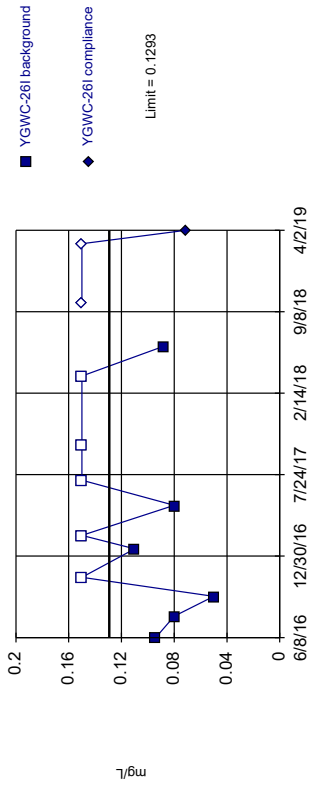
Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 5/3/2019, 2:20 PM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg.N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	YGWC-26I	0.1293	n/a	4/2/2019	0.071	No	11	45.45	ln(x)	0.001075	Param Intra 1 of 3
Fluoride (mg/L)	YGWC-26S	0.4061	n/a	4/2/2019	0.15ND	No	11	45.45	No	0.001075	Param Intra 1 of 3
Fluoride (mg/L)	YGWC-27I	0.3	n/a	4/1/2019	0.034	No	11	72.73	n/a	0.002806	NP Intra (NDs) 1 of 3
Fluoride (mg/L)	YGWC-27S	0.4186	n/a	4/1/2019	0.088	No	11	18.18	No	0.001075	Param Intra 1 of 3
Fluoride (mg/L)	YGWC-28I	0.3065	n/a	4/1/2019	0.078	No	11	36.36	No	0.001075	Param Intra 1 of 3
Fluoride (mg/L)	YGWC-28S	0.4188	n/a	4/2/2019	0.14	No	11	18.18	No	0.001075	Param Intra 1 of 3
Fluoride (mg/L)	YGWC-29I	0.3	n/a	4/1/2019	0.059	No	11	54.55	n/a	0.002806	NP Intra (NDs) 1 of 3
pH (S.U.)	YGWC-26I	6.19	5.79	4/2/2019	5.87	No	11	0	n/a	0.005613	NP Intra (normality) 1 of 3
pH (S.U.)	YGWC-26S	5.363	5.085	4/2/2019	5.13	No	11	0	No	0.0005373	Param Intra 1 of 3
pH (S.U.)	YGWC-27I	6.393	6.181	4/1/2019	6.43	Yes	11	0	No	0.0005373	Param Intra 1 of 3
pH (S.U.)	YGWC-27S	6.307	6.081	4/1/2019	6.4	Yes	11	0	No	0.0005373	Param Intra 1 of 3
pH (S.U.)	YGWC-28I	6.481	6.299	4/1/2019	6.3	No	11	0	No	0.0005373	Param Intra 1 of 3
pH (S.U.)	YGWC-28S	6.495	6.267	4/2/2019	6.7	Yes	11	0	No	0.0005373	Param Intra 1 of 3
pH (S.U.)	YGWC-29I	6.233	6.078	4/1/2019	6.03	Yes	11	0	No	0.0005373	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	YGWC-26I	292.8	n/a	4/2/2019	223	No	10	0	No	0.001075	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	YGWC-26S	284.3	n/a	4/2/2019	224	No	10	0	No	0.001075	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	YGWC-27I	263.3	n/a	4/1/2019	198	No	10	0	No	0.001075	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	YGWC-27S	280.4	n/a	4/1/2019	221	No	10	0	No	0.001075	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	YGWC-28I	300.9	n/a	4/1/2019	238	No	10	0	No	0.001075	Param Intra 1 of 3
Total Dissolved Solids (mg/L)	YGWC-28S	399	n/a	4/2/2019	12.5ND	No	10	0	n/a	0.00344	NP Intra (normality) 1 of 3
Total Dissolved Solids (mg/L)	YGWC-29I	247.3	n/a	4/1/2019	147	No	10	0	ln(x)	0.001075	Param Intra 1 of 3

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Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



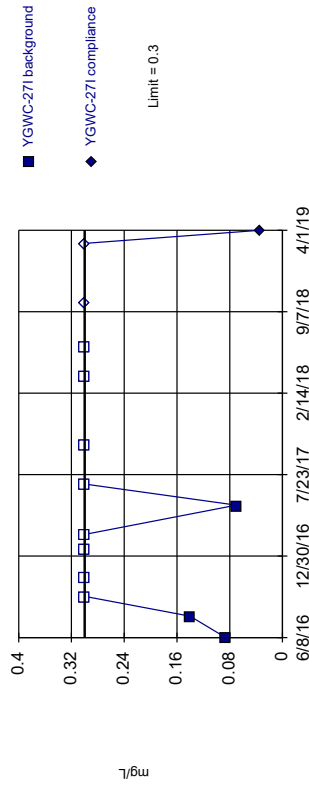
Background Data Summary (based on natural log transformation) (after Kaplan-Meier Adjustment): Mean=2.587, Std. Dev.=0.3044, n=11, 45.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.7979, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Fluoride Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Non-parametric



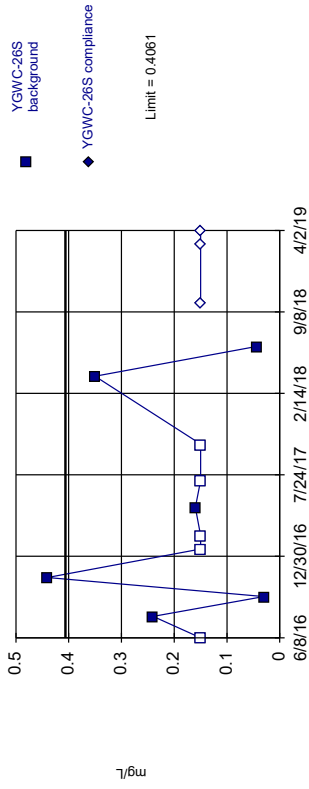
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 72.73% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Fluoride Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



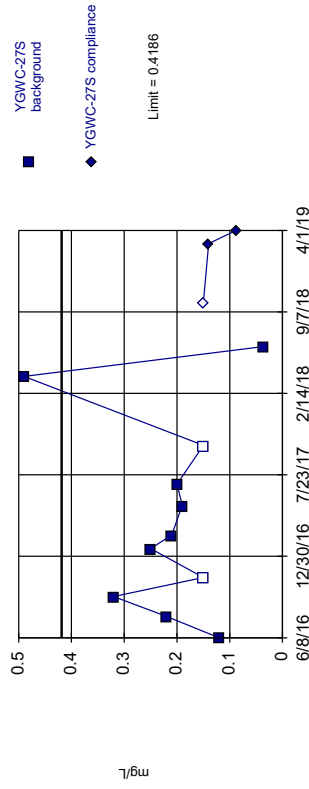
Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.1688, Std. Dev.=0.1336, n=11, 45.45% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8746, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Fluoride Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.2171, Std. Dev.=0.1135, n=11, 18.18% NDs. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9548, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

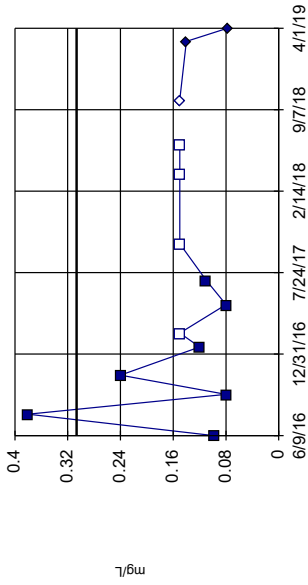
Constituent: Fluoride Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.1448, Std. Dev.=0.09101, n=11, 36.36% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8406, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3,
event alpha = 0.05132). Report alpha = 0.001075.

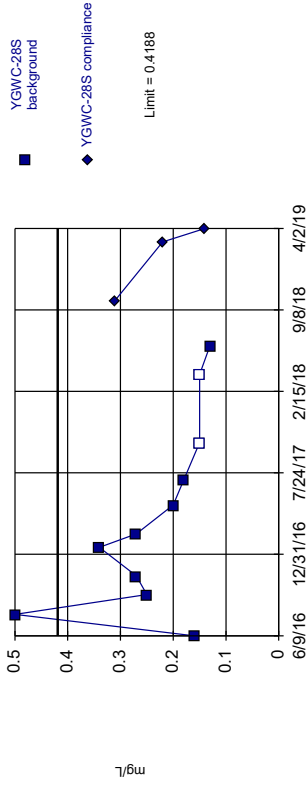
Constituent: Fluoride Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.237, Std. Dev.=0.1024, n=11, 18.18% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3,
event alpha = 0.05132). Report alpha = 0.001075.

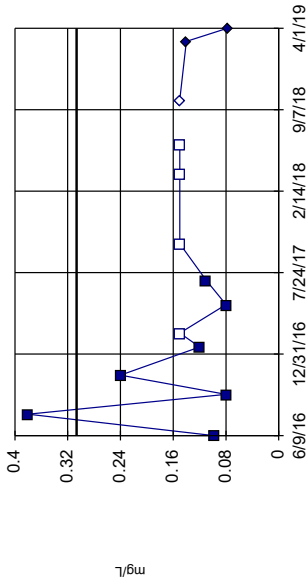
Constituent: Fluoride Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.1448, Std. Dev.=0.09101, n=11, 36.36% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8406, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3,
event alpha = 0.05132). Report alpha = 0.001075.

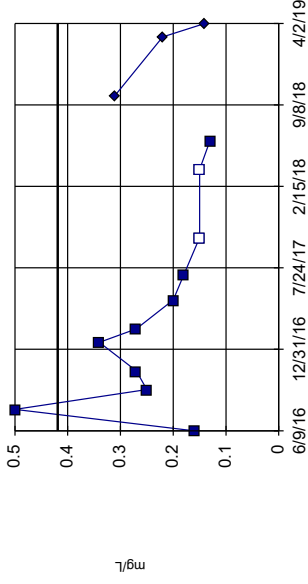
Constituent: Fluoride Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=5.61, Std. Dev.=0.579, n=11, 18.18% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3,
event alpha = 0.05132). Report alpha = 0.001075.

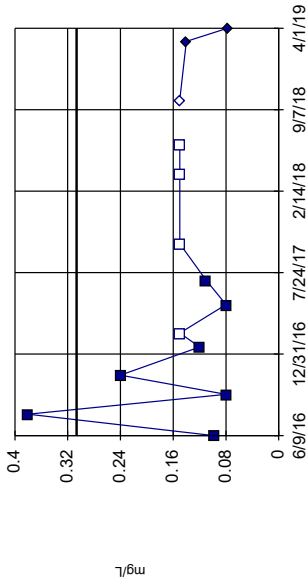
Constituent: pH Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=0.1448, Std. Dev.=0.09101, n=11, 36.36% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8406, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3,
event alpha = 0.05132). Report alpha = 0.001075.

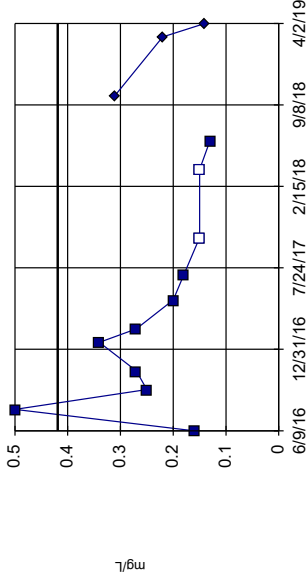
Constituent: Fluoride Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Santitas™ v.9.6.05 Santitas software licensed to ACC, UG
Hollow symbols indicate censored values.

Within Limit

Prediction Limit

Intrawell Non-parametric



Background Data Summary (after Kaplan-Meier Adjustment): Mean=5.61, Std. Dev.=0.579, n=11, 18.18% NDs.
Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.92, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3,
event alpha = 0.05132). Report alpha = 0.001075.

Constituent: pH Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

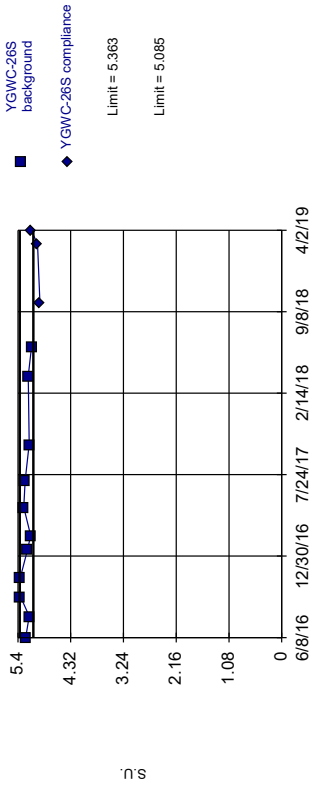
Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 11 background values. 54.55% NDs. Well-constituent pair annual alpha = 0.005605. Individual comparison alpha = 0.002806 (1 of 3).

Constituent: Fluoride Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Constituent: pH Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limits

Prediction Limit
Intrawell Parametric

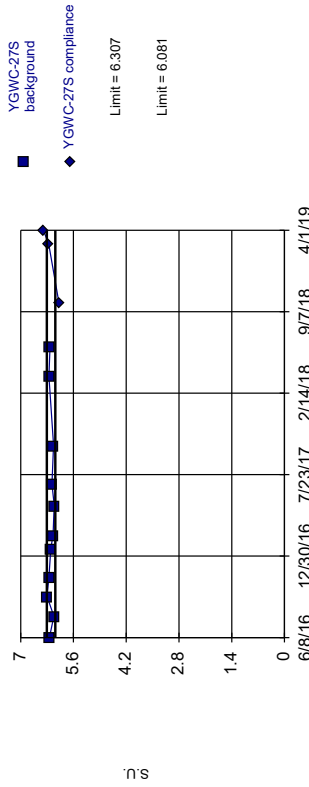


Background Data Summary: Mean=5.224, Std. Dev.=0.07827, n=11, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9263, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: pH Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limits

Prediction Limit
Intrawell Parametric

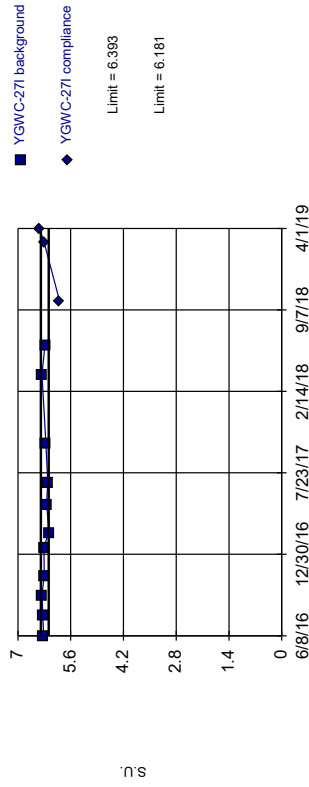


Background Data Summary: Mean=6.194, Std. Dev.=0.0636, n=11, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9342, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: pH Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limits

Prediction Limit
Intrawell Parametric

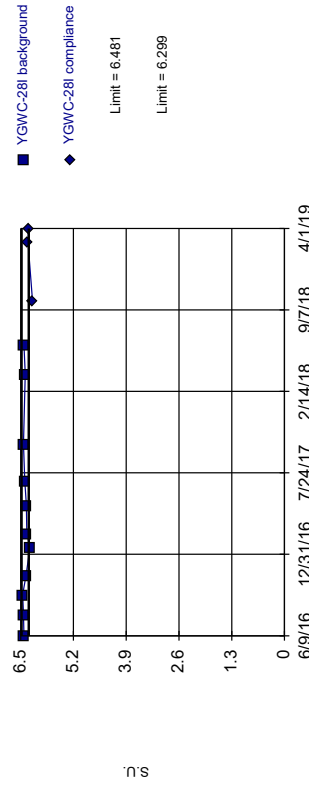


Background Data Summary: Mean=6.287, Std. Dev.=0.05968, n=11, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9485, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: pH Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limits

Prediction Limit
Intrawell Parametric

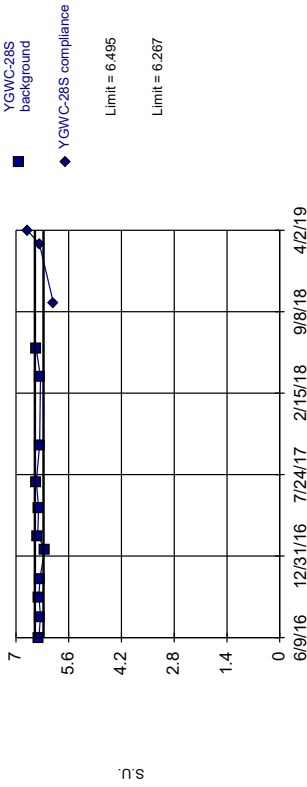


Background Data Summary: Mean=6.39, Std. Dev.=0.05099, n=11, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8932, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: pH Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limits

Prediction Limit
Intrawell Parametric

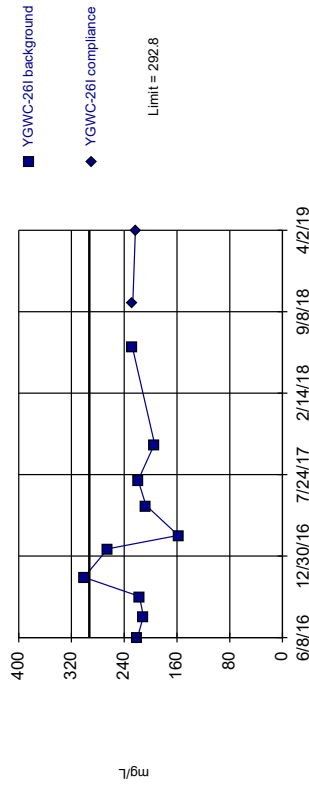


Background Data Summary: Mean=6.381, Std. Dev.=0.06441, n=11, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9054, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: pH Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit
Intrawell Parametric

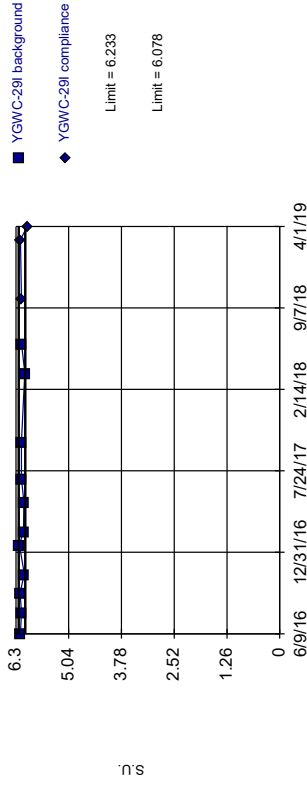


Background Data Summary: Mean=222, Std. Dev.=38.57, n=10, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.922, critical = 0.781. Kappa = 1.836 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Total Dissolved Solids Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limits

Prediction Limit
Intrawell Parametric

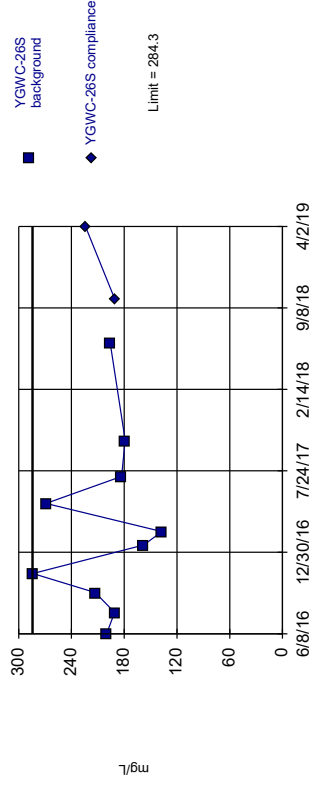


Background Data Summary: Mean=6.155, Std. Dev.=0.04344, n=11, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9119, critical = 0.792. Kappa = 1.776 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: pH Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit
Intrawell Parametric

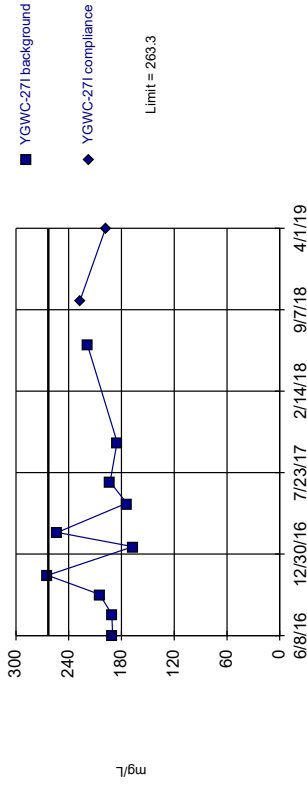


Background Data Summary: Mean=201, Std. Dev.=45.38, n=10, Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.9181, critical = 0.781. Kappa = 1.836 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Total Dissolved Solids Analysis Run 5/3/2019 2:18 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit
Intrawell Parametric

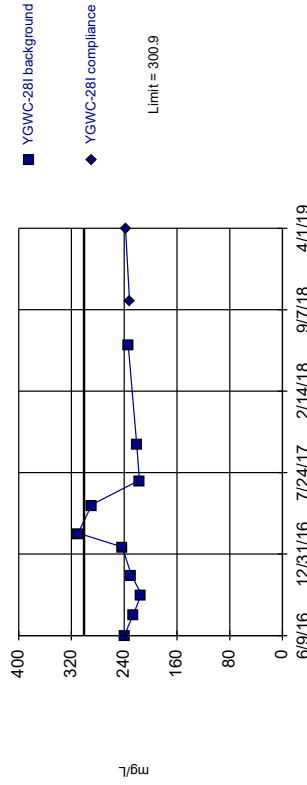


Background Data Summary: Mean=204.1, Std. Dev.=32.22, n=10, Normality test: Shapiro.Wilk.@alpha = 0.01, calculated = 0.8837, critical = 0.781. Kappa = 1.836 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Total Dissolved Solids Analysis Run 5/3/2019 2:19 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit
Intrawell Parametric

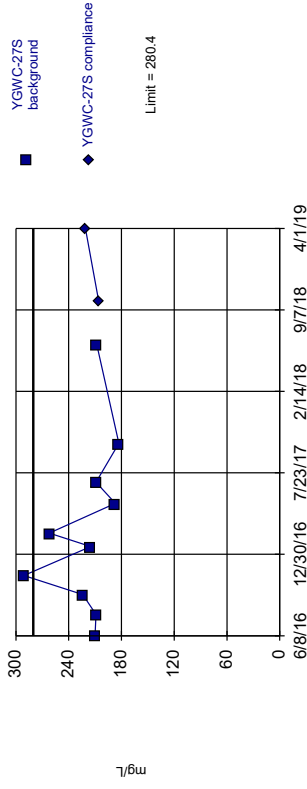


Background Data Summary: Mean=242.3, Std. Dev.=31.93, n=10, Normality test: Shapiro.Wilk.@alpha = 0.01, calculated = 0.795, critical = 0.781. Kappa = 1.836 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Total Dissolved Solids Analysis Run 5/3/2019 2:19 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

Prediction Limit
Intrawell Parametric

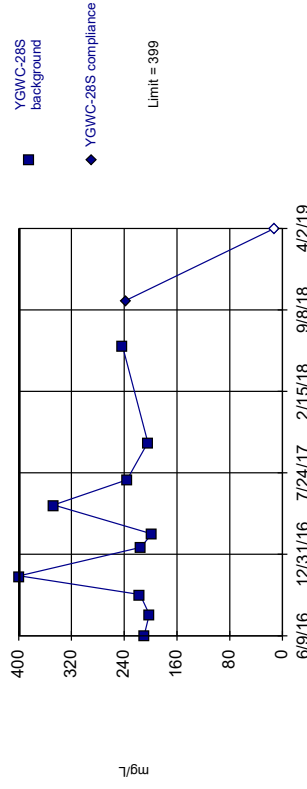


Background Data Summary: Mean=219.8, Std. Dev.=32.98, n=10, Normality test: Shapiro.Wilk.@alpha = 0.01, calculated = 0.8434, critical = 0.781. Kappa = 1.836 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Total Dissolved Solids Analysis Run 5/3/2019 2:19 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit

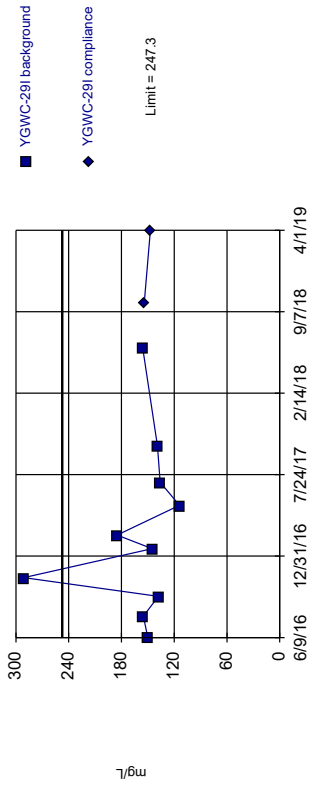
Prediction Limit
Intrawell Non-parametric



Non-parametric test used in lieu of parametric prediction limit because the Shapiro Wilk normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 10 background values. Well-constituent pair annual alpha = 0.006868. Individual comparison alpha = 0.00344 (1 of 3).

Constituent: Total Dissolved Solids Analysis Run 5/3/2019 2:19 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limit Prediction Limit
Intrawell Parametric



Background Data Summary (based on natural log transformation): Mean=5.048, Std. Dev.=0.2517, n=10. Normality test: Shapiro Wilk @alpha = 0.01, calculated = 0.8109, critical = 0.781. Kappa = 1.836 (c=7, w=7, 1 of 3, event alpha = 0.05132). Report alpha = 0.001075.

Constituent: Total Dissolved Solids Analysis Run 5/3/2019 2:19 PM View: Intrawell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/3/2019 2:20 PM View: Intrawell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26I
6/8/2016	0.094 (J)	
8/1/2016	0.08 (J)	
9/20/2016	0.05 (J)	
11/7/2016	<0.3 (*)	
1/18/2017	0.11 (J)	
2/21/2017	<0.3 (*)	
5/8/2017	0.08 (J)	
7/10/2017	<0.3 (*)	
10/10/2017	<0.3	
3/30/2018	<0.3	
6/13/2018	0.088 (J)	
10/2/2018		<0.3
2/27/2019		<0.3
4/2/2019		0.071 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/3/2019 2:20 PM View: Intrawell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-26S
6/8/2016	<0.3	
8/1/2016	0.24 (J)	
9/20/2016	0.03 (J)	
11/7/2016	0.44	
1/18/2017	<0.3 (*)	
2/21/2017	<0.3 (*)	
5/3/2017	0.16 (J)	
7/10/2017	<0.3 (*)	
10/10/2017	<0.3	
3/30/2018	0.35	
6/13/2018	0.044 (J)	
10/2/2018		<0.3
2/27/2019		<0.3
4/2/2019		<0.3

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-27I
6/8/2016	0.086 (J)	
8/1/2016	0.14 (J)	
9/20/2016	<0.3	
11/7/2016	<0.3 (*)	
1/18/2017	<0.3 (*)	
2/23/2017	<0.3 (*)	
5/8/2017	0.07 (J)	
6/30/2017	<0.3 (*)	
10/9/2017	<0.3 (*)	
3/29/2018	<0.3	
6/13/2018	<0.3	
10/2/2018		<0.3
2/27/2019		<0.3
4/1/2019		0.034 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/3/2019 2:20 PM View: Intrawell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-27S
6/8/2016	0.12 (J)	
8/1/2016	0.22 (J)	
9/20/2016	0.32	
11/7/2016	<0.3 (*)	
1/19/2017	0.25 (J)	
2/22/2017	0.21 (J)	
5/8/2017	0.19 (J)	
6/30/2017	0.2 (J)	
10/6/2017	<0.3 (*)	
3/29/2018	0.49	
6/12/2018	0.037 (J)	
10/2/2018		<0.3
2/27/2019		0.14 (J)
4/1/2019		0.088 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/3/2019 2:20 PM View: Intrawell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28I
6/9/2016	0.098 (J)	
8/2/2016	0.38	
9/21/2016	0.08 (J)	
11/8/2016	0.24 (J)	
1/18/2017	0.12 (J)	
2/22/2017	<0.3 (*)	
5/5/2017	0.08 (J)	
7/5/2017	0.11 (J)	
10/5/2017	<0.3 (*)	
3/30/2018	<0.3	
6/12/2018	<0.3	
10/3/2018		<0.3
2/27/2019		0.14 (J)
4/1/2019		0.078 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/3/2019 2:20 PM View: Intrawell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28S
6/9/2016	0.16 (J)	
8/2/2016	0.5	
9/21/2016	0.25 (J)	
11/7/2016	0.27 (J)	
1/18/2017	0.34	
2/21/2017	0.27 (J)	
5/5/2017	0.2 (J)	
7/7/2017	0.18 (J)	
10/9/2017	<0.3 (*)	
3/30/2018	<0.3	
6/12/2018	0.13 (J)	
10/3/2018		0.31
2/27/2019		0.22 (J)
4/2/2019		0.14 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 5/3/2019 2:20 PM View: Intrawell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29I	YGWC-29I
6/9/2016	0.085 (J)	
8/2/2016	0.09 (J)	
9/21/2016	0.09 (J)	
11/7/2016	<0.3 (*)	
1/19/2017	<0.3 (*)	
2/22/2017	<0.3 (*)	
5/8/2017	0.06 (J)	
7/5/2017	0.08 (J)	
10/5/2017	<0.3 (*)	
3/29/2018	<0.3	
6/11/2018	<0.3	
10/2/2018		<0.3
2/27/2019		0.15 (J)
4/1/2019		0.059 (J)

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26I
6/8/2016	5.85	
8/1/2016	5.83	
9/20/2016	5.89	
11/7/2016	5.91	
1/18/2017	5.84	
2/21/2017	5.79	
5/8/2017	5.84	
7/10/2017	5.92	
10/10/2017	5.84	
3/30/2018	6.19	
6/13/2018	5.82	
10/2/2018		5.81
2/27/2019		5.79
4/2/2019		5.87

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-26S
6/8/2016	5.24	
8/1/2016	5.17	
9/20/2016	5.35	
11/7/2016	5.35	
1/18/2017	5.2	
2/21/2017	5.14	
5/3/2017	5.28	
7/10/2017	5.25	
10/10/2017	5.17	
3/30/2018	5.19	
6/13/2018	5.12	
10/2/2018		4.95
2/27/2019		5
4/2/2019		5.13

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-27I
6/8/2016	6.32	
8/1/2016	6.34	
9/20/2016	6.36	
11/7/2016	6.3	
1/18/2017	6.31	
2/23/2017	6.18	
5/8/2017	6.24	
6/30/2017	6.21	
10/9/2017	6.26	
3/29/2018	6.36	
6/13/2018	6.28	
10/2/2018		5.9
2/27/2019		6.31
4/1/2019		6.43

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-27S
6/8/2016	6.24	
8/1/2016	6.12	
9/20/2016	6.3	
11/7/2016	6.25	
1/19/2017	6.2	
2/22/2017	6.14	
5/8/2017	6.11	
6/30/2017	6.17	
10/6/2017	6.13	
3/29/2018	6.25	
6/12/2018	6.22	
10/2/2018		5.99
2/27/2019		6.26
4/1/2019		6.4

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28I
6/9/2016	6.42	
8/2/2016	6.43	
9/21/2016	6.45	
11/8/2016	6.37	
1/18/2017	6.27	
2/22/2017	6.35	
5/5/2017	6.36	
7/5/2017	6.4	
10/5/2017	6.43	
3/30/2018	6.39	
6/12/2018	6.42	
10/3/2018		6.21
2/27/2019		6.32
4/1/2019		6.3

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28S
6/9/2016	6.39	
8/2/2016	6.35	
9/21/2016	6.39	
11/7/2016	6.36	
1/18/2017	6.23	
2/21/2017	6.42	
5/5/2017	6.4	
7/7/2017	6.46	
10/9/2017	6.37	
3/30/2018	6.35	
6/12/2018	6.47	
10/3/2018		6.01
2/27/2019		6.38
4/2/2019		6.7

Prediction Limit

Constituent: pH (S.U.) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29I	YGWC-29I
6/9/2016	6.19	
8/2/2016	6.17	
9/21/2016	6.2	
11/7/2016	6.1	
1/19/2017	6.22	
2/22/2017	6.12	
5/8/2017	6.11	
7/5/2017	6.17	
10/5/2017	6.17	
3/29/2018	6.09	
6/11/2018	6.17	
10/2/2018		6.17
2/27/2019		6.19
4/1/2019		6.03

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-26I
6/8/2016	220	
8/1/2016	211	
9/20/2016	217	
11/7/2016	301	
1/18/2017	265 (D)	
2/21/2017	158	
5/8/2017	207	
7/10/2017	219	
10/10/2017	194	
6/13/2018	228	
10/2/2018		227
4/2/2019		223

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-26S
6/8/2016	200	
8/1/2016	191	
9/20/2016	213	
11/7/2016	284	
1/18/2017	158 (D)	
2/21/2017	137	
5/3/2017	269	
7/10/2017	183	
10/10/2017	179	
6/13/2018	196	
10/2/2018		191
4/2/2019		224

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27I	YGWC-27I
6/8/2016	190	
8/1/2016	191	
9/20/2016	205	
11/7/2016	264	
1/18/2017	167 (D)	
2/23/2017	253	
5/8/2017	174	
6/30/2017	193	
10/9/2017	185	
6/13/2018	219	
10/2/2018		227
4/1/2019		198

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-27S	YGWC-27S
6/8/2016	210	
8/1/2016	209	
9/20/2016	224	
11/7/2016	291	
1/19/2017	215 (D)	
2/22/2017	262	
5/8/2017	187	
6/30/2017	209	
10/6/2017	183	
6/12/2018	208	
10/2/2018		206
4/1/2019		221

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28I	YGWC-28I
6/9/2016	240	
8/2/2016	226	
9/21/2016	214	
11/8/2016	229	
1/18/2017	243 (D)	
2/22/2017	310	
5/5/2017	289	
7/5/2017	217	
10/5/2017	221	
6/12/2018	234	
10/3/2018		232
4/1/2019		238

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-28S	YGWC-28S
6/9/2016	210	
8/2/2016	202	
9/21/2016	216	
11/7/2016	399	
1/18/2017	215 (D)	
2/21/2017	198	
5/5/2017	347	
7/7/2017	236	
10/9/2017	204	
6/12/2018	243	
10/3/2018		237
4/2/2019		<25

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 5/3/2019 2:20 PM View: IntraWell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-29I	YGWC-29I
6/9/2016	150	
8/2/2016	155	
9/21/2016	138	
11/7/2016	291	
1/19/2017	145 (D)	
2/22/2017	185	
5/8/2017	114	
7/5/2017	136	
10/5/2017	139	
6/11/2018	156	
10/2/2018		154
4/1/2019		147

Confidence Interval

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 6/27/2019, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	YGWC-26I	0.0025	0.00065	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.0025	0.00065	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.0025	0.00069	0.01	No	13	61.54	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-27S	0.0025	0.00065	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.0025	0.00065	0.01	No	13	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.0025	0.0007	0.01	No	13	61.54	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-29I	0.0025	0.00065	0.01	No	13	100	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06774	0.06427	2	No	13	0	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02914	0.02669	2	No	13	0	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.081	0.063	2	No	13	0	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1086	0.09731	2	No	13	0	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.092	0.086	2	No	13	0	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28S	0.2196	0.207	2	No	13	0	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.07548	0.06494	2	No	13	0	No	0.01	Param.
Beryllium (mg/L)	YGWC-26I	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	YGWC-26S	0.00125	0.0001	0.004	No	11	18.18	No	0.006	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.0015	0.0001	0.004	No	11	27.27	No	0.006	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	YGWC-28I	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	YGWC-28S	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Beryllium (mg/L)	YGWC-29I	0.0015	0.0015	0.004	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	YGWC-26I	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	YGWC-26S	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	YGWC-27I	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	YGWC-27S	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0005	0.00009	0.005	No	11	9.091	No	0.006	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0005	0.0005	0.005	No	11	100	No	0.006	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0005	0.0001	0.005	No	11	18.18	No	0.006	NP (normality)
Chromium (mg/L)	YGWC-26I	0.005	0.0008	0.1	No	11	72.73	No	0.006	NP (normality)
Chromium (mg/L)	YGWC-26S	0.009221	0.00141	0.1	No	11	27.27	No	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.005	0.1	No	11	100	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.005	0.1	No	11	90.91	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.00125	0.1	No	11	90.91	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.00125	0.1	No	11	90.91	No	0.006	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.00125	0.1	No	11	90.91	No	0.006	NP (NDs)
Cobalt (mg/L)	YGWC-26I	0.005	0.00125	0.035	No	13	100	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.003003	0.001921	0.035	No	13	7.692	ln(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.078	0.0016	0.035	No	13	0	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-27S	0.0026	0.0023	0.035	No	13	7.692	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	13	92.31	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0013	0.00085	0.035	No	13	7.692	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.005	0.00052	0.035	No	13	69.23	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.387	0.4078	5	No	13	7.692	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9156	0.5674	5	No	13	7.692	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.334	2.675	5	No	13	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.032	0.5815	5	No	13	7.692	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.7691	0.3211	5	No	13	7.692	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.8679	0.409	5	No	13	7.692	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.205	0.6015	5	No	13	7.692	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.15	0.071	4	No	14	50	No	0.01	NP (normality)

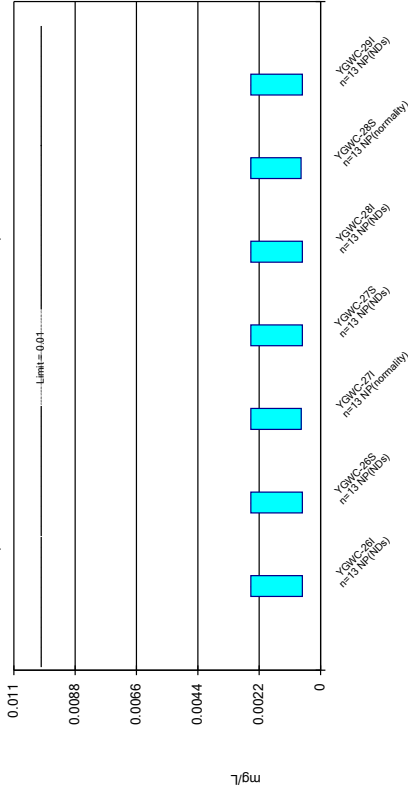
Confidence Interval

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 6/27/2019, 11:00 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	YGWC-26S	0.24	0.1	4	No	14	57.14	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	YGWC-27I	0.15	0.086	4	No	14	71.43	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.3429	0.1487	4	No	14	21.43	No	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.24	0.08	4	No	14	35.71	No	0.01	NP (Cohens/xfrm)
Fluoride (mg/L)	YGWC-28S	0.2952	0.1638	4	No	14	14.29	sqrt(x)	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.15	0.08	4	No	14	50	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-26I	0.006906	0.006324	0.04	No	13	0	No	0.01	Param.
Lithium (mg/L)	YGWC-26S	0.025	0.0025	0.04	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-27I	0.01138	0.008559	0.04	No	13	0	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.025	0.0025	0.04	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007173	0.006642	0.04	No	13	0	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.025	0.0025	0.04	No	12	100	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.006875	0.005494	0.04	No	13	0	No	0.01	Param.
Mercury (mg/L)	YGWC-26I	0.00025	0.000051	0.002	No	11	81.82	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.00025	0.000066	0.002	No	11	81.82	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.00025	0.000054	0.002	No	11	81.82	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.00025	0.000049	0.002	No	11	81.82	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.00025	0.0001	0.002	No	11	90.91	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.00025	0.0001	0.002	No	11	90.91	No	0.006	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.00025	0.000047	0.002	No	11	81.82	No	0.006	NP (NDs)
Molybdenum (mg/L)	YGWC-26I	0.0075	0.005	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-26S	0.0075	0.005	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.005	0.0018	0.1	No	13	76.92	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27S	0.0075	0.005	0.1	No	13	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.005	0.0014	0.1	No	13	69.23	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.0075	0.0007	0.1	No	13	84.62	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.0075	0.005	0.1	No	13	100	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.005	0.0017	0.05	No	11	18.18	No	0.006	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0012	0.05	No	11	63.64	No	0.006	NP (normality)
Selenium (mg/L)	YGWC-27I	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	YGWC-27S	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.0012	0.05	No	11	90.91	No	0.006	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.001	0.05	No	11	90.91	No	0.006	NP (NDs)
Selenium (mg/L)	YGWC-29I	0.005	0.005	0.05	No	11	100	No	0.006	NP (NDs)

Non-Parametric Confidence Interval

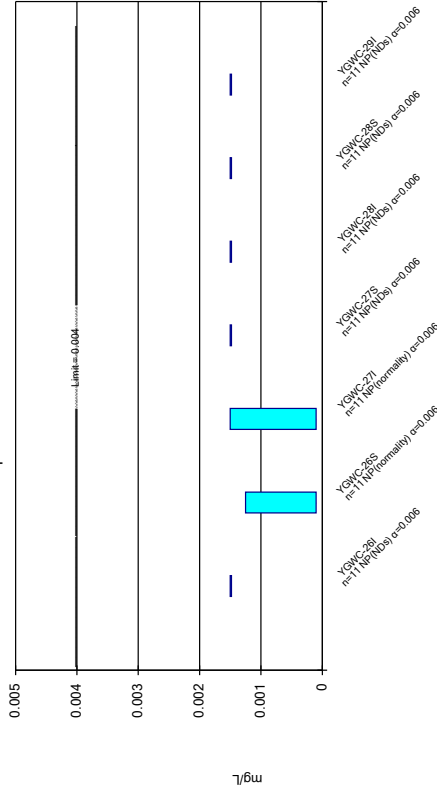
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 6/27/2019 10:54 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

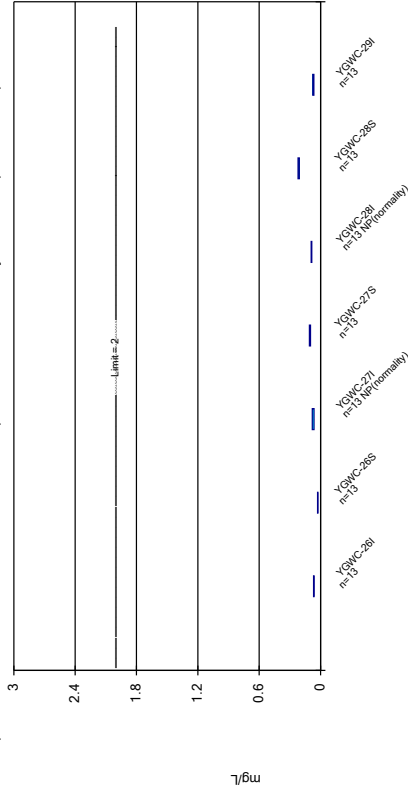
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 6/27/2019 10:54 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

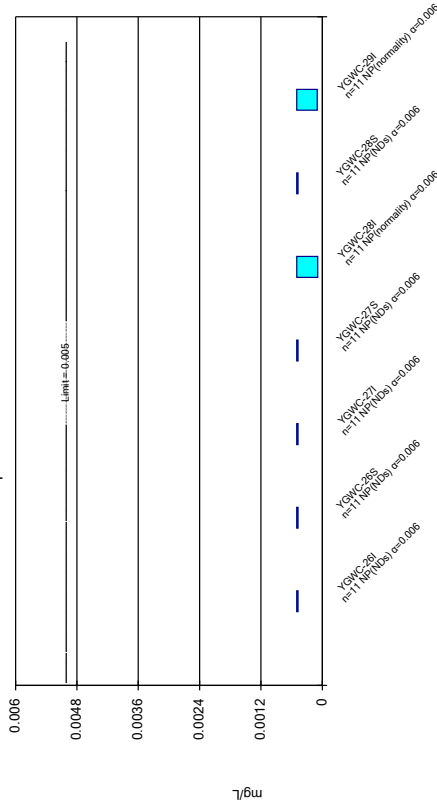
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/27/2019 10:54 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 6/27/2019 10:54 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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	<0.0013	<0.0013	0.0011 (J)	<0.0013			
6/9/2016					<0.0013	0.00094 (J)	<0.0013
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	
Mean	0.002358	0.002358	0.001838	0.002358	0.002358	0.001829	0.002358
Std. Dev.	0.0005131	0.0005131	0.000881	0.0005131	0.0005131	0.0008852	0.0005131
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.00065	0.00065	0.00069	0.00065	0.00065	0.0007	0.00065

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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	
Mean	0.06601	0.02792	0.06865	0.1029	0.08885	0.2133	0.07021
Std. Dev.	0.002332	0.001643	0.007009	0.007577	0.004041	0.008469	0.00709
Upper Lim.	0.06774	0.02914	0.081	0.1086	0.092	0.2196	0.07548
Lower Lim.	0.06427	0.02669	0.063	0.09731	0.086	0.207	0.06494

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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					<0.0025	<0.0025	<0.0025
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	
Mean	0.001477	0.0003891	0.0005164	0.001477	0.001477	0.001477	0.001477
Std. Dev.	7.538E-05	0.0004921	0.0005835	7.538E-05	7.538E-05	7.538E-05	7.538E-05
Upper Lim.	0.0015	0.00125	0.0015	0.0015	0.0015	0.0015	0.0015
Lower Lim.	0.0015	0.0001	0.0001	0.0015	0.0015	0.0015	0.0015

Confidence Interval

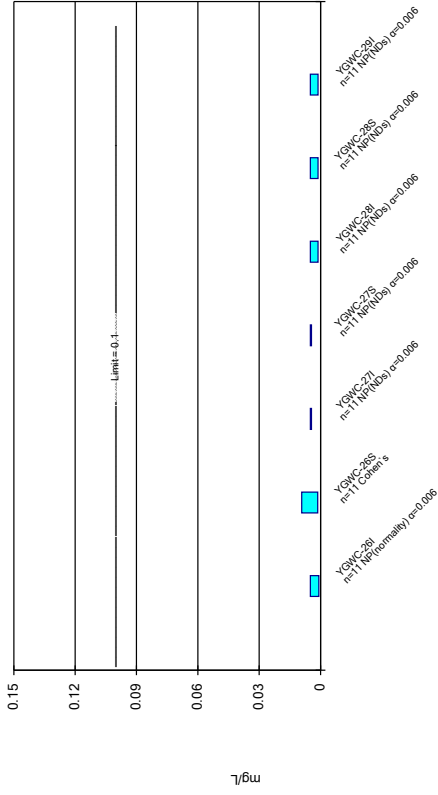
Constituent: Cadmium (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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	<0.001	<0.001	<0.001	<0.001			
8/2/2016					0.0001 (J)	<0.001	0.0001 (J)
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					0.0001 (J)	<0.001	0.0002 (J)
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	0.0002 (J)
11/8/2016					9E-05 (J)		
1/18/2017	<0.001	<0.001	<0.001		9E-05 (J)	<0.001	
1/19/2017				<0.001			0.0001 (J)
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	0.0001 (J)		0.0001 (J)
2/23/2017			<0.001				
5/3/2017		<0.001					
5/5/2017					9E-05 (J)	<0.001	
5/8/2017	<0.001		<0.001	<0.001			0.0002 (J)
6/30/2017			<0.001	<0.001			
7/5/2017					0.0002 (J)		0.0002 (J)
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	0.00014 (J)	<0.001	0.00026 (J)
4/1/2019			<0.001	<0.001	0.00043 (J)		0.00022 (J)
4/2/2019	<0.001	<0.001				<0.001	
Mean	0.0005682	0.0005682	0.0005682	0.0005682	0.0002173	0.0005682	0.0003027
Std. Dev.	0.0002261	0.0002261	0.0002261	0.0002261	0.0001822	0.0002261	0.0003332
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	0.0005	0.0005	0.0005	0.0005	9E-05	0.0005	0.0001

Parametric and Non-Parametric (NP) Confidence Interval

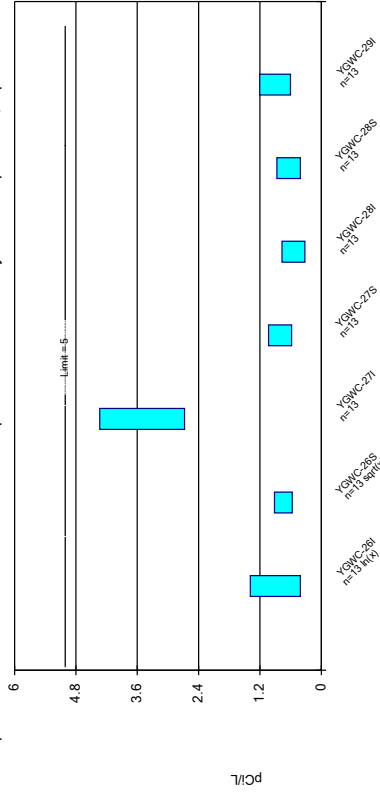
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/27/2019 10:54 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

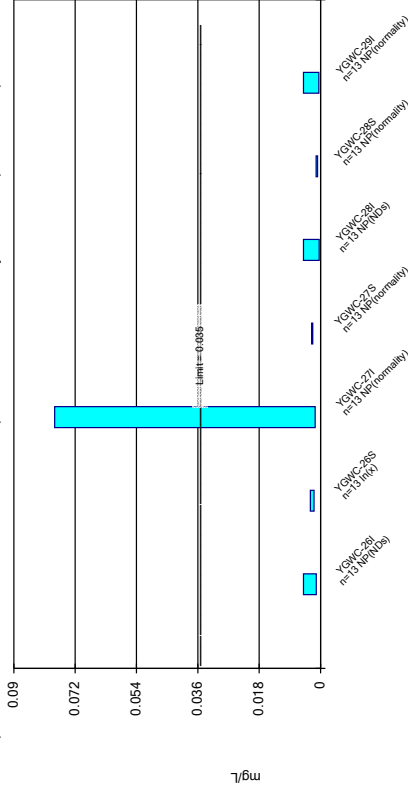
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2019 10:54 AM View: Maximum Values in B
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

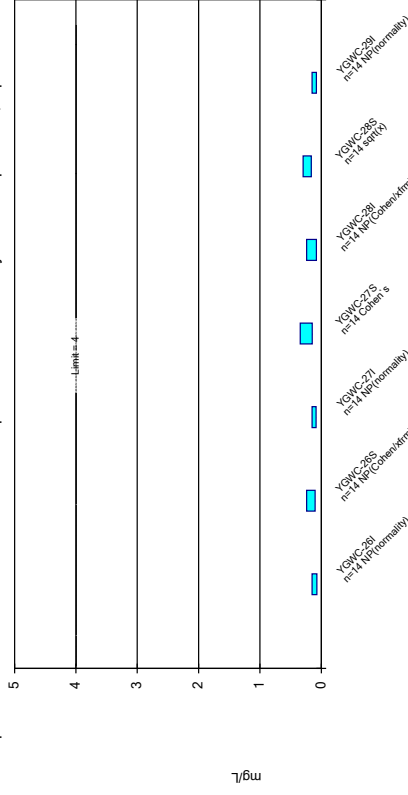
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/27/2019 10:54 AM View: Maximum Values in Background
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 6/27/2019 10:54 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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					<0.0025	<0.0025	<0.0025
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	
Mean	0.003868	0.002932	0.004659	0.005568	0.00425	0.00425	0.00425
Std. Dev.	0.001923	0.001644	0.001131	0.003324	0.001677	0.001677	0.001677
Upper Lim.	0.005	0.009221	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0008	0.00141	0.005	0.005	0.00125	0.00125	0.00125

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.01	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.01	0.0008 (J)	0.0006 (J)
9/20/2016	<0.01	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.01	0.0008 (J)	0.0007 (J)
11/7/2016	<0.01	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	0.0022 (J)	0.0017 (J)		<0.01	0.001 (J)	
1/19/2017				0.0024 (J)			<0.01
2/21/2017	<0.01	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.01		<0.01
2/23/2017			0.002 (J)				
5/3/2017		0.002 (J)					
5/5/2017					<0.01	0.0012 (J)	
5/8/2017	<0.01		0.0029 (J)	0.0023 (J)			<0.01
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.01		0.0003 (J)
7/7/2017						0.0012 (J)	
7/10/2017	<0.01	0.002 (J)					
3/29/2018			0.0495 (D)	<0.01			<0.01
3/30/2018	<0.01	<0.01			<0.01	<0.01	
6/11/2018							<0.01
6/12/2018				0.0025 (J)	<0.01	0.0011 (J)	
6/13/2018	<0.01	0.0017 (J)	0.092				
10/2/2018	<0.01	0.002 (J)	0.078	0.0023 (J)			<0.01
10/3/2018					<0.01	0.0013 (J)	
2/27/2019	<0.01	0.0017 (J)	0.035	0.0024 (J)	<0.01	0.00093 (J)	<0.01
4/1/2019			0.025	0.0023 (J)	<0.01		<0.01
4/2/2019	<0.01	0.0022 (J)				0.0011 (J)	
Mean	0.004712	0.002515	0.02285	0.0026	0.004648	0.001337	0.003625
Std. Dev.	0.00104	0.0008915	0.03176	0.0007314	0.00127	0.001112	0.002149
Upper Lim.	0.005	0.003003	0.078	0.0026	0.005	0.0013	0.005
Lower Lim.	0.00125	0.001921	0.0016	0.0023	0.00042	0.00085	0.00052

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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	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	<1.39	<1.33	3.44		<1.34	<1.44	
1/19/2017				<1.33			<1.5
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)	
Mean	1.162	0.7485	3.505	0.8066	0.5451	0.6385	0.9032
Std. Dev.	1.688	0.2493	1.116	0.3027	0.3013	0.3086	0.4057
Upper Lim.	1.387	0.9156	4.334	1.032	0.7691	0.8679	1.205
Lower Lim.	0.4078	0.5674	2.675	0.5815	0.3211	0.409	0.6015

Confidence Interval

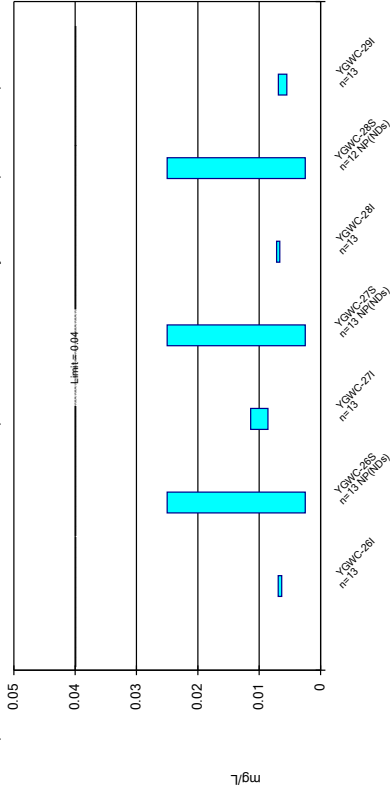
Constituent: Fluoride (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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)	<0.2	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)	
Mean	0.1159	0.1724	0.1307	0.1939	0.1483	0.2336	0.1189
Std. Dev.	0.03759	0.1086	0.03807	0.1101	0.07906	0.1016	0.03836
Upper Lim.	0.15	0.24	0.15	0.3429	0.24	0.2952	0.15
Lower Lim.	0.071	0.1	0.086	0.1487	0.08	0.1638	0.08

Parametric and Non-Parametric (NP) Confidence Interval

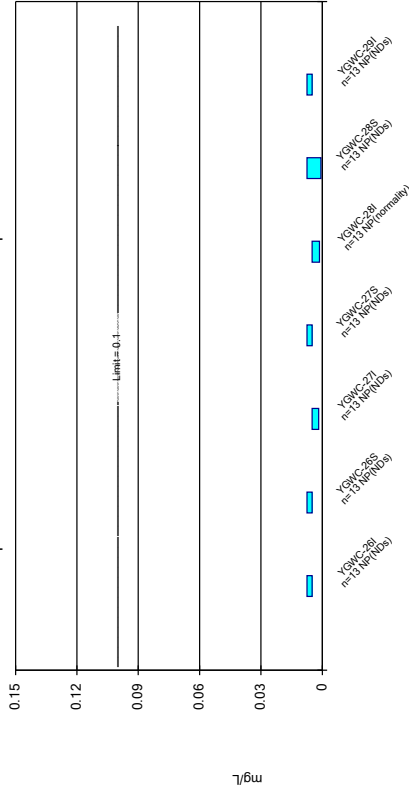
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/27/2019 10:54 AM View: Maximum Values in Background
 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 6/27/2019 10:54 AM View: Maximum Values in Background
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

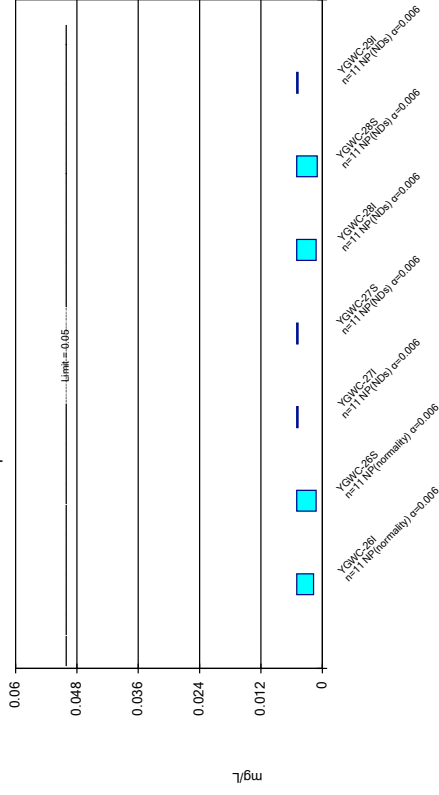
Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 6/27/2019 10:54 AM View: Maximum Values in Background
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 6/27/2019 10:54 AM View: Maximum Values in Background
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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	<0.005	0.0067	<0.005			
6/9/2016					0.0073	<0.005	0.0075
8/1/2016	0.0068 (J)	<0.05	0.008 (J)	<0.05			
8/2/2016					0.0073 (J)	<0.05	0.0078 (J)
9/20/2016	0.0062 (J)	<0.05	0.0111 (J)	<0.05			
9/21/2016					0.0067 (J)	<0.05	0.0074 (J)
11/7/2016	0.0057 (J)	<0.05	0.0097 (J)	<0.05		<0.05	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.05	0.01 (J)		0.0067 (J)	<0.05	
1/19/2017				<0.05			0.0055 (J)
2/21/2017	0.0067 (J)	<0.05				<0.05	
2/22/2017				<0.05	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (J)				
5/3/2017		<0.05					
5/5/2017					0.007 (J)	<0.05	
5/8/2017	0.007 (J)		0.0086 (J)	<0.05			0.0066 (J)
6/30/2017			0.0108 (J)	<0.05			
7/5/2017					0.0072 (J)		0.0058 (J)
7/7/2017						<0.05	
7/10/2017	0.0064 (J)	<0.05					
3/29/2018			0.011 (J)	<0.05			0.0049 (J)
3/30/2018	0.0068 (J)	<0.05			0.007 (J)	<0.05	
6/11/2018							0.0064 (J)
6/12/2018				<0.05	0.0073 (J)	<0.05	
6/13/2018	0.0071 (J)	<0.05	0.014 (J)				
10/2/2018	0.0064 (J)	<0.05	0.012 (J)	<0.05			0.006 (J)
10/3/2018					0.0069 (J)	<0.25 (o)	
2/27/2019	0.0069 (J)	<0.05	0.0096 (J)	<0.05	0.0063 (J)	<0.05	0.0053 (J)
4/1/2019			0.0082 (J)	<0.05	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)	<0.05				<0.05	
Mean	0.006615	0.02327	0.009969	0.02327	0.006908	0.02313	0.006185
Std. Dev.	0.0003913	0.00624	0.001897	0.00624	0.000357	0.006495	0.0009281
Upper Lim.	0.006906	0.025	0.01138	0.025	0.007173	0.025	0.006875
Lower Lim.	0.006324	0.0025	0.008559	0.0025	0.006642	0.0025	0.005494

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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	<0.0002	<0.0002	<0.0002	<0.0002			
6/9/2016					<0.0002 (*)	<0.0002 (*)	<0.0002 (*)
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					<0.0005	<0.0005	<0.0005
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
11/8/2016					<0.0005		
1/18/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	
1/19/2017				<0.0005			<0.0005
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	<0.0005		<0.0005
2/23/2017			<0.0005				
5/3/2017		<0.0005					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			<0.0005
6/30/2017			<0.0005 (*)	<0.0005 (*)			
7/5/2017					<0.0005		<0.0005
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0005		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0005	
Mean	0.0002002	0.0002014	0.0001999	0.0001991	0.000218	0.0002184	0.0001987
Std. Dev.	8.626E-05	8.411E-05	8.68E-05	8.836E-05	7.214E-05	7.12E-05	8.906E-05
Upper Lim.	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025	0.00025
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	4.9E-05	0.0001	0.0001	4.7E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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	<0.015	<0.015	0.0011 (J)	<0.015			
6/9/2016					0.0011 (J)	<0.015	<0.015
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	
Mean	0.005192	0.005192	0.004154	0.005192	0.003869	0.004523	0.005192
Std. Dev.	0.0006934	0.0006934	0.001616	0.0006934	0.001767	0.001852	0.0006934
Upper Lim.	0.0075	0.0075	0.005	0.0075	0.005	0.0075	0.0075
Lower Lim.	0.005	0.005	0.0018	0.005	0.0014	0.0007	0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/27/2019 11:00 AM View: Maximum Values in Background

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)	<0.0013	<0.0013			
6/9/2016					<0.0013	<0.0013	<0.0013
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	
Mean	0.002482	0.003573	0.004605	0.004605	0.004259	0.004241	0.004605
Std. Dev.	0.001263	0.002001	0.001312	0.001312	0.001653	0.001691	0.001312
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0017	0.0012	0.005	0.005	0.0012	0.001	0.005

Confidence Interval

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 6/27/2019, 11:02 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Arsenic (mg/L)	YGWC-26I	0.0025	0.00065	0.01	No	8	100	No	0.004	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.0025	0.00065	0.01	No	8	100	No	0.004	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.0025	0.0006	0.01	No	8	62.5	No	0.004	NP (normality)
Arsenic (mg/L)	YGWC-27S	0.0025	0.00065	0.01	No	8	100	No	0.004	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.0025	0.00065	0.01	No	8	100	No	0.004	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.0025	0.0007	0.01	No	8	75	No	0.004	NP (normality)
Arsenic (mg/L)	YGWC-29I	0.0025	0.00065	0.01	No	8	100	No	0.004	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06954	0.06423	2	No	8	0	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.03028	0.02744	2	No	8	0	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0795	0.06385	2	No	8	0	No	0.01	Param.
Barium (mg/L)	YGWC-27S	0.1146	0.09819	2	No	8	0	No	0.01	Param.
Barium (mg/L)	YGWC-28I	0.09451	0.08401	2	No	8	0	No	0.01	Param.
Barium (mg/L)	YGWC-28S	0.2241	0.2091	2	No	8	0	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.07937	0.0688	2	No	8	0	No	0.01	Param.
Beryllium (mg/L)	YGWC-26I	0.0015	0.00125	0.004	No	8	100	No	0.004	NP (NDs)
Beryllium (mg/L)	YGWC-26S	0.00125	0.0001	0.004	No	8	12.5	No	0.004	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.0015	0.00009	0.004	No	8	25	No	0.004	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.0015	0.00125	0.004	No	8	100	No	0.004	NP (NDs)
Beryllium (mg/L)	YGWC-28I	0.0015	0.00125	0.004	No	8	100	No	0.004	NP (NDs)
Beryllium (mg/L)	YGWC-28S	0.0015	0.00125	0.004	No	8	100	No	0.004	NP (NDs)
Beryllium (mg/L)	YGWC-29I	0.0015	0.00125	0.004	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-26I	0.00125	0.0005	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-26S	0.00125	0.0005	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-27I	0.00125	0.0005	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-27S	0.00125	0.0005	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.00055	0.00009	0.005	No	8	0	No	0.004	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.00125	0.0005	0.005	No	8	100	No	0.004	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.00125	0.0005	0.005	No	8	100	No	0.004	NP (NDs)
Chromium (mg/L)	YGWC-26I	0.005	0.0006	0.1	No	8	75	No	0.004	NP (normality)
Chromium (mg/L)	YGWC-26S	0.009515	-0.0002384	0.1	No	8	25	No	0.01	Param.
Chromium (mg/L)	YGWC-27I	0.005	0.00125	0.1	No	8	100	No	0.004	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.005	0.00125	0.1	No	8	100	No	0.004	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.005	0.0005	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.005	0.0005	0.1	No	8	87.5	No	0.004	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.005	0.0005	0.1	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	YGWC-26I	0.005	0.00125	0.035	No	8	100	No	0.004	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.00303	0.001995	0.035	No	8	0	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.003064	0.001371	0.035	No	8	0	In(x)	0.01	Param.
Cobalt (mg/L)	YGWC-27S	0.002567	0.002258	0.035	No	8	0	No	0.01	Param.
Cobalt (mg/L)	YGWC-28I	0.005	0.00042	0.035	No	8	87.5	No	0.004	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.001169	0.0008181	0.035	No	8	0	No	0.01	Param.
Cobalt (mg/L)	YGWC-29I	0.005	0.0003	0.035	No	8	50	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	6.68	0.291	5	No	8	12.5	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	1.11	0.457	5	No	8	12.5	No	0.004	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.223	2.345	5	No	8	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.152	0.3886	5	No	8	12.5	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.6203	0.2037	5	No	8	12.5	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	1.014	0.3126	5	No	8	12.5	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.355	0.4385	5	No	8	12.5	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.15	0.05	4	No	9	44.44	No	0.002	NP (normality)

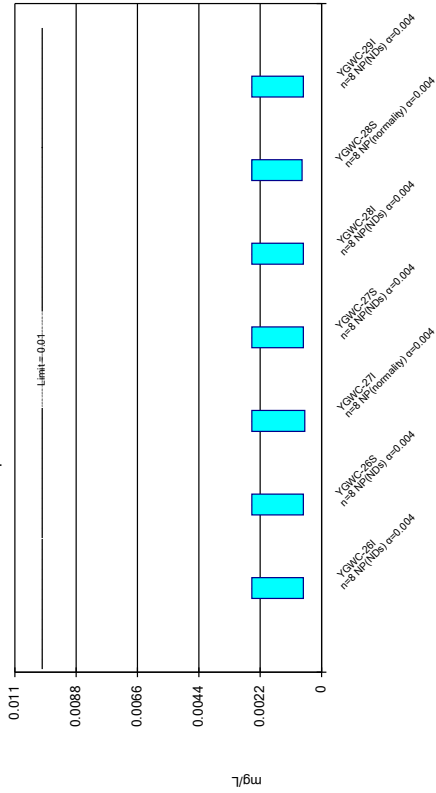
Confidence Interval

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 6/27/2019, 11:02 AM

Constituent	Well	Upper Lim.	Lower Lim.	Compliance	Sig.	N	%NDs	Transform	Alpha	Method
Fluoride (mg/L)	YGWC-26S	0.44	0.03	4	No	9	55.56	No	0.002	NP (Cohens/xfrm)
Fluoride (mg/L)	YGWC-27I	0.15	0.07	4	No	9	66.67	No	0.002	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.3205	0.1691	4	No	9	22.22	No	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.38	0.08	4	No	9	22.22	No	0.002	NP (Cohens/xfrm)
Fluoride (mg/L)	YGWC-28S	0.3637	0.1518	4	No	9	11.11	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.15	0.06	4	No	9	44.44	No	0.002	NP (normality)
Lithium (mg/L)	YGWC-26I	0.007017	0.006083	0.025	No	8	0	No	0.01	Param.
Lithium (mg/L)	YGWC-26S	0.025	0.0025	0.025	No	8	100	No	0.004	NP (NDs)
Lithium (mg/L)	YGWC-27I	0.01092	0.007777	0.025	No	8	0	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.025	0.0025	0.025	No	8	100	No	0.004	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007332	0.006618	0.025	No	8	0	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.025	0.0025	0.025	No	8	100	No	0.004	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.007526	0.005624	0.025	No	8	0	No	0.01	Param.
Mercury (mg/L)	YGWC-26I	0.00025	0.0001	0.002	No	8	100	No	0.004	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.00025	0.0001	0.002	No	8	100	No	0.004	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.00025	0.0001	0.002	No	8	100	No	0.004	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.00025	0.0001	0.002	No	8	100	No	0.004	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.00025	0.0001	0.002	No	8	100	No	0.004	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.00025	0.0001	0.002	No	8	100	No	0.004	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.00025	0.0001	0.002	No	8	100	No	0.004	NP (NDs)
Molybdenum (mg/L)	YGWC-26I	0.0075	0.005	0.014	No	8	100	No	0.004	NP (NDs)
Molybdenum (mg/L)	YGWC-26S	0.0075	0.005	0.014	No	8	100	No	0.004	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.005	0.0011	0.014	No	8	62.5	No	0.004	NP (normality)
Molybdenum (mg/L)	YGWC-27S	0.0075	0.005	0.014	No	8	100	No	0.004	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.005	0.0011	0.014	No	8	50	No	0.004	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.0075	0.0006	0.014	No	8	75	No	0.004	NP (normality)
Molybdenum (mg/L)	YGWC-29I	0.0075	0.005	0.014	No	8	100	No	0.004	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.005	0.0016	0.05	No	8	12.5	No	0.004	NP (normality)
Selenium (mg/L)	YGWC-26S	0.005	0.0003	0.05	No	8	50	No	0.004	NP (normality)
Selenium (mg/L)	YGWC-27I	0.005	0.00065	0.05	No	8	100	No	0.004	NP (NDs)
Selenium (mg/L)	YGWC-27S	0.005	0.00065	0.05	No	8	100	No	0.004	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.005	0.00065	0.05	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.005	0.00065	0.05	No	8	87.5	No	0.004	NP (NDs)
Selenium (mg/L)	YGWC-29I	0.005	0.00065	0.05	No	8	100	No	0.004	NP (NDs)

Non-Parametric Confidence Interval

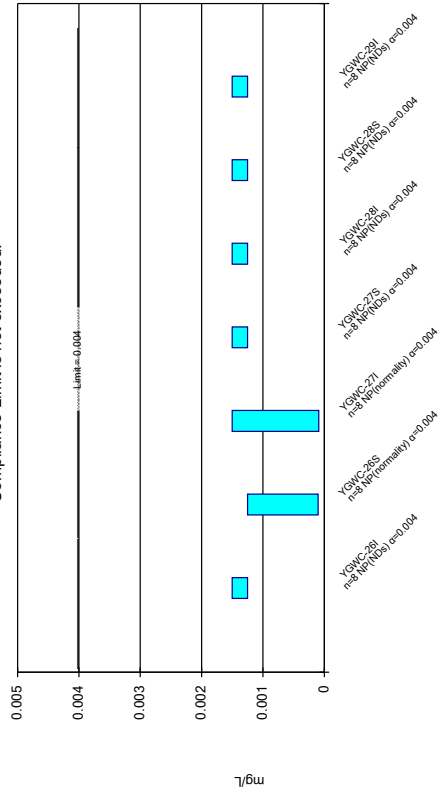
Compliance Limit is not exceeded.



Constituent: Arsenic Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

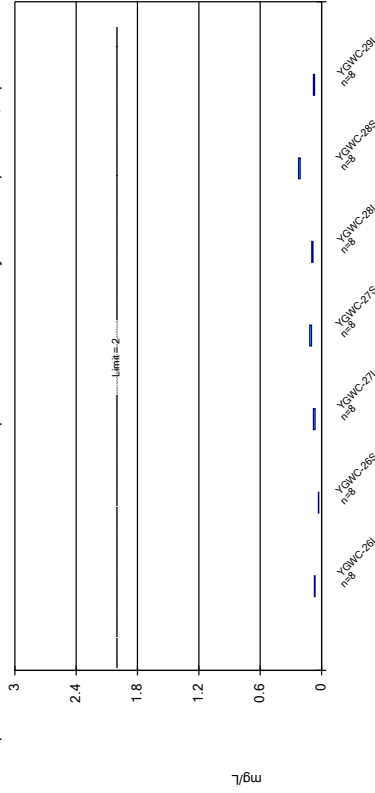
Compliance Limit is not exceeded.



Constituent: Beryllium Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

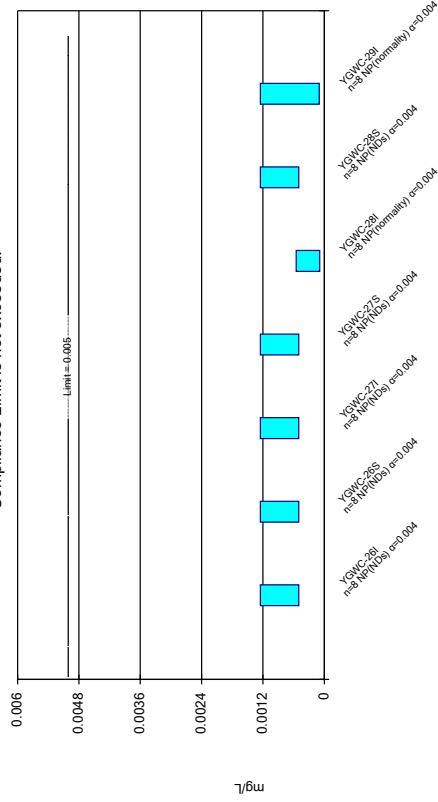
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Cadmium Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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	<0.0013	<0.0013	0.0011 (J)	<0.0013			
6/9/2016					<0.0013	0.00094 (J)	<0.0013
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					
Mean	0.002269	0.002269	0.001887	0.002269	0.002269	0.00208	0.002269
Std. Dev.	0.0006541	0.0006541	0.000856	0.0006541	0.0006541	0.0007803	0.0006541
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.00065	0.00065	0.0006	0.00065	0.00065	0.0007	0.00065

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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					
Mean	0.06689	0.02886	0.07168	0.1064	0.08926	0.2166	0.07409
Std. Dev.	0.002506	0.001338	0.007387	0.007762	0.004953	0.00709	0.004988
Upper Lim.	0.06954	0.03028	0.0795	0.1146	0.09451	0.2241	0.07937
Lower Lim.	0.06423	0.02744	0.06385	0.09819	0.08401	0.2091	0.0688

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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					<0.0025	<0.0025	<0.0025
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)					
Mean	0.001469	0.0003062	0.0004675	0.001469	0.001469	0.001469	0.001469
Std. Dev.	8.839E-05	0.000384	0.000566	8.839E-05	8.839E-05	8.839E-05	8.839E-05
Upper Lim.	0.0015	0.00125	0.0015	0.0015	0.0015	0.0015	0.0015
Lower Lim.	0.00125	0.0001	9E-05	0.00125	0.00125	0.00125	0.00125

Confidence Interval

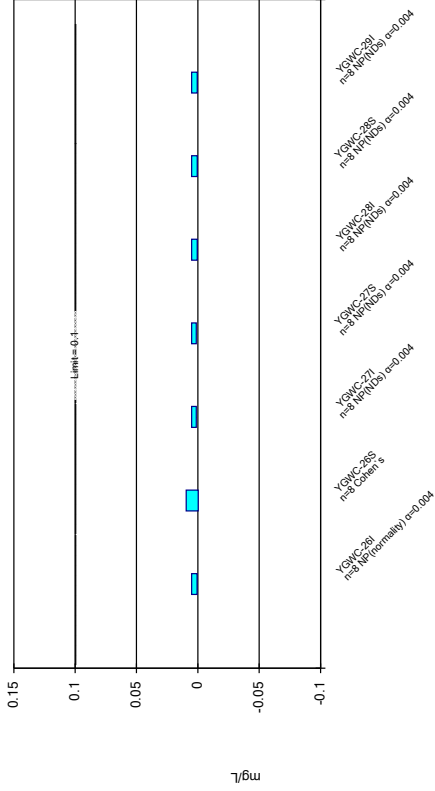
Constituent: Cadmium (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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	<0.001	<0.001	<0.001	<0.001			
8/2/2016					0.0001 (J)	<0.001	0.0001 (J)
9/20/2016	<0.001	<0.001	<0.001	<0.001			
9/21/2016					0.0001 (J)	<0.001	0.0002 (J)
11/7/2016	<0.001	<0.001	<0.001	<0.001		<0.001	0.0002 (J)
11/8/2016					9E-05 (J)		
1/18/2017	<0.001	<0.001	<0.001		9E-05 (J)	<0.001	
1/19/2017				<0.001			0.0001 (J)
2/21/2017	<0.001	<0.001				<0.001	
2/22/2017				<0.001	0.0001 (J)		0.0001 (J)
2/23/2017			<0.001				
5/3/2017		<0.001					
5/5/2017					9E-05 (J)	<0.001	
5/8/2017	<0.001		<0.001	<0.001			0.0002 (J)
6/30/2017			<0.001	<0.001			
7/5/2017					0.0002 (J)		0.0002 (J)
7/7/2017						<0.001	
7/10/2017	<0.001	<0.001					
Mean	0.0005938	0.0005938	0.0005938	0.0005938	0.000165	0.0005938	0.0002937
Std. Dev.	0.0002652	0.0002652	0.0002652	0.0002652	0.0001599	0.0002652	0.0003895
Upper Lim.	0.00125	0.00125	0.00125	0.00125	0.00055	0.00125	0.00125
Lower Lim.	0.0005	0.0005	0.0005	0.0005	9E-05	0.0005	0.0001

Parametric and Non-Parametric (NP) Confidence Interval

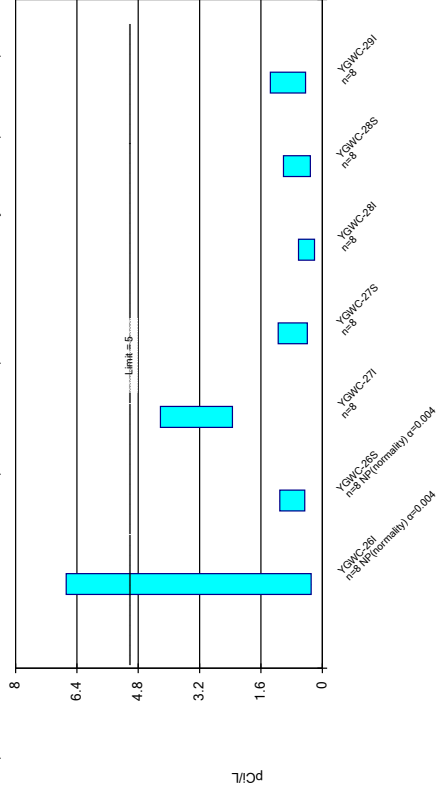
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Chromium Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

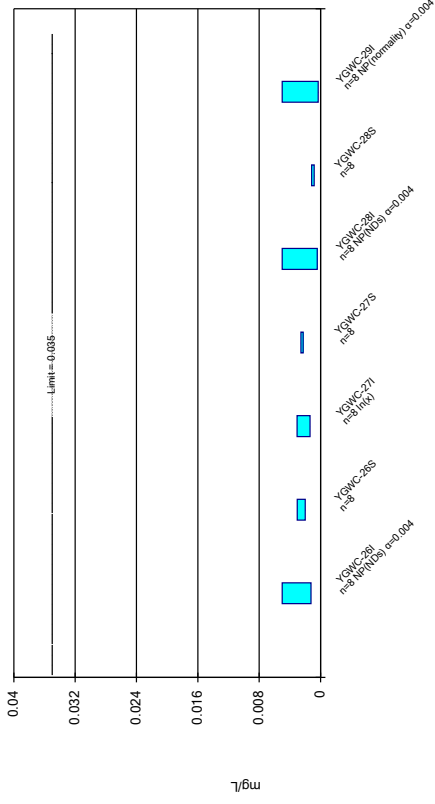
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 6/27/2019 11:01 AM View: Maximum Values in B
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

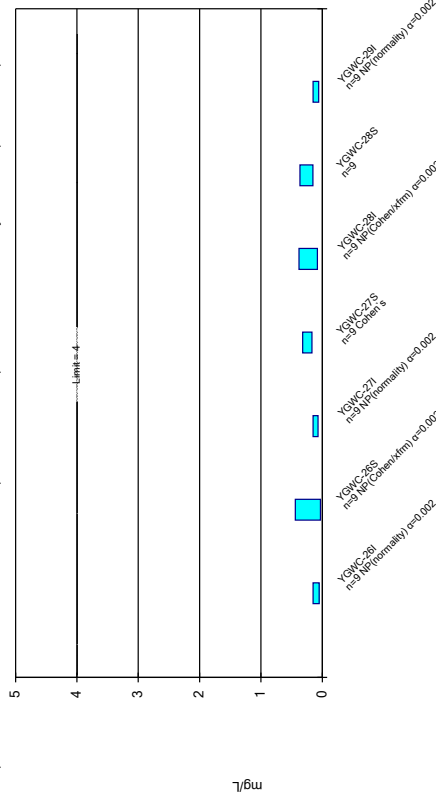
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
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 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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					<0.0025	<0.0025	<0.0025
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 (*)					
Mean	0.003456	0.002344	0.004531	0.004531	0.003969	0.003969	0.003969
Std. Dev.	0.002138	0.001382	0.001326	0.001326	0.00192	0.00192	0.00192
Upper Lim.	0.005	0.009515	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0006	-0.0002384	0.00125	0.00125	0.0005	0.0005	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.01	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.01	0.0008 (J)	0.0006 (J)
9/20/2016	<0.01	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.01	0.0008 (J)	0.0007 (J)
11/7/2016	<0.01	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.01
11/8/2016					<0.01		
1/18/2017	<0.01	0.0022 (J)	0.0017 (J)		<0.01	0.001 (J)	
1/19/2017				0.0024 (J)			<0.01
2/21/2017	<0.01	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.01		<0.01
2/23/2017			0.002 (J)				
5/3/2017		0.002 (J)					
5/5/2017					<0.01	0.0012 (J)	
5/8/2017	<0.01		0.0029 (J)	0.0023 (J)			<0.01
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.01		0.0003 (J)
7/7/2017						0.0012 (J)	
7/10/2017	<0.01	0.002 (J)					
Mean	0.004531	0.002513	0.0022	0.002413	0.004427	0.0009938	0.002765
Std. Dev.	0.001326	0.0004883	0.001001	0.0001458	0.001619	0.0001657	0.002392
Upper Lim.	0.005	0.00303	0.003064	0.002567	0.005	0.001169	0.005
Lower Lim.	0.00125	0.001995	0.001371	0.002258	0.00042	0.0008181	0.0003

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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	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	<1.39	<1.33	3.44		<1.34	<1.44	
1/19/2017				<1.33			<1.5
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)					
Mean	1.448	0.6768	3.284	0.7704	0.412	0.6635	0.8966
Std. Dev.	2.127	0.1902	0.8858	0.3602	0.1965	0.331	0.4322
Upper Lim.	6.68	1.11	4.223	1.152	0.6203	1.014	1.355
Lower Lim.	0.291	0.457	2.345	0.3886	0.2037	0.3126	0.4385

Confidence Interval

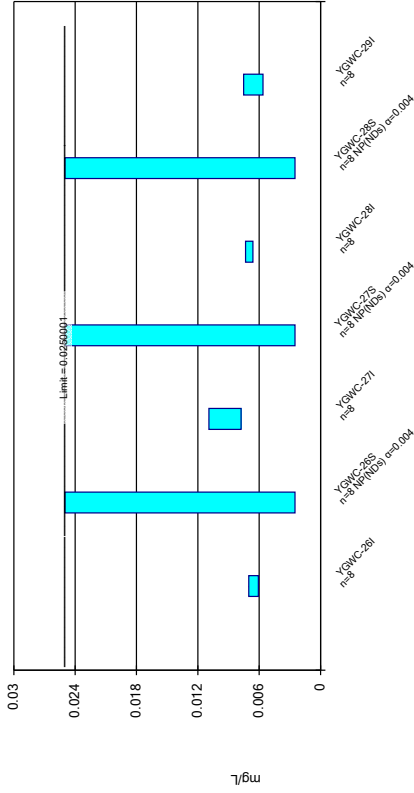
Constituent: Fluoride (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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)	<0.2	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					
Mean	0.1127	0.1744	0.1329	0.2011	0.1564	0.2578	0.1117
Std. Dev.	0.03872	0.1139	0.03155	0.06009	0.09723	0.1097	0.03742
Upper Lim.	0.15	0.44	0.15	0.3205	0.38	0.3637	0.15
Lower Lim.	0.05	0.03	0.07	0.1691	0.08	0.1518	0.06

Parametric and Non-Parametric (NP) Confidence Interval

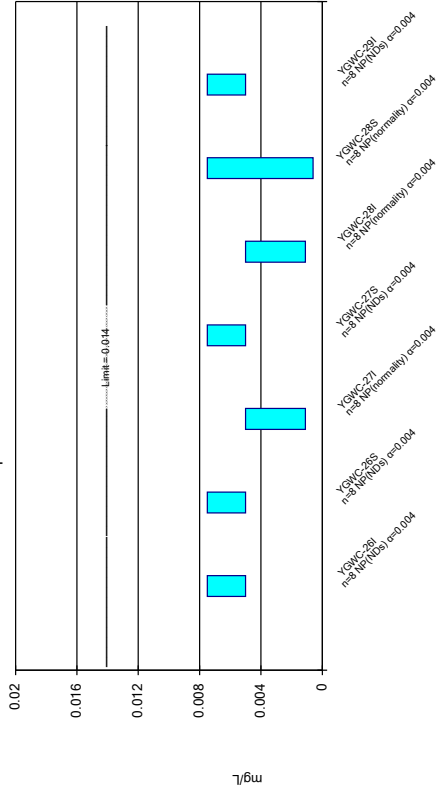
Compliance Limit is not exceeded. Per-well alpha = 0.01 except as noted. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

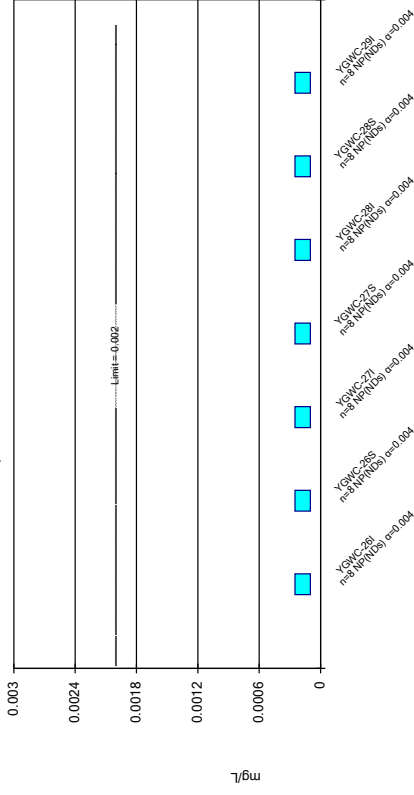
Compliance Limit is not exceeded.



Constituent: Molybdenum Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Mercury Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

Compliance Limit is not exceeded.



Constituent: Selenium Analysis Run 6/27/2019 11:01 AM View: Maximum Values in Background
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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	<0.005	0.0067	<0.005			
6/9/2016					0.0073	<0.005	0.0075
8/1/2016	0.0068 (J)	<0.05	0.008 (J)	<0.05			
8/2/2016					0.0073 (J)	<0.05	0.0078 (J)
9/20/2016	0.0062 (J)	<0.05	0.0111 (J)	<0.05			
9/21/2016					0.0067 (J)	<0.05	0.0074 (J)
11/7/2016	0.0057 (J)	<0.05	0.0097 (J)	<0.05		<0.05	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.05	0.01 (J)		0.0067 (J)	<0.05	
1/19/2017				<0.05			0.0055 (J)
2/21/2017	0.0067 (J)	<0.05				<0.05	
2/22/2017				<0.05	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (J)				
5/3/2017		<0.05					
5/5/2017					0.007 (J)	<0.05	
5/8/2017	0.007 (J)		0.0086 (J)	<0.05			0.0066 (J)
6/30/2017			0.0108 (J)	<0.05			
7/5/2017					0.0072 (J)		0.0058 (J)
7/7/2017						<0.05	
7/10/2017	0.0064 (J)	<0.05					
Mean	0.00655	0.02219	0.00935	0.02219	0.006975	0.02219	0.006575
Std. Dev.	0.0004408	0.007955	0.001484	0.007955	0.000337	0.007955	0.0008972
Upper Lim.	0.007017	0.025	0.01092	0.025	0.007332	0.025	0.007526
Lower Lim.	0.006083	0.0025	0.007777	0.0025	0.006618	0.0025	0.005624

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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	<0.015	<0.015	0.0011 (J)	<0.015			
6/9/2016					0.0011 (J)	<0.015	<0.015
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					
Mean	0.005312	0.005312	0.003625	0.005312	0.003162	0.004225	0.005312
Std. Dev.	0.0008839	0.0008839	0.00191	0.0008839	0.001967	0.002369	0.0008839
Upper Lim.	0.0075	0.0075	0.005	0.0075	0.005	0.0075	0.0075
Lower Lim.	0.005	0.005	0.0011	0.005	0.0011	0.0006	0.005

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 6/27/2019 11:02 AM View: Maximum Values in Background

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)	<0.0013	<0.0013			
6/9/2016					<0.0013	<0.0013	<0.0013
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					
Mean	0.002325	0.003037	0.004456	0.004456	0.003981	0.003956	0.004456
Std. Dev.	0.001107	0.002126	0.001538	0.001538	0.001892	0.001935	0.001538
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.0016	0.0003	0.00065	0.00065	0.00065	0.00065	0.00065

100% ND

Date: 11/15/2019 11:55 AM

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Arsenic (mg/L)

YGWA-14S, YGWA-1I, YGWA-30I, 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

Boron (mg/L)

YGWA-3I

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

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

Interwell Prediction Limit Significant Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/20/2019, 10:45 AM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Date</u>	<u>Observ.</u>	<u>Sig.</u>	<u>Bg N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Boron (mg/L)	YGWC-26I	0.2	n/a	9/25/2019	0.86	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-26S	0.2	n/a	9/25/2019	0.63	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27I	0.2	n/a	9/26/2019	1.9	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27S	0.2	n/a	9/26/2019	1.5	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28I	0.2	n/a	9/26/2019	2.8	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28S	0.2	n/a	9/26/2019	2.5	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-29I	0.2	n/a	9/25/2019	0.73	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-27S	30.7	n/a	9/26/2019	37.5	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	30.7	n/a	9/26/2019	32	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	4.9	n/a	9/25/2019	17.1	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	4.9	n/a	9/25/2019	14.4	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	4.9	n/a	9/26/2019	14.3	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	4.9	n/a	9/26/2019	19.6	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	4.9	n/a	9/26/2019	17.3	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	4.9	n/a	9/26/2019	19.5	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	4.9	n/a	9/25/2019	11.3	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	12.13	n/a	9/25/2019	80.1	Yes	91	2.198	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-26S	12.13	n/a	9/25/2019	97	Yes	91	2.198	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-27S	12.13	n/a	9/26/2019	18.2	Yes	91	2.198	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-29I	12.13	n/a	9/25/2019	30	Yes	91	2.198	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	223	n/a	9/25/2019	225	Yes	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	223	n/a	9/26/2019	225	Yes	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	223	n/a	9/26/2019	241	Yes	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	223	n/a	9/26/2019	239	Yes	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2

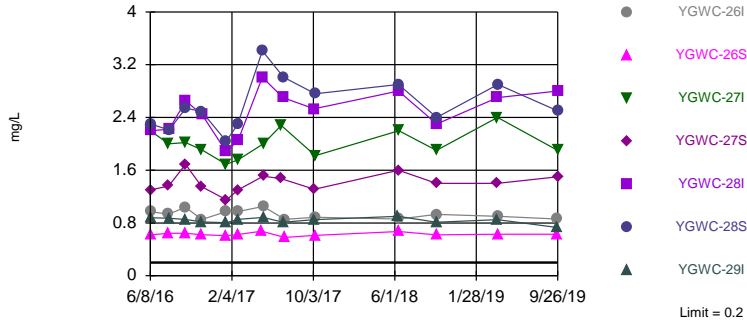
Interwell Prediction Limit All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/20/2019, 10:45 AM

Constituent	Well	Upper Lim.	Lower Lim.	Date	Observ.	Sig.	Bg N	%NDs	Transform	Alpha	Method
Boron (mg/L)	YGWC-26I	0.2	n/a	9/25/2019	0.86	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-26S	0.2	n/a	9/25/2019	0.63	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27I	0.2	n/a	9/26/2019	1.9	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-27S	0.2	n/a	9/26/2019	1.5	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28I	0.2	n/a	9/26/2019	2.8	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-28S	0.2	n/a	9/26/2019	2.5	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Boron (mg/L)	YGWC-29I	0.2	n/a	9/25/2019	0.73	Yes	91	61.54	n/a	0.0002327	NP Inter (NDs) 1 of 2
Calcium (mg/L)	YGWC-26I	30.7	n/a	9/25/2019	15.6	No	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-26S	30.7	n/a	9/25/2019	11.6	No	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27I	30.7	n/a	9/26/2019	24.2	No	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-27S	30.7	n/a	9/26/2019	37.5	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28I	30.7	n/a	9/26/2019	32	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-28S	30.7	n/a	9/26/2019	26.1	No	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Calcium (mg/L)	YGWC-29I	30.7	n/a	9/25/2019	10.7	No	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26I	4.9	n/a	9/25/2019	17.1	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-26S	4.9	n/a	9/25/2019	14.4	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27I	4.9	n/a	9/26/2019	14.3	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-27S	4.9	n/a	9/26/2019	19.6	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28I	4.9	n/a	9/26/2019	17.3	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-28S	4.9	n/a	9/26/2019	19.5	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Chloride (mg/L)	YGWC-29I	4.9	n/a	9/25/2019	11.3	Yes	91	0	n/a	0.0002327	NP Inter (normality) 1 of 2
Fluoride (mg/L)	YGWC-26I	0.68	n/a	9/25/2019	0.064	No	105	54.29	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-26S	0.68	n/a	9/25/2019	0.3ND	No	105	54.29	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27I	0.68	n/a	9/26/2019	0.14	No	105	54.29	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-27S	0.68	n/a	9/26/2019	0.22	No	105	54.29	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28I	0.68	n/a	9/26/2019	0.29	No	105	54.29	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-28S	0.68	n/a	9/26/2019	0.28	No	105	54.29	n/a	0.0001784	NP Inter (NDs) 1 of 2
Fluoride (mg/L)	YGWC-29I	0.68	n/a	9/25/2019	0.054	No	105	54.29	n/a	0.0001784	NP Inter (NDs) 1 of 2
pH (S.U.)	YGWC-26I	7.91	5.19	9/25/2019	5.79	No	104	0	n/a	0.0003626	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-26S	7.91	5.19	9/25/2019	5.24	No	104	0	n/a	0.0003626	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27I	7.91	5.19	9/26/2019	6.3	No	104	0	n/a	0.0003626	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-27S	7.91	5.19	9/26/2019	6.22	No	104	0	n/a	0.0003626	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28I	7.91	5.19	9/26/2019	6.43	No	104	0	n/a	0.0003626	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-28S	7.91	5.19	9/26/2019	6.47	No	104	0	n/a	0.0003626	NP Inter (normality) 1 of 2
pH (S.U.)	YGWC-29I	7.91	5.19	9/25/2019	6.21	No	104	0	n/a	0.0003626	NP Inter (normality) 1 of 2
Sulfate (mg/L)	YGWC-26I	12.13	n/a	9/25/2019	80.1	Yes	91	2.198	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-26S	12.13	n/a	9/25/2019	97	Yes	91	2.198	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-27I	12.13	n/a	9/26/2019	4.2	No	91	2.198	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-27S	12.13	n/a	9/26/2019	18.2	Yes	91	2.198	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-28I	12.13	n/a	9/26/2019	7.9	No	91	2.198	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-28S	12.13	n/a	9/26/2019	1.6	No	91	2.198	No	0.001075	Param Inter 1 of 2
Sulfate (mg/L)	YGWC-29I	12.13	n/a	9/25/2019	30	Yes	91	2.198	No	0.001075	Param Inter 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26I	223	n/a	9/25/2019	225	Yes	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-26S	223	n/a	9/25/2019	190	No	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27I	223	n/a	9/26/2019	198	No	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-27S	223	n/a	9/26/2019	225	Yes	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28I	223	n/a	9/26/2019	241	Yes	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-28S	223	n/a	9/26/2019	239	Yes	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2
Total Dissolved Solids (mg/L)	YGWC-29I	223	n/a	9/25/2019	162	No	90	2.222	n/a	0.0002371	NP Inter (normality) 1 of 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC

Prediction Limit
Interwell Non-parametric

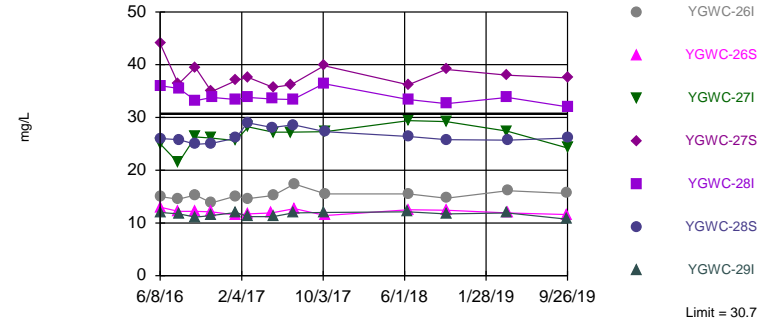


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 91 background values. 61.54% NDs. Annual per-constituent alpha = 0.003253. Individual comparison alpha = 0.0002327 (1 of 2). Comparing 7 points to limit.

Constituent: Boron Analysis Run 11/20/2019 10:43 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-27S, YGWC-28I

Prediction Limit
Interwell Non-parametric

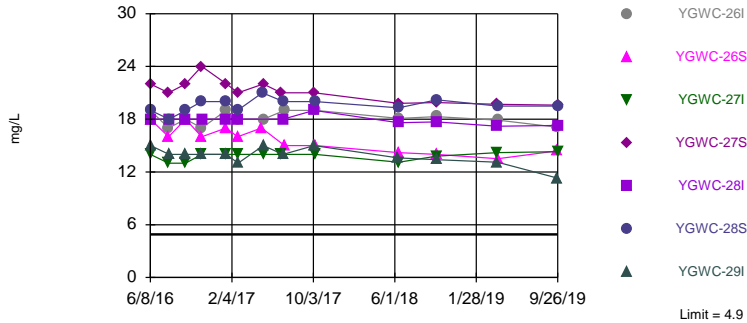


Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. Annual per-constituent alpha = 0.003253. Individual comparison alpha = 0.0002327 (1 of 2). Comparing 7 points to limit.

Constituent: Calcium Analysis Run 11/20/2019 10:43 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27I, YGWC-27S, YGWC-28I, YGWC

Prediction Limit
Interwell Non-parametric



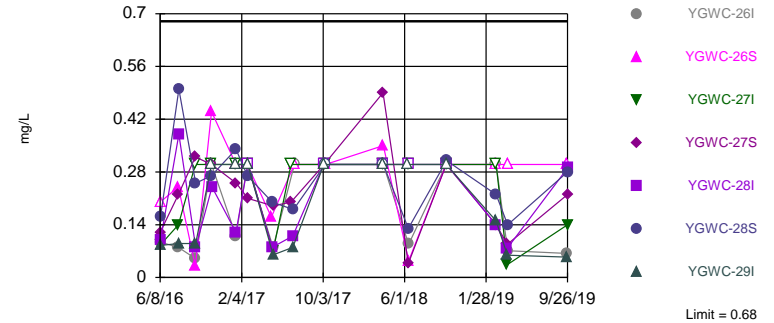
Non-parametric test used in lieu of parametric prediction limit because the Shapiro Francia normality test showed the data to be non-normal at the 0.01 alpha level. Limit is highest of 91 background values. Annual per-constituent alpha = 0.003253. Individual comparison alpha = 0.0002327 (1 of 2). Comparing 7 points to limit.

Constituent: Chloride Analysis Run 11/20/2019 10:43 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Within Limit

Prediction Limit
Interwell Non-parametric

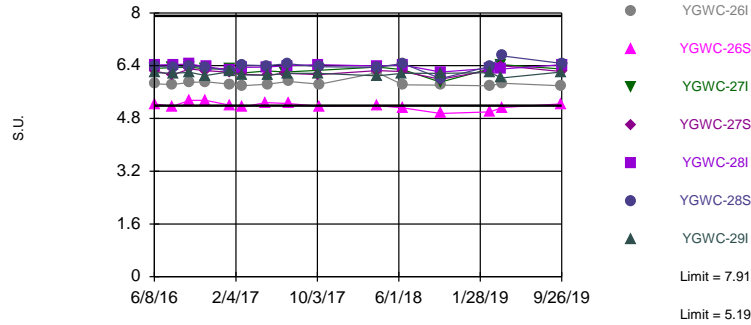


Non-parametric test used in lieu of parametric prediction limit because censored data exceeded 50%. Limit is highest of 105 background values. 54.29% NDs. Annual per-constituent alpha = 0.002495. Individual comparison alpha = 0.0001784 (1 of 2). Comparing 7 points to limit.

Constituent: Fluoride Analysis Run 11/20/2019 10:43 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Within Limits

Prediction Limit
Interwell Non-parametric



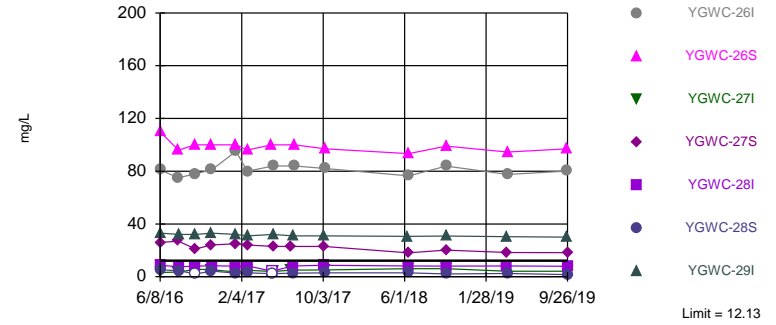
Non-parametric test used in lieu of parametric prediction limit because the Chi Squared normality test showed the data to be non-normal at the 0.01 alpha level. Limits are highest and lowest of 104 background values. Annual per-constituent alpha = 0.005071. Individual comparison alpha = 0.0003626 (1 of 2). Comparing 7 points to limit.

Constituent: pH Analysis Run 11/20/2019 10:43 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-26I, YGWC-26S, YGWC-27S, YGWC-29I

Prediction Limit
Interwell Parametric



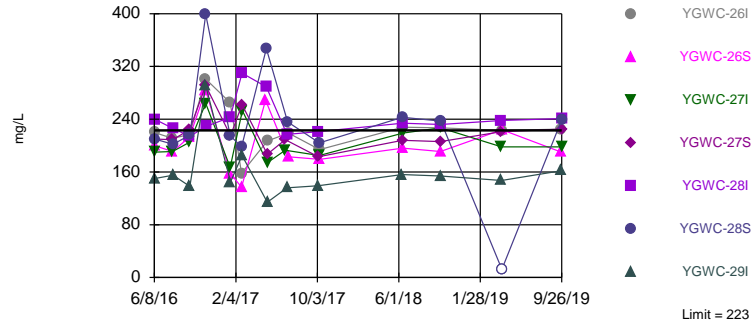
Background Data Summary: Mean=6.256, Std. Dev.=3.115, n=91, 2.198% NDs. Normality test: Shapiro Francia @alpha = 0.01, calculated = 0.9777, critical = 0.962. Kappa = 1.885 (c=7, w=7, 1 of 2, event alpha = 0.05132). Report alpha = 0.007498. Individual comparison alpha = 0.001075. Comparing 7 points to limit.

Constituent: Sulfate Analysis Run 11/20/2019 10:43 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Hollow symbols indicate censored values.

Exceeds Limit: YGWC-26I, YGWC-27S, YGWC-28I, YGWC-28S

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 90 background values. 2.222% NDs. Annual per-constituent alpha = 0.003314. Individual comparison alpha = 0.0002371 (1 of 2). Comparing 7 points to limit.

Constituent: Total Dissolved Solids Analysis Run 11/20/2019 10:43 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL

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-26I	YGWC-27S	YGWC-27I
6/1/2016	<0.05	<0.05	<0.05						
6/2/2016				<0.05	<0.05	<0.05			
6/8/2016							0.97	1.3	2.2
6/9/2016									
7/25/2016	<0.1	<0.1		<0.1					
7/26/2016			0.0055 (J)		0.0097 (J)	0.0177 (J)			
8/1/2016							0.932	1.36	2
8/2/2016									
9/13/2016	<0.1		<0.1						
9/14/2016		<0.1							
9/15/2016					0.0102 (J)	0.0214 (J)			
9/19/2016				<0.1					
9/20/2016							1.04	1.69	2.02
9/21/2016									
11/1/2016		<0.1	0.0086 (J)	<0.1	<0.1				
11/2/2016						<0.1 (*)			
11/4/2016	<0.1								
11/7/2016							0.852	1.35	1.91
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							0.972		1.69
1/19/2017								1.15	
2/21/2017				<0.04			0.972		
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									
5/5/2017									
5/8/2017							1.05	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							0.855		
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							0.887		
6/5/2018			0.0052 (J)						

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	0.62				
6/9/2016		2.2	0.88	2.3	
7/25/2016					
7/26/2016					
8/1/2016	0.643				
8/2/2016		2.22	0.872	2.21	
9/13/2016					
9/14/2016					<0.1
9/15/2016					
9/19/2016					
9/20/2016	0.644				
9/21/2016		2.65	0.853	2.54	
11/1/2016					
11/2/2016					
11/4/2016					<0.1
11/7/2016	0.621		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	0.607	1.88		2.04	
1/19/2017			0.803		
2/21/2017	0.624			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	0.676				
5/5/2017		3.01		3.41	
5/8/2017			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	0.58				
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	0.612				
6/5/2018					

Prediction Limit

Constituent: Boron (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	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	0.67				
10/1/2018					<0.2
10/2/2018	0.62		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	0.63			2.9	
9/24/2019					0.0076 (J)
9/25/2019	0.63		0.73		
9/26/2019		2.8		2.5	

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL

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-26I	YGWC-27S	YGWC-27I
6/1/2016	2.5	21	12						
6/2/2016				1.3	28	1.3			
6/8/2016							15	44	25
6/9/2016									
7/25/2016	2.16	20.3		1.17					
7/26/2016			11		24.5	1.24			
8/1/2016							14.5	36.3	21.4
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							15.3	39.5	26.3
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							13.8	34.9	26.1
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							15.1		25.6
1/19/2017								37	
2/21/2017				1.25			14.6		
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									
5/5/2017									
5/8/2017							15.2	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							17.4		
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							15.5		
6/5/2018			15.2 (J)						

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	13				
6/9/2016		36	12	26	
7/25/2016					
7/26/2016					
8/1/2016	12.2				
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	12.2				
9/21/2016		33.2	11.1	24.9	
11/1/2016					
11/2/2016					
11/4/2016					23.7
11/7/2016	12.1		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	11.5	33.4		26.1	
1/19/2017			12		
2/21/2017	11.7			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	11.9				
5/5/2017		33.5		28.1	
5/8/2017			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	12.7				
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	11.4				
6/5/2018					

Prediction Limit

Constituent: Calcium (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	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	12.5				
10/1/2018					25
10/2/2018	12.4 (J)		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	11.9 (J)			25.7	
9/24/2019					26.4
9/25/2019	11.6		10.7		
9/26/2019		32		26.1	

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL

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-26I	YGWC-27S	YGWC-27I
6/1/2016	1.6	1.3	1.3						
6/2/2016				1.9	1.4	4.1			
6/8/2016							19	22	14
6/9/2016									
7/25/2016	1.4	1.3		1.7					
7/26/2016			1.2		1.6	4			
8/1/2016							17	21	13
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							18	22	13
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							17	24	14
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							19		14
1/19/2017								22	
2/21/2017				1.7			18		
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									
5/5/2017									
5/8/2017							18	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							19		
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							19		
6/5/2018			1.1						

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	18				
6/9/2016		18	15	19	
7/25/2016					
7/26/2016					
8/1/2016	16				
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	16		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	17	18		20	
1/19/2017			14		
2/21/2017	16			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	17				
5/5/2017		19 (o)		21	
5/8/2017			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	15				
10/3/2017					1.2
10/4/2017					
10/5/2017		19	15		
10/6/2017					
10/9/2017				20	
10/10/2017	15				
6/5/2018					

Prediction Limit

Constituent: Chloride (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	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	14.2				
10/1/2018					1.1
10/2/2018	14		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	13.5			19.5	
9/24/2019					0.95 (J)
9/25/2019	14.4		11.3		
9/26/2019		17.3		19.5	

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL

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-27I	YGWC-27S
6/1/2016	0.15 (J)	<0.2	0.12 (J)						
6/2/2016				<0.2	0.62	<0.2			
6/8/2016							<0.2	0.086 (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)	0.14 (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)	<0.3	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 (*)	<0.3 (*)	
1/19/2017									0.25 (J)
2/21/2017						<0.3 (*)	<0.3 (*)		
2/22/2017									0.21 (J)
2/23/2017								<0.3 (*)	
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								0.07 (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 (*)		<0.3 (*)	0.2 (J)
7/5/2017									
7/7/2017									
7/10/2017							<0.3 (*)		
10/3/2017		<0.3	<0.3 (*)						
10/4/2017	<0.3 (*)				<0.47 (*)	<0.3			
10/5/2017				<0.3					
10/6/2017									<0.3 (*)
10/9/2017								<0.3 (*)	
10/10/2017							<0.3		
3/27/2018		<0.3		<0.3		<0.3			

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
 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-27I	YGWC-27S
3/28/2018	<0.3				0.56				
3/29/2018			<0.3					<0.3	0.49
3/30/2018							0.35		
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)	<0.3	
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		0.034 (J)	0.088 (J)
4/2/2019							<0.3		
9/24/2019		<0.3	0.063 (J)						
9/25/2019	0.1 (J)			<0.3	0.46	<0.3	<0.3		
9/26/2019								0.14 (J)	0.22 (J)

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	0.094 (J)				
6/9/2016		0.16 (J)	0.098 (J)	0.085 (J)	
7/25/2016					
7/26/2016					
8/1/2016	0.08 (J)				
8/2/2016		0.5	0.38	0.09 (J)	
9/13/2016					
9/14/2016					0.08 (J)
9/15/2016					
9/19/2016					
9/20/2016	0.05 (J)				
9/21/2016		0.25 (J)	0.08 (J)	0.09 (J)	
11/1/2016					
11/2/2016					
11/4/2016					<0.3 (*)
11/7/2016	<0.3 (*)	0.27 (J)		<0.3 (*)	
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	0.11 (J)	0.34	0.12 (J)		
1/19/2017				<0.3 (*)	
2/21/2017	<0.3 (*)	0.27 (J)			
2/22/2017			<0.3 (*)	<0.3 (*)	
2/23/2017					
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	0.08 (J)			0.06 (J)	
5/26/2017					0.09 (J)
6/27/2017					
6/28/2017					0.11 (J)
6/30/2017					
7/5/2017			0.11 (J)	0.08 (J)	
7/7/2017		0.18 (J)			
7/10/2017	<0.3 (*)				
10/3/2017					<0.3 (*)
10/4/2017					
10/5/2017			<0.3 (*)	<0.3 (*)	
10/6/2017					
10/9/2017		<0.3 (*)			
10/10/2017	<0.3				
3/27/2018					

Prediction Limit

Constituent: Fluoride (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28S	YGWC-28I	YGWC-29I	YGWA-2I (bg)
3/28/2018					0.31
3/29/2018				<0.3	
3/30/2018	<0.3	<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	0.088 (J)				
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	0.22 (J)	0.14 (J)	0.15 (J)	0.12 (J)
3/28/2019					
3/29/2019					0.13 (J)
4/1/2019			0.078 (J)	0.059 (J)	
4/2/2019	0.071 (J)	0.14 (J)			
9/24/2019					0.081 (J)
9/25/2019	0.064 (J)			0.054 (J)	
9/26/2019		0.28 (J)	0.29 (J)		

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/20/2019 10:45 AM View: Interwell PL

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-27S	YGWC-27I	YGWC-26S
6/1/2016	7.72	6.33	7.46						
6/2/2016				5.46	7.84	5.75			
6/8/2016							6.24	6.32	5.24
6/9/2016									
7/25/2016	7.74	6.21				5.82			
7/26/2016			7.43	5.45	7.88				
8/1/2016							6.12	6.34	5.17
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							6.3	6.36	5.35
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							6.25	6.3	5.35
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								6.31	5.2
1/19/2017							6.2		
2/21/2017						5.67			5.14
2/22/2017							6.14		
2/23/2017								6.18	
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 (o)	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							6.11	6.24	
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	6.21	
7/5/2017									
7/7/2017									
7/10/2017									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								6.26	
10/10/2017									5.17
3/27/2018		6.25		5.47		5.83			

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/20/2019 10:45 AM View: Interwell PL

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-27S	YGWC-27I	YGWC-26S
3/28/2018	7.74				7.91				
3/29/2018			7.38				6.25	6.36	
3/30/2018									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								6.28	5.12
10/1/2018	7.47	5.9	6.8	5.39	7.39				
10/2/2018						5.39	5.99	5.9	4.95
10/3/2018									
2/26/2019				5.46		5.77			
2/27/2019	7.54	5.8	6.84		7.55		6.26	6.31	5
3/28/2019		6.15	6.99						
3/29/2019				5.34					
4/1/2019	7.74				7.87	5.62	6.4	6.43	
4/2/2019									5.13
9/24/2019		6.23	7.07						
9/25/2019	7.47			5.19	7.64	5.69			5.24
9/26/2019							6.22	6.3	

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	5.85				
6/9/2016		6.39	6.19	6.42	
7/25/2016					
7/26/2016					
8/1/2016	5.83				
8/2/2016		6.35	6.17	6.43	
9/13/2016					7.41
9/14/2016					
9/15/2016					
9/19/2016					
9/20/2016	5.89				
9/21/2016		6.39	6.2	6.45	
11/1/2016					
11/2/2016					
11/4/2016					7.12
11/7/2016	5.91	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	5.84	6.23		6.27	
1/19/2017			6.22		
2/21/2017	5.79	6.42			
2/22/2017			6.12	6.35	
2/23/2017					
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	5.84		6.11		
5/26/2017					7.13
6/27/2017					
6/28/2017					7.06
6/30/2017					
7/5/2017			6.17	6.4	
7/7/2017		6.46			
7/10/2017	5.92				
10/3/2017					6.99
10/4/2017					
10/5/2017			6.17	6.43	
10/6/2017					
10/9/2017		6.37			
10/10/2017	5.84				
3/27/2018					

Prediction Limit

Constituent: pH (S.U.) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-2I (bg)
3/28/2018					7.3
3/29/2018			6.09		
3/30/2018	6.19	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	5.82				
10/1/2018					7.07
10/2/2018	5.81		6.17		
10/3/2018		6.01		6.21	
2/26/2019					
2/27/2019	5.79	6.38	6.19	6.32	7.27
3/28/2019					
3/29/2019					7.06
4/1/2019			6.03	6.3	
4/2/2019	5.87	6.7			
9/24/2019					7.01
9/25/2019	5.79		6.21		
9/26/2019		6.47		6.43	

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL

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-26I	YGWC-27S	YGWC-27I
6/1/2016	4.2	12	5						
6/2/2016				1.3	5.8	6.6			
6/8/2016							81	26	3.2
6/9/2016									
7/25/2016	3.7	8.4		1.2					
7/26/2016			5.4		6.7	6.1			
8/1/2016							75	27	3.6
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							78	21	5.6
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							81	24	5.4
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			<1.4 (*)					
1/18/2017							95		3.5
1/19/2017								25	
2/21/2017				1.4			80		
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									
5/5/2017									
5/8/2017							84	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							84		
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							82		
6/5/2018			6.4						

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	YGWC-28I	YGWC-29I	YGWC-28S	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	110				
6/9/2016		8.7	33	5.2	
7/25/2016					
7/26/2016					
8/1/2016	96				
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	100				
9/21/2016		8	32	<4.1 (*)	
11/1/2016					
11/2/2016					
11/4/2016					13
11/7/2016	100		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	100	8		2.7	
1/19/2017			32		
2/21/2017	96			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	100				
5/5/2017		<8.4 (*)		<4.7 (*)	
5/8/2017			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	100				
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	97				
6/5/2018					

Prediction Limit

Constituent: Sulfate (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26S	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	93.3				
10/1/2018					9.1
10/2/2018	99		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	94.5			2.4	
9/24/2019					9.1
9/25/2019	97		30		
9/26/2019		7.9		1.6	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL

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-27S	YGWC-27I	YGWC-26S
6/1/2016	150	54	120						
6/2/2016				46	130	36			
6/8/2016							210	190	200
6/9/2016									
7/25/2016	135	48				50			
7/26/2016			94	54	141				
8/1/2016							209	191	191
8/2/2016									
9/13/2016		67	105						
9/14/2016	127								
9/15/2016				54	153				
9/19/2016						35			
9/20/2016							224	205	213
9/21/2016									
11/1/2016	75		44		92	<25			
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 (o)					
4/26/2017	92			52	181	55			
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				45		42	209	193	
7/5/2017									
7/7/2017									
7/10/2017									183
10/3/2017		58	119						
10/4/2017	147				141	31			
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 11/20/2019 10:45 AM View: Interwell PL
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-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	138	60	117	50	165				
10/2/2018						57	206	227	191
10/3/2018									
3/28/2019		87	87						
3/29/2019				63					
4/1/2019	19 (J)				149	54	221	198	
4/2/2019									224
9/24/2019		54	124						
9/25/2019	159			64	157	51			190
9/26/2019							225	198	

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-2I (bg)
6/1/2016					
6/2/2016					
6/8/2016	220				
6/9/2016		210	150	240	
7/25/2016					
7/26/2016					
8/1/2016	211				
8/2/2016		202	155	226	
9/13/2016					
9/14/2016					152
9/15/2016					
9/19/2016					
9/20/2016	217				
9/21/2016		216	138	214	
11/1/2016					
11/2/2016					
11/4/2016					148
11/7/2016	301	399	291		
11/8/2016				229	
12/15/2016					191
1/10/2017					
1/11/2017					
1/16/2017					180
1/18/2017	265 (D)	215 (D)		243 (D)	
1/19/2017			145 (D)		
2/21/2017	158	198			
2/22/2017			185	310	
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		347		289	
5/8/2017	207		114		
5/26/2017					223
6/27/2017					
6/28/2017					166
6/30/2017					
7/5/2017			136	217	
7/7/2017		236			
7/10/2017	219				
10/3/2017					153
10/4/2017					
10/5/2017			139	221	
10/6/2017					
10/9/2017		204			
10/10/2017	194				
6/5/2018					

Prediction Limit

Constituent: Total Dissolved Solids (mg/L) Analysis Run 11/20/2019 10:45 AM View: Interwell PL
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

	YGWC-26I	YGWC-28S	YGWC-29I	YGWC-28I	YGWA-2I (bg)
6/6/2018					
6/7/2018					146
6/8/2018					
6/11/2018			156		
6/12/2018		243		234	
6/13/2018	228				
10/1/2018					155
10/2/2018	227		154		
10/3/2018		237		232	
3/28/2019					
3/29/2019					150
4/1/2019			147	238	
4/2/2019	223	<25			
9/24/2019					146
9/25/2019	225		162		
9/26/2019		239		241	

Confidence Interval All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/15/2019, 3:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	YGWC-26I	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	14	57.14	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-27S	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	14	57.14	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-29I	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06748	0.06411	2	No	14	0	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02895	0.0266	2	No	14	0	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	14	0	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1076	0.09754	2	No	14	0	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-28I	0.0915	0.086	2	No	14	0	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28S	0.2195	0.2024	2	No	14	0	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.07468	0.06442	2	No	14	0	No	0.01	Param.
Beryllium (mg/L)	YGWC-26I	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-26S	0.003	0.0001	0.004	No	12	16.67	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.0001	0.004	No	12	25	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-28I	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-28S	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-29I	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-26I	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-26S	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-27I	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-27S	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0025	0.00009	0.005	No	12	16.67	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0025	0.0001	0.005	No	12	16.67	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No	12	66.67	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26S	0.01	0.0012	0.1	No	12	25	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	YGWC-27I	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.01	0.1	No	12	91.67	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No	12	83.33	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0005	0.1	No	12	91.67	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No	12	91.67	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26I	0.0025	0.0025	0.035	No	14	100	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002774	0.002011	0.035	No	14	7.143	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0495	0.0016	0.035	No	14	0	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-27S	0.002489	0.002282	0.035	No	14	7.143	No	0.01	Param.
Cobalt (mg/L)	YGWC-28I	0.0025	0.00042	0.035	No	14	92.86	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0013	0.00085	0.035	No	14	7.143	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.0025	0.0006	0.035	No	14	71.43	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.304	0.3939	5	No	14	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9463	0.5846	5	No	14	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.255	2.735	5	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.036	0.6207	5	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.7596	0.3014	5	No	14	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.8876	0.3717	5	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.2	0.6501	5	No	14	0	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.3	0.071	4	No	15	46.67	No	0.01	NP (normality)

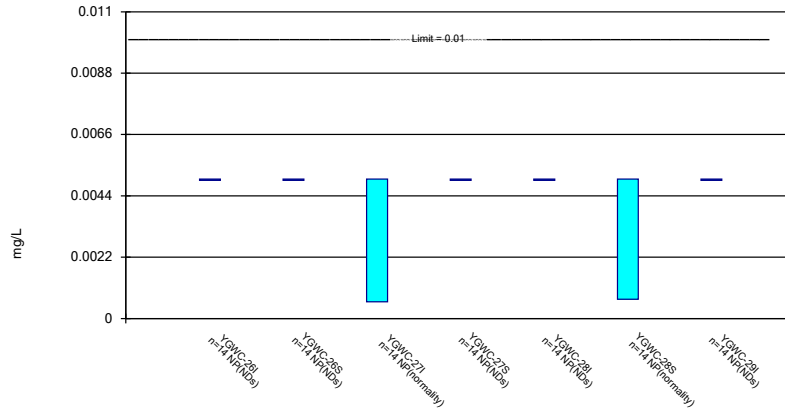
Confidence Interval All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/15/2019, 3:17 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Fluoride (mg/L)	YGWC-26S	0.35	0.16	4	No	15	60	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27I	0.3	0.086	4	No	15	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.3312	0.1545	4	No	15	20	No	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.3	0.08	4	No	15	33.33	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.3202	0.1931	4	No	15	13.33	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.3	0.06	4	No	15	46.67	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-26I	0.00696	0.006368	0.04	No	14	0	No	0.01	Param.
Lithium (mg/L)	YGWC-26S	0.01	0.01	0.04	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-27I	0.01117	0.00842	0.04	No	14	0	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.01	0.01	0.04	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007133	0.00661	0.04	No	14	0	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.01	0.01	0.04	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.006788	0.005512	0.04	No	14	0	No	0.01	Param.
Mercury (mg/L)	YGWC-26I	0.0005	0.000051	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0005	0.000066	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0005	0.000054	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0005	0.000049	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0005	0.000048	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0005	0.000052	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0005	0.000047	0.002	No	12	83.33	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-26I	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-26S	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.1	No	14	71.43	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-27S	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.1	No	14	64.29	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.0007	0.1	No	14	85.71	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.01	0.1	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.01	0.0017	0.05	No	12	16.67	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0012	0.05	No	12	66.67	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-27I	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-27S	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No	12	91.67	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No	12	91.67	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-29I	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

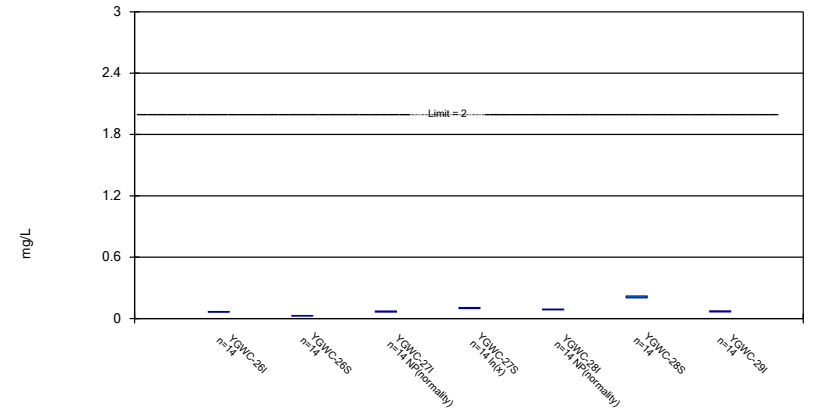
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 11/15/2019 3:15 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

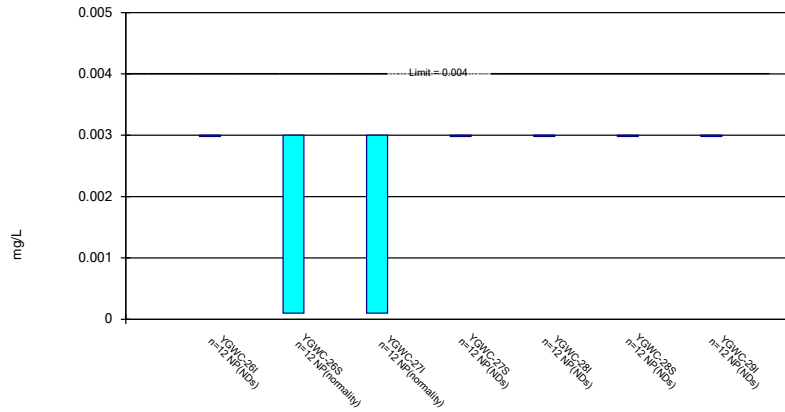
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Barium Analysis Run 11/15/2019 3:15 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

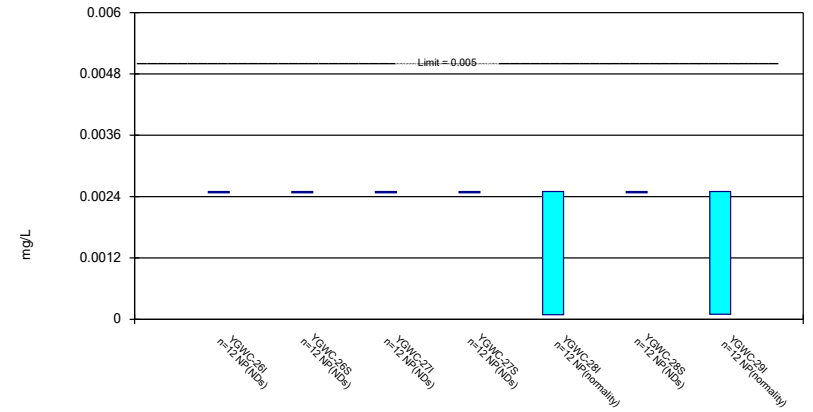
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 11/15/2019 3:15 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

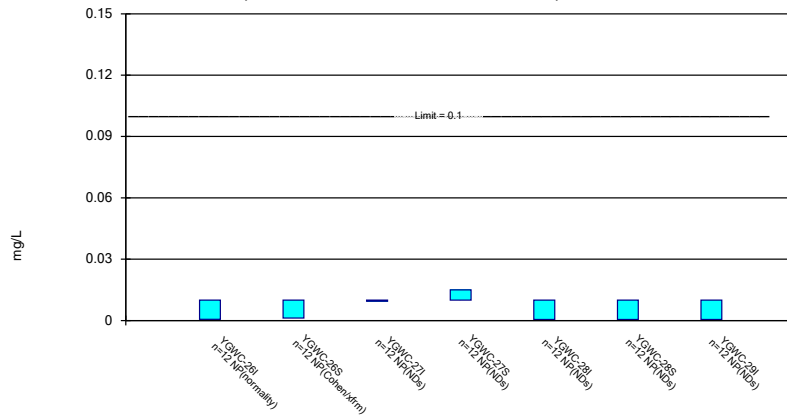
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 11/15/2019 3:15 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

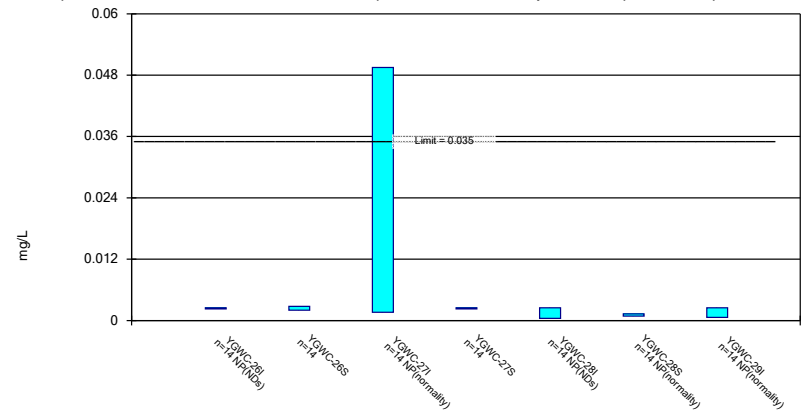
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/15/2019 3:16 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

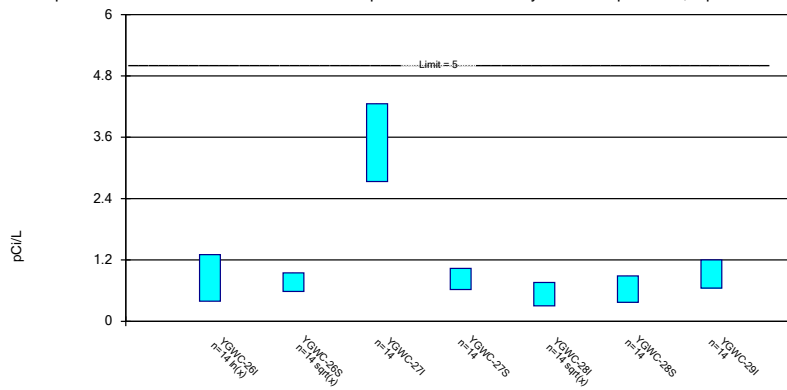
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/15/2019 3:16 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

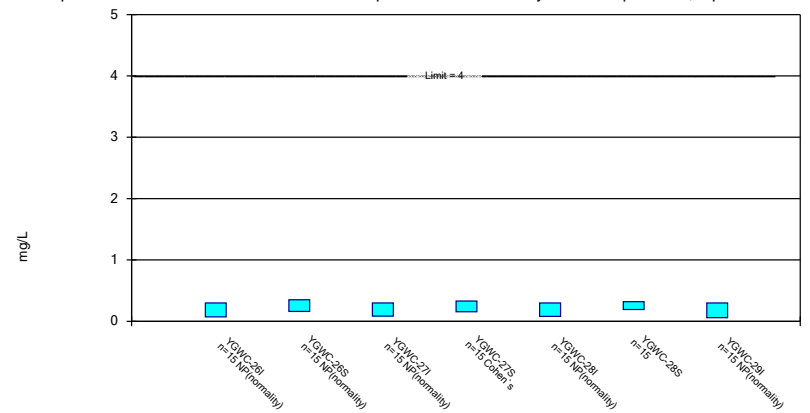
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/15/2019 3:16 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

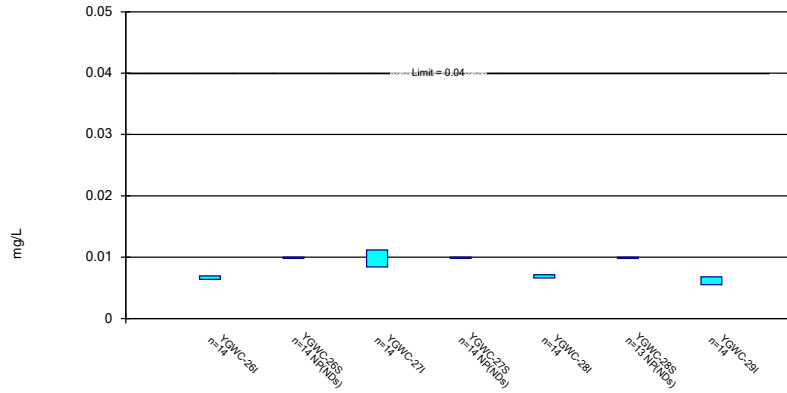
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Constituent: Fluoride Analysis Run 11/15/2019 3:16 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

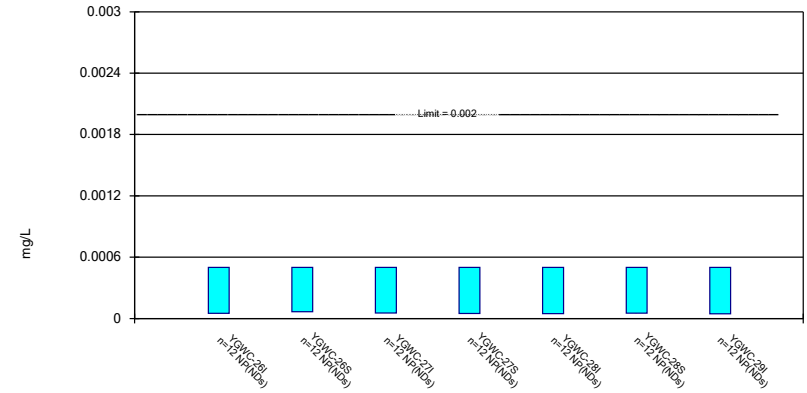
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/15/2019 3:16 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

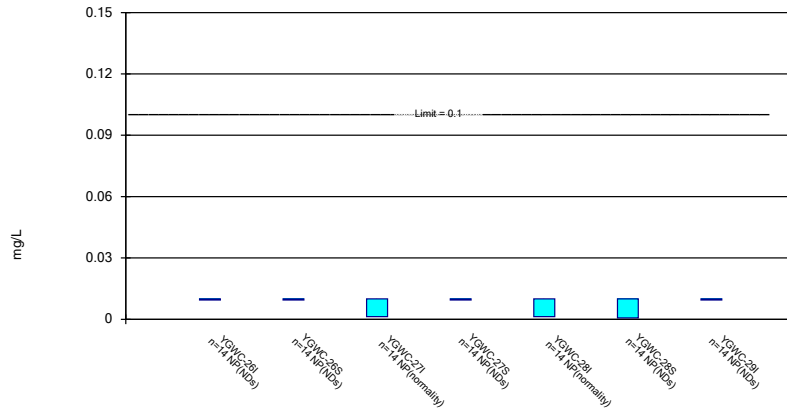
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/15/2019 3:16 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

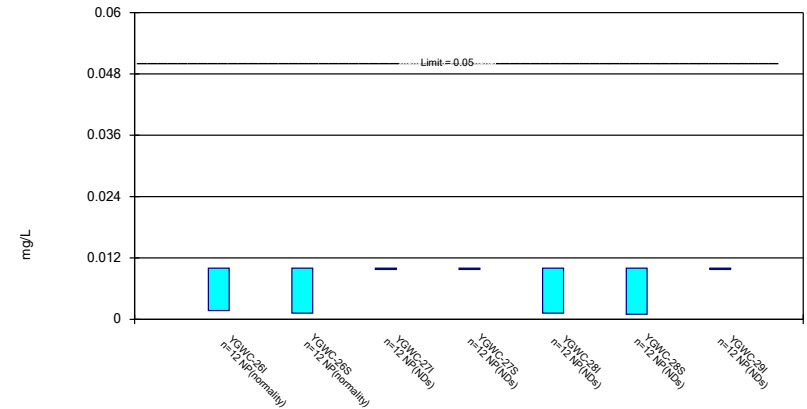
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 11/15/2019 3:16 PM View: Confidence Interval
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 11/15/2019 3:16 PM View: Confidence Interval
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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)	
Mean	0.005	0.005	0.003176	0.005	0.005	0.003168	0.005
Std. Dev.	0	0	0.002189	0	0	0.002197	0
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.005	0.0006	0.005	0.005	0.00069	0.005

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	
Mean	0.06579	0.02778	0.06839	0.1027	0.08872	0.2109	0.06955
Std. Dev.	0.00238	0.00166	0.006805	0.007355	0.003914	0.01206	0.007243
Upper Lim.	0.06748	0.02895	0.0728	0.1076	0.0915	0.2195	0.07468
Lower Lim.	0.06411	0.0266	0.063	0.09754	0.086	0.2024	0.06442

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	
Mean	0.003	0.0006367	0.0008858	0.003	0.003	0.003	0.003
Std. Dev.	0	0.001105	0.001276	0	0	0	0
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.0001	0.0001	0.003	0.003	0.003	0.003

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	
Mean	0.0025	0.0025	0.0025	0.0025	0.0005742	0.0025	0.0005683
Std. Dev.	0	0	0	0	0.0009118	0	0.0009039
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0025	0.0025	0.0025	0.0025	9E-05	0.0025	0.0001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	
Mean	0.007232	0.00435	0.01	0.01042	0.008412	0.009208	0.009208
Std. Dev.	0.004239	0.003623	0	0.001443	0.00371	0.002742	0.002742
Upper Lim.	0.01	0.01	0.01	0.015	0.01	0.01	0.01
Lower Lim.	0.0006	0.0012	0.01	0.01	0.0005	0.0005	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.0025	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.0025	0.0008 (J)	0.0006 (J)
9/20/2016	<0.0025	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.0025	0.0008 (J)	0.0007 (J)
11/7/2016	<0.0025	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.0025
11/8/2016					<0.0025		
1/18/2017	<0.0025	0.0022 (J)	0.0017 (J)		<0.0025	0.001 (J)	
1/19/2017				0.0024 (J)			<0.0025
2/21/2017	<0.0025	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.0025		<0.0025
2/23/2017			0.002 (J)				
5/3/2017		0.002 (J)					
5/5/2017					<0.0025	0.0012 (J)	
5/8/2017	<0.0025		0.0029 (J)	0.0023 (J)			<0.0025
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.0025		0.0003 (J)
7/7/2017						0.0012 (J)	
7/10/2017	<0.0025	0.002 (J)					
3/29/2018			0.0495 (D)	<0.0025			<0.0025
3/30/2018	<0.0025	<0.0025			<0.0025	<0.0025	
6/11/2018							<0.0025
6/12/2018				0.0025 (J)	<0.0025	0.0011 (J)	
6/13/2018	<0.0025	0.0017 (J)	0.092				
10/2/2018	<0.0025	0.002 (J)	0.078	0.0023 (J)			<0.0025
10/3/2018					<0.0025	0.0013 (J)	
2/27/2019	<0.0025	0.0017 (J)	0.035	0.0024 (J)	<0.0025	0.00093 (J)	<0.0025
4/1/2019			0.025	0.0023 (J)	<0.0025		<0.0025
4/2/2019	<0.0025	0.0022 (J)				0.0011 (J)	
9/25/2019	<0.0025	0.0033					<0.0025
9/26/2019			0.014	0.0021 (J)	<0.0025	0.00098 (J)	
Mean	0.0025	0.002393	0.02222	0.002386	0.002351	0.001133	0.001937
Std. Dev.	0	0.0005385	0.03061	0.000146	0.0005559	0.0004216	0.0009272
Upper Lim.	0.0025	0.002774	0.0495	0.002489	0.0025	0.0013	0.0025
Lower Lim.	0.0025	0.002011	0.0016	0.002282	0.00042	0.00085	0.0006

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	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	
Mean	1.12	0.7746	3.495	0.8282	0.5526	0.6297	0.9253
Std. Dev.	1.636	0.2685	1.072	0.293	0.3303	0.3642	0.3885
Upper Lim.	1.304	0.9463	4.255	1.036	0.7596	0.8876	1.2
Lower Lim.	0.3939	0.5846	2.735	0.6207	0.3014	0.3717	0.6501

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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)	
Mean	0.1825	0.2643	0.2313	0.2257	0.2077	0.2567	0.1845
Std. Dev.	0.1146	0.1084	0.1035	0.1106	0.108	0.09378	0.1139
Upper Lim.	0.3	0.35	0.3	0.3312	0.3	0.3202	0.3
Lower Lim.	0.071	0.16	0.086	0.1545	0.08	0.1931	0.06

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	<0.01	0.0067	<0.01			
6/9/2016					0.0073	<0.01	0.0075
8/1/2016	0.0068 (J)	<0.01	0.008 (J)	<0.01			
8/2/2016					0.0073 (J)	<0.01	0.0078 (J)
9/20/2016	0.0062 (J)	<0.01	0.0111 (J)	<0.01			
9/21/2016					0.0067 (J)	<0.01	0.0074 (J)
11/7/2016	0.0057 (J)	<0.01	0.0097 (J)	<0.01		<0.01	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.01	0.01 (J)		0.0067 (J)	<0.01	
1/19/2017				<0.01			0.0055 (J)
2/21/2017	0.0067 (J)	<0.01				<0.01	
2/22/2017				<0.01	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (J)				
5/3/2017		<0.01					
5/5/2017					0.007 (J)	<0.01	
5/8/2017	0.007 (J)		0.0086 (J)	<0.01			0.0066 (J)
6/30/2017			0.0108 (J)	<0.01			
7/5/2017					0.0072 (J)		0.0058 (J)
7/7/2017						<0.01	
7/10/2017	0.0064 (J)	<0.01					
3/29/2018			0.011 (J)	<0.01			0.0049 (J)
3/30/2018	0.0068 (J)	<0.01			0.007 (J)	<0.01	
6/11/2018							0.0064 (J)
6/12/2018				<0.01	0.0073 (J)	<0.01	
6/13/2018	0.0071 (J)	<0.01	0.014 (J)				
10/2/2018	0.0064 (J)	<0.01	0.012 (J)	<0.01			0.006 (J)
10/3/2018					0.0069 (J)	<0.25 (o)	
2/27/2019	0.0069 (J)	<0.01	0.0096 (J)	<0.01	0.0063 (J)	<0.01	0.0053 (J)
4/1/2019			0.0082 (J)	<0.01	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)	<0.01				<0.01	
9/25/2019	0.0073 (J)	<0.01					0.0057 (J)
9/26/2019			0.0075 (J)	<0.01	0.0064 (J)	<0.01	
Mean	0.006664	0.01	0.009793	0.01	0.006871	0.01	0.00615
Std. Dev.	0.0004181	0	0.001938	0	0.0003688	0	0.0009011
Upper Lim.	0.00696	0.01	0.01117	0.01	0.007133	0.01	0.006788
Lower Lim.	0.006368	0.01	0.00842	0.01	0.00661	0.01	0.005512

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					<0.0005 (*)	<0.0005 (*)	<0.0005 (*)
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					<0.0005	<0.0005	<0.0005
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
11/8/2016					<0.0005		
1/18/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	
1/19/2017				<0.0005			<0.0005
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	<0.0005		<0.0005
2/23/2017			<0.0005				
5/3/2017		<0.0005					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			<0.0005
6/30/2017			<0.0005 (*)	<0.0005 (*)			
7/5/2017					<0.0005		<0.0005
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0005		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0005	
9/25/2019	<0.0005	<0.0005					<0.0005
9/26/2019			<0.0005	<0.0005	<0.0005	<0.0005	
Mean	0.0004252	0.0004263	0.0004249	0.0004242	0.0004623	0.0004627	0.0004238
Std. Dev.	0.0001748	0.0001723	0.0001754	0.0001771	0.0001305	0.0001293	0.0001779
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	4.9E-05	4.8E-05	5.2E-05	4.7E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	
Mean	0.01	0.01	0.007521	0.01	0.0069	0.008664	0.01
Std. Dev.	0	0	0.00407	0	0.004317	0.003395	0
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.01	0.01	0.0013	0.01	0.0013	0.0007	0.01

Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/15/2019 3:17 PM View: Confidence Interval

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	
Mean	0.003267	0.007025	0.01	0.01	0.009267	0.00925	0.01
Std. Dev.	0.003152	0.004403	0	0	0.00254	0.002598	0
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0017	0.0012	0.01	0.01	0.0012	0.001	0.01

Confidence Interval All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/15/2019, 3:14 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Arsenic (mg/L)	YGWC-26I	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-26S	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-27I	0.005	0.0006	0.01	No	14	57.14	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-27S	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28I	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Arsenic (mg/L)	YGWC-28S	0.005	0.00069	0.01	No	14	57.14	No	0.01	NP (normality)
Arsenic (mg/L)	YGWC-29I	0.005	0.005	0.01	No	14	100	No	0.01	NP (NDs)
Barium (mg/L)	YGWC-26I	0.06748	0.06411	2	No	14	0	No	0.01	Param.
Barium (mg/L)	YGWC-26S	0.02895	0.0266	2	No	14	0	No	0.01	Param.
Barium (mg/L)	YGWC-27I	0.0728	0.063	2	No	14	0	No	0.01	NP (normality)
Barium (mg/L)	YGWC-27S	0.1076	0.09754	2	No	14	0	ln(x)	0.01	Param.
Barium (mg/L)	YGWC-28I	0.0915	0.086	2	No	14	0	No	0.01	NP (normality)
Barium (mg/L)	YGWC-28S	0.2195	0.2024	2	No	14	0	No	0.01	Param.
Barium (mg/L)	YGWC-29I	0.07468	0.06442	2	No	14	0	No	0.01	Param.
Beryllium (mg/L)	YGWC-26I	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-26S	0.003	0.0001	0.004	No	12	16.67	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27I	0.003	0.0001	0.004	No	12	25	No	0.01	NP (normality)
Beryllium (mg/L)	YGWC-27S	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-28I	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-28S	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Beryllium (mg/L)	YGWC-29I	0.003	0.003	0.004	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-26I	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-26S	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-27I	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-27S	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-28I	0.0025	0.00009	0.005	No	12	16.67	No	0.01	NP (normality)
Cadmium (mg/L)	YGWC-28S	0.0025	0.0025	0.005	No	12	100	No	0.01	NP (NDs)
Cadmium (mg/L)	YGWC-29I	0.0025	0.0001	0.005	No	12	16.67	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26I	0.01	0.0006	0.1	No	12	66.67	No	0.01	NP (normality)
Chromium (mg/L)	YGWC-26S	0.01	0.0012	0.1	No	12	25	No	0.01	NP (Cohens/xfrm)
Chromium (mg/L)	YGWC-27I	0.01	0.01	0.1	No	12	100	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-27S	0.015	0.01	0.1	No	12	91.67	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28I	0.01	0.0005	0.1	No	12	83.33	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-28S	0.01	0.0005	0.1	No	12	91.67	No	0.01	NP (NDs)
Chromium (mg/L)	YGWC-29I	0.01	0.0005	0.1	No	12	91.67	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26I	0.0025	0.0025	0.035	No	14	100	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-26S	0.002774	0.002011	0.035	No	14	7.143	No	0.01	Param.
Cobalt (mg/L)	YGWC-27I	0.0495	0.0016	0.035	No	14	0	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-27S	0.002489	0.002282	0.035	No	14	7.143	No	0.01	Param.
Cobalt (mg/L)	YGWC-28I	0.0025	0.00042	0.035	No	14	92.86	No	0.01	NP (NDs)
Cobalt (mg/L)	YGWC-28S	0.0013	0.00085	0.035	No	14	7.143	No	0.01	NP (normality)
Cobalt (mg/L)	YGWC-29I	0.0025	0.0006	0.035	No	14	71.43	No	0.01	NP (normality)
Combined Radium 226 + 228 (pCi/L)	YGWC-26I	1.304	0.3939	5	No	14	0	ln(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-26S	0.9463	0.5846	5	No	14	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27I	4.255	2.735	5	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-27S	1.036	0.6207	5	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28I	0.7596	0.3014	5	No	14	0	sqrt(x)	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-28S	0.8876	0.3717	5	No	14	0	No	0.01	Param.
Combined Radium 226 + 228 (pCi/L)	YGWC-29I	1.2	0.6501	5	No	14	0	No	0.01	Param.
Fluoride (mg/L)	YGWC-26I	0.3	0.071	4	No	15	46.67	No	0.01	NP (normality)

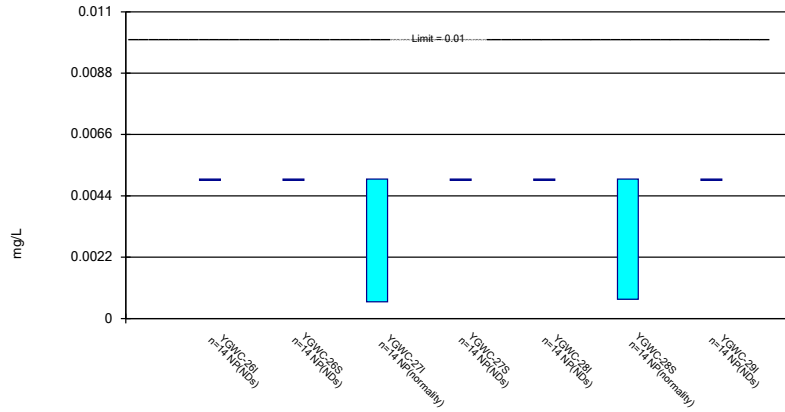
Confidence Interval All Results

Plant Yates Client: Southern Company Data: Yates Ash Pond 2 Printed 11/15/2019, 3:14 PM

<u>Constituent</u>	<u>Well</u>	<u>Upper Lim.</u>	<u>Lower Lim.</u>	<u>Compliance</u>	<u>Sig.</u>	<u>N</u>	<u>%NDs</u>	<u>Transform</u>	<u>Alpha</u>	<u>Method</u>
Fluoride (mg/L)	YGWC-26S	0.35	0.16	4	No	15	60	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27I	0.3	0.086	4	No	15	66.67	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-27S	0.3312	0.1545	4	No	15	20	No	0.01	Param.
Fluoride (mg/L)	YGWC-28I	0.3	0.08	4	No	15	33.33	No	0.01	NP (normality)
Fluoride (mg/L)	YGWC-28S	0.3202	0.1931	4	No	15	13.33	No	0.01	Param.
Fluoride (mg/L)	YGWC-29I	0.3	0.06	4	No	15	46.67	No	0.01	NP (normality)
Lithium (mg/L)	YGWC-26I	0.00696	0.006368	0.025	No	14	0	No	0.01	Param.
Lithium (mg/L)	YGWC-26S	0.01	0.01	0.025	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-27I	0.01117	0.00842	0.025	No	14	0	No	0.01	Param.
Lithium (mg/L)	YGWC-27S	0.01	0.01	0.025	No	14	100	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-28I	0.007133	0.00661	0.025	No	14	0	No	0.01	Param.
Lithium (mg/L)	YGWC-28S	0.01	0.01	0.025	No	13	100	No	0.01	NP (NDs)
Lithium (mg/L)	YGWC-29I	0.006788	0.005512	0.025	No	14	0	No	0.01	Param.
Mercury (mg/L)	YGWC-26I	0.0005	0.000051	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-26S	0.0005	0.000066	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27I	0.0005	0.000054	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-27S	0.0005	0.000049	0.002	No	12	83.33	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28I	0.0005	0.000048	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-28S	0.0005	0.000052	0.002	No	12	91.67	No	0.01	NP (NDs)
Mercury (mg/L)	YGWC-29I	0.0005	0.000047	0.002	No	12	83.33	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-26I	0.01	0.01	0.014	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-26S	0.01	0.01	0.014	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-27I	0.01	0.0013	0.014	No	14	71.43	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-27S	0.01	0.01	0.014	No	14	100	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-28I	0.01	0.0013	0.014	No	14	64.29	No	0.01	NP (normality)
Molybdenum (mg/L)	YGWC-28S	0.01	0.0007	0.014	No	14	85.71	No	0.01	NP (NDs)
Molybdenum (mg/L)	YGWC-29I	0.01	0.01	0.014	No	14	100	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-26I	0.01	0.0017	0.05	No	12	16.67	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-26S	0.01	0.0012	0.05	No	12	66.67	No	0.01	NP (normality)
Selenium (mg/L)	YGWC-27I	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-27S	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28I	0.01	0.0012	0.05	No	12	91.67	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-28S	0.01	0.001	0.05	No	12	91.67	No	0.01	NP (NDs)
Selenium (mg/L)	YGWC-29I	0.01	0.01	0.05	No	12	100	No	0.01	NP (NDs)

Non-Parametric Confidence Interval

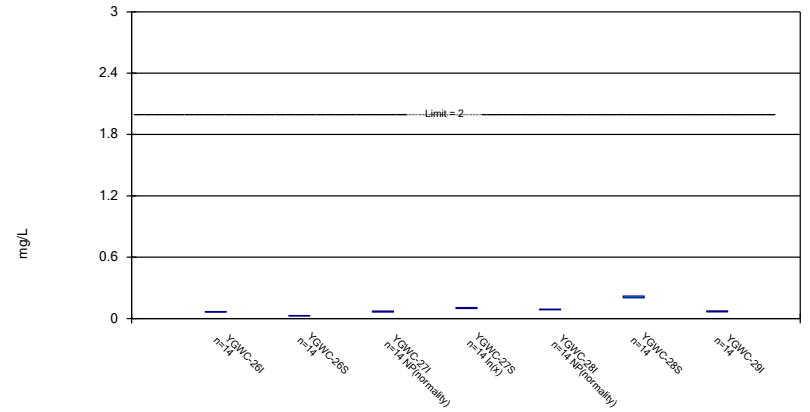
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Arsenic Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

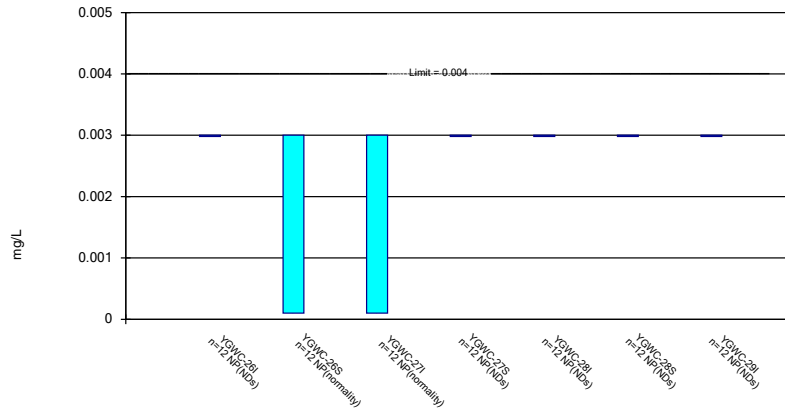
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Constituent: Barium Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

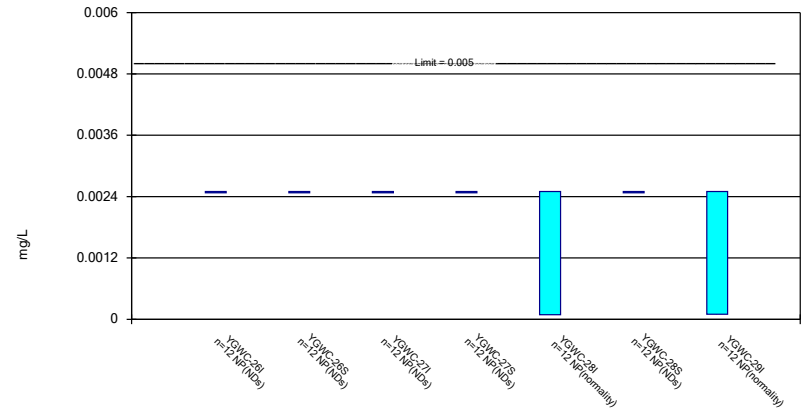
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Beryllium Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

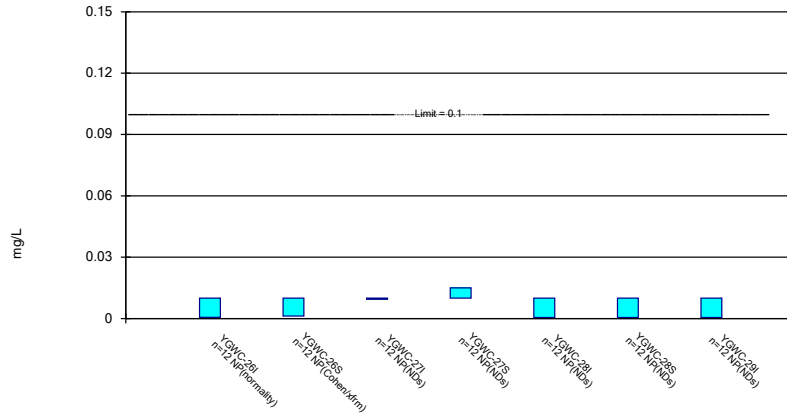
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Cadmium Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

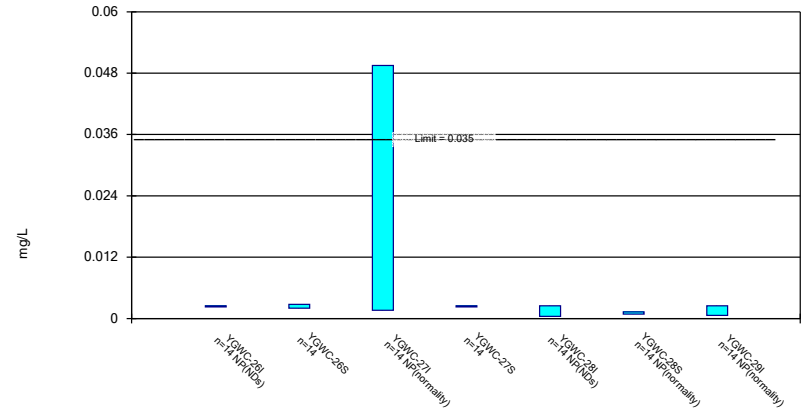
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Chromium Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

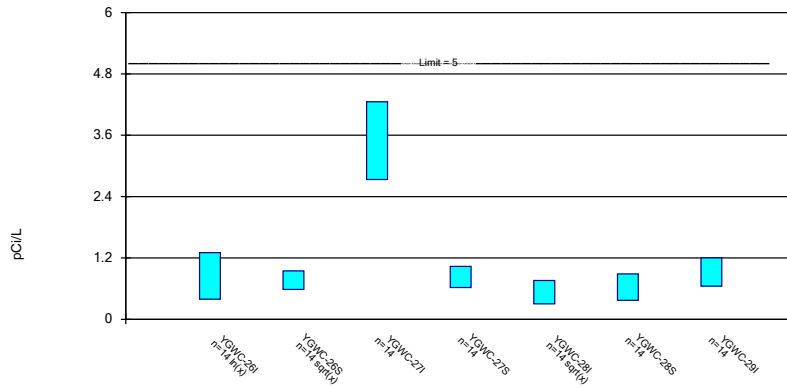
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Cobalt Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric Confidence Interval

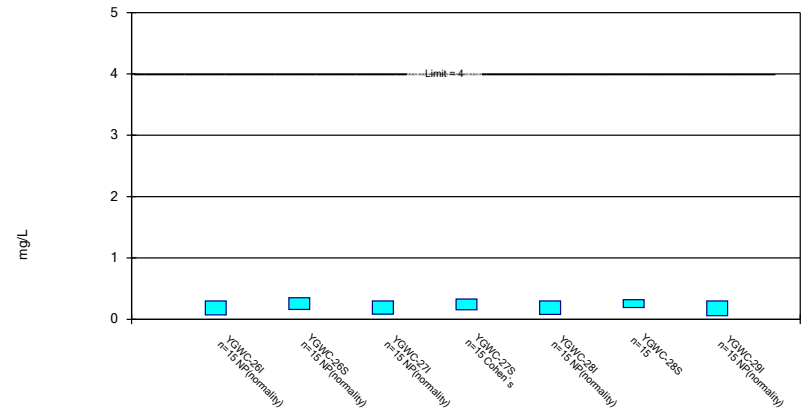
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Combined Radium 226 + 228 Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

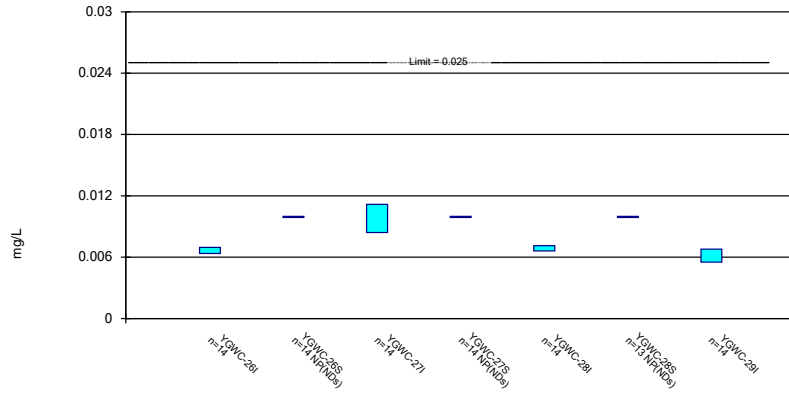
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Fluoride Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Parametric and Non-Parametric (NP) Confidence Interval

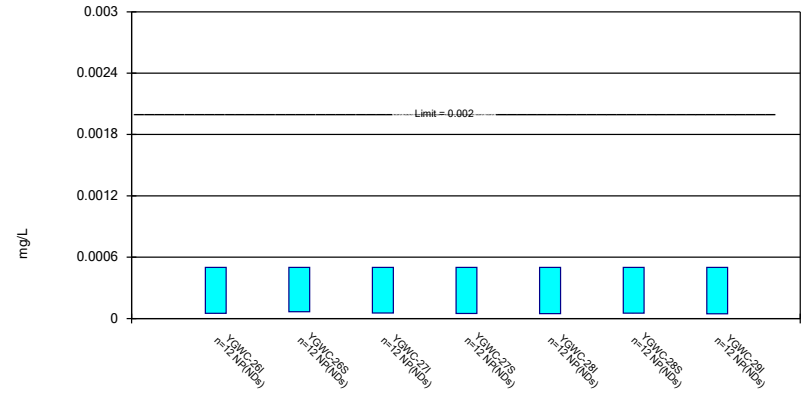
Compliance Limit is not exceeded. Per-well alpha = 0.01. Normality Test: Shapiro Wilk, alpha based on n.



Constituent: Lithium Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

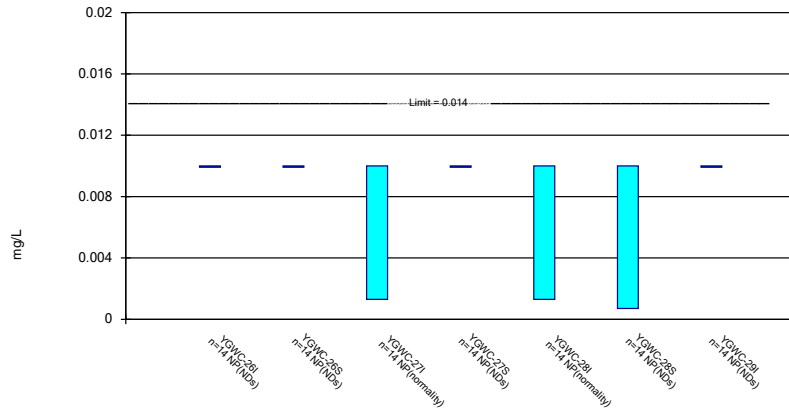
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Mercury Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Non-Parametric Confidence Interval

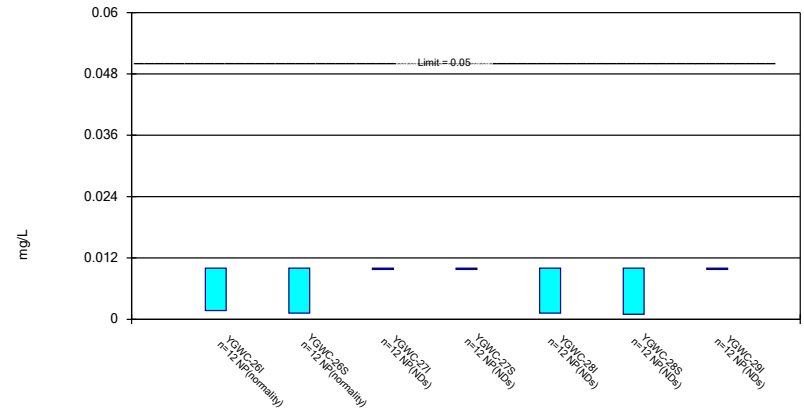
Compliance Limit is not exceeded. Per-well alpha = 0.01.



Constituent: Molybdenum Analysis Run 11/15/2019 3:12 PM View: Confidence Interval
 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 11/15/2019 3:12 PM View: Confidence Interval
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Confidence Interval

Constituent: Arsenic (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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)	
Mean	0.005	0.005	0.003176	0.005	0.005	0.003168	0.005
Std. Dev.	0	0	0.002189	0	0	0.002197	0
Upper Lim.	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Lower Lim.	0.005	0.005	0.0006	0.005	0.005	0.00069	0.005

Confidence Interval

Constituent: Barium (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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	
Mean	0.06579	0.02778	0.06839	0.1027	0.08872	0.2109	0.06955
Std. Dev.	0.00238	0.00166	0.006805	0.007355	0.003914	0.01206	0.007243
Upper Lim.	0.06748	0.02895	0.0728	0.1076	0.0915	0.2195	0.07468
Lower Lim.	0.06411	0.0266	0.063	0.09754	0.086	0.2024	0.06442

Confidence Interval

Constituent: Beryllium (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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	
Mean	0.003	0.0006367	0.0008858	0.003	0.003	0.003	0.003
Std. Dev.	0	0.001105	0.001276	0	0	0	0
Upper Lim.	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Lower Lim.	0.003	0.0001	0.0001	0.003	0.003	0.003	0.003

Confidence Interval

Constituent: Cadmium (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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	
Mean	0.0025	0.0025	0.0025	0.0025	0.0005742	0.0025	0.0005683
Std. Dev.	0	0	0	0	0.0009118	0	0.0009039
Upper Lim.	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025	0.0025
Lower Lim.	0.0025	0.0025	0.0025	0.0025	9E-05	0.0025	0.0001

Confidence Interval

Constituent: Chromium (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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	
Mean	0.007232	0.00435	0.01	0.01042	0.008412	0.009208	0.009208
Std. Dev.	0.004239	0.003623	0	0.001443	0.00371	0.002742	0.002742
Upper Lim.	0.01	0.01	0.01	0.015	0.01	0.01	0.01
Lower Lim.	0.0006	0.0012	0.01	0.01	0.0005	0.0005	0.0005

Confidence Interval

Constituent: Cobalt (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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	0.0032	0.0016 (J)	0.0024 (J)			
6/9/2016					0.00042 (J)	0.00085 (J)	0.00052 (J)
8/1/2016	<0.0025	0.003 (J)	0.0014 (J)	0.0026 (J)			
8/2/2016					<0.0025	0.0008 (J)	0.0006 (J)
9/20/2016	<0.0025	0.003 (J)	0.002 (J)	0.0026 (J)			
9/21/2016					<0.0025	0.0008 (J)	0.0007 (J)
11/7/2016	<0.0025	0.0025 (J)	0.0016 (J)	0.0025 (J)		0.001 (J)	<0.0025
11/8/2016					<0.0025		
1/18/2017	<0.0025	0.0022 (J)	0.0017 (J)		<0.0025	0.001 (J)	
1/19/2017				0.0024 (J)			<0.0025
2/21/2017	<0.0025	0.0022 (J)				0.0011 (J)	
2/22/2017				0.0023 (J)	<0.0025		<0.0025
2/23/2017			0.002 (J)				
5/3/2017		0.002 (J)					
5/5/2017					<0.0025	0.0012 (J)	
5/8/2017	<0.0025		0.0029 (J)	0.0023 (J)			<0.0025
6/30/2017			0.0044 (J)	0.0022 (J)			
7/5/2017					<0.0025		0.0003 (J)
7/7/2017						0.0012 (J)	
7/10/2017	<0.0025	0.002 (J)					
3/29/2018			0.0495 (D)	<0.0025			<0.0025
3/30/2018	<0.0025	<0.0025			<0.0025	<0.0025	
6/11/2018							<0.0025
6/12/2018				0.0025 (J)	<0.0025	0.0011 (J)	
6/13/2018	<0.0025	0.0017 (J)	0.092				
10/2/2018	<0.0025	0.002 (J)	0.078	0.0023 (J)			<0.0025
10/3/2018					<0.0025	0.0013 (J)	
2/27/2019	<0.0025	0.0017 (J)	0.035	0.0024 (J)	<0.0025	0.00093 (J)	<0.0025
4/1/2019			0.025	0.0023 (J)	<0.0025		<0.0025
4/2/2019	<0.0025	0.0022 (J)				0.0011 (J)	
9/25/2019	<0.0025	0.0033					<0.0025
9/26/2019			0.014	0.0021 (J)	<0.0025	0.00098 (J)	
Mean	0.0025	0.002393	0.02222	0.002386	0.002351	0.001133	0.001937
Std. Dev.	0	0.0005385	0.03061	0.000146	0.0005559	0.0004216	0.0009272
Upper Lim.	0.0025	0.002774	0.0495	0.002489	0.0025	0.0013	0.0025
Lower Lim.	0.0025	0.002011	0.0016	0.002282	0.00042	0.00085	0.0006

Confidence Interval

Constituent: Combined Radium 226 + 228 (pCi/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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	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	
Mean	1.12	0.7746	3.495	0.8282	0.5526	0.6297	0.9253
Std. Dev.	1.636	0.2685	1.072	0.293	0.3303	0.3642	0.3885
Upper Lim.	1.304	0.9463	4.255	1.036	0.7596	0.8876	1.2
Lower Lim.	0.3939	0.5846	2.735	0.6207	0.3014	0.3717	0.6501

Confidence Interval

Constituent: Fluoride (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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)	
Mean	0.1825	0.2643	0.2313	0.2257	0.2077	0.2567	0.1845
Std. Dev.	0.1146	0.1084	0.1035	0.1106	0.108	0.09378	0.1139
Upper Lim.	0.3	0.35	0.3	0.3312	0.3	0.3202	0.3
Lower Lim.	0.071	0.16	0.086	0.1545	0.08	0.1931	0.06

Confidence Interval

Constituent: Lithium (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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	<0.01	0.0067	<0.01			
6/9/2016					0.0073	<0.01	0.0075
8/1/2016	0.0068 (J)	<0.01	0.008 (J)	<0.01			
8/2/2016					0.0073 (J)	<0.01	0.0078 (J)
9/20/2016	0.0062 (J)	<0.01	0.0111 (J)	<0.01			
9/21/2016					0.0067 (J)	<0.01	0.0074 (J)
11/7/2016	0.0057 (J)	<0.01	0.0097 (J)	<0.01		<0.01	0.0057 (J)
11/8/2016					0.0072 (J)		
1/18/2017	0.0066 (J)	<0.01	0.01 (J)		0.0067 (J)	<0.01	
1/19/2017				<0.01			0.0055 (J)
2/21/2017	0.0067 (J)	<0.01				<0.01	
2/22/2017				<0.01	0.0064 (J)		0.0063 (J)
2/23/2017			0.0099 (J)				
5/3/2017		<0.01					
5/5/2017					0.007 (J)	<0.01	
5/8/2017	0.007 (J)		0.0086 (J)	<0.01			0.0066 (J)
6/30/2017			0.0108 (J)	<0.01			
7/5/2017					0.0072 (J)		0.0058 (J)
7/7/2017						<0.01	
7/10/2017	0.0064 (J)	<0.01					
3/29/2018			0.011 (J)	<0.01			0.0049 (J)
3/30/2018	0.0068 (J)	<0.01			0.007 (J)	<0.01	
6/11/2018							0.0064 (J)
6/12/2018				<0.01	0.0073 (J)	<0.01	
6/13/2018	0.0071 (J)	<0.01	0.014 (J)				
10/2/2018	0.0064 (J)	<0.01	0.012 (J)	<0.01			0.006 (J)
10/3/2018					0.0069 (J)	<0.25 (o)	
2/27/2019	0.0069 (J)	<0.01	0.0096 (J)	<0.01	0.0063 (J)	<0.01	0.0053 (J)
4/1/2019			0.0082 (J)	<0.01	0.0065 (J)		0.0052 (J)
4/2/2019	0.0064 (J)	<0.01				<0.01	
9/25/2019	0.0073 (J)	<0.01					0.0057 (J)
9/26/2019			0.0075 (J)	<0.01	0.0064 (J)	<0.01	
Mean	0.006664	0.01	0.009793	0.01	0.006871	0.01	0.00615
Std. Dev.	0.0004181	0	0.001938	0	0.0003688	0	0.0009011
Upper Lim.	0.00696	0.01	0.01117	0.01	0.007133	0.01	0.006788
Lower Lim.	0.006368	0.01	0.00842	0.01	0.00661	0.01	0.005512

Confidence Interval

Constituent: Mercury (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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	<0.0005	<0.0005	<0.0005	<0.0005			
6/9/2016					<0.0005 (*)	<0.0005 (*)	<0.0005 (*)
8/1/2016	<0.0005	<0.0005	<0.0005	<0.0005			
8/2/2016					<0.0005	<0.0005	<0.0005
9/20/2016	<0.0005	<0.0005	<0.0005	<0.0005			
9/21/2016					<0.0005	<0.0005	<0.0005
11/7/2016	<0.0005	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005
11/8/2016					<0.0005		
1/18/2017	<0.0005	<0.0005	<0.0005		<0.0005	<0.0005	
1/19/2017				<0.0005			<0.0005
2/21/2017	<0.0005	<0.0005				<0.0005	
2/22/2017				<0.0005	<0.0005		<0.0005
2/23/2017			<0.0005				
5/3/2017		<0.0005					
5/5/2017					<0.0005	<0.0005	
5/8/2017	<0.0005		<0.0005	<0.0005			<0.0005
6/30/2017			<0.0005 (*)	<0.0005 (*)			
7/5/2017					<0.0005		<0.0005
7/7/2017						<0.0005	
7/10/2017	<0.0005	<0.0005					
3/29/2018			<0.0005	<0.0005			<0.0005
3/30/2018	<0.0005	<0.0005			<0.0005	<0.0005	
2/27/2019	5.1E-05 (J)	4.9E-05 (J)	5.4E-05 (J)	4.9E-05 (J)	4.8E-05 (J)	5.2E-05 (J)	4.7E-05 (J)
4/1/2019			4.5E-05 (J)	4.1E-05 (J)	<0.0005		3.9E-05 (J)
4/2/2019	5.1E-05 (J)	6.6E-05 (J)				<0.0005	
9/25/2019	<0.0005	<0.0005					<0.0005
9/26/2019			<0.0005	<0.0005	<0.0005	<0.0005	
Mean	0.0004252	0.0004263	0.0004249	0.0004242	0.0004623	0.0004627	0.0004238
Std. Dev.	0.0001748	0.0001723	0.0001754	0.0001771	0.0001305	0.0001293	0.0001779
Upper Lim.	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005	0.0005
Lower Lim.	5.1E-05	6.6E-05	5.4E-05	4.9E-05	4.8E-05	5.2E-05	4.7E-05

Confidence Interval

Constituent: Molybdenum (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

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	
Mean	0.01	0.01	0.007521	0.01	0.0069	0.008664	0.01
Std. Dev.	0	0	0.00407	0	0.004317	0.003395	0
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.01	0.01	0.0013	0.01	0.0013	0.0007	0.01

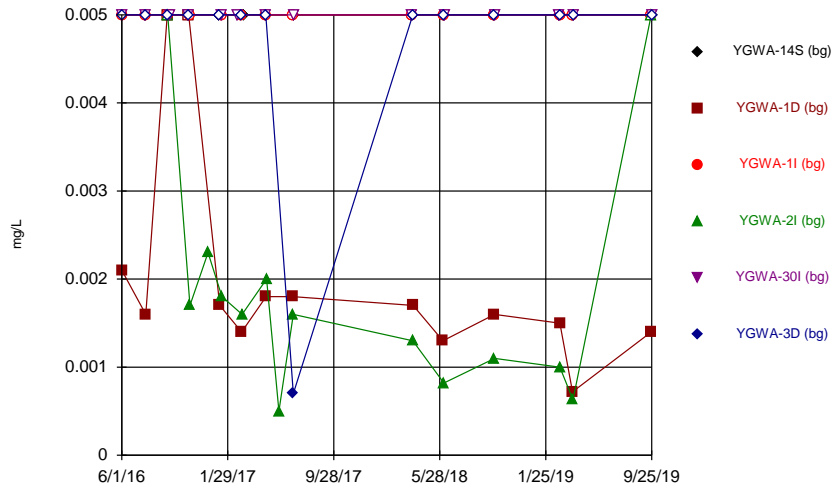
Confidence Interval

Constituent: Selenium (mg/L) Analysis Run 11/15/2019 3:14 PM View: Confidence Interval

Plant Yates Client: Southern Company Data: Yates Ash Pond 2

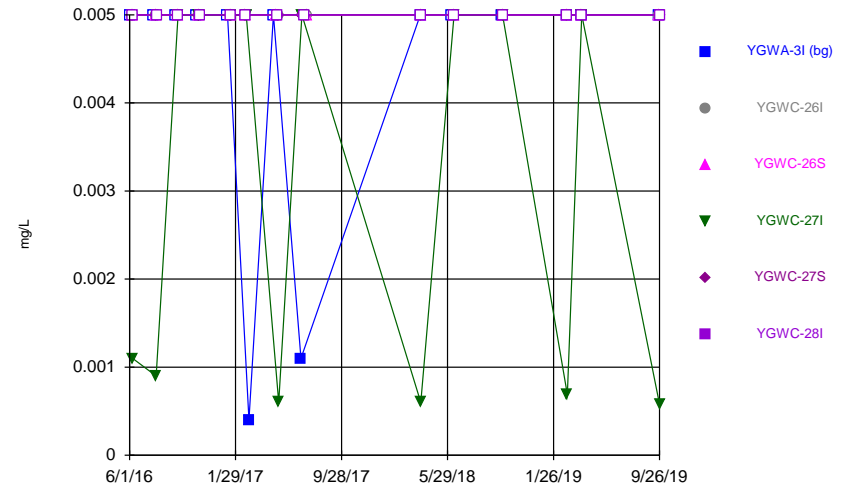
	YGWC-26I	YGWC-26S	YGWC-27I	YGWC-27S	YGWC-28I	YGWC-28S	YGWC-29I
6/8/2016	0.0016	0.0003 (J)	<0.01	<0.01			
6/9/2016					<0.01	<0.01	<0.01
8/1/2016	0.0023 (J)	0.0014 (J)	<0.01	<0.01			
8/2/2016					<0.01	<0.01	<0.01
9/20/2016	0.0022 (J)	<0.01	<0.01	<0.01			
9/21/2016					<0.01	0.001 (J)	<0.01
11/7/2016	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	
Mean	0.003267	0.007025	0.01	0.01	0.009267	0.00925	0.01
Std. Dev.	0.003152	0.004403	0	0	0.00254	0.002598	0
Upper Lim.	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Lower Lim.	0.0017	0.0012	0.01	0.01	0.0012	0.001	0.01

Time Series



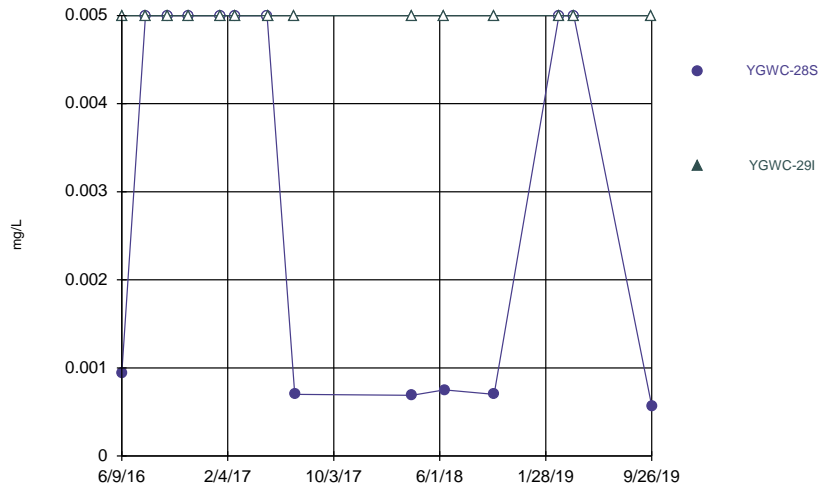
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



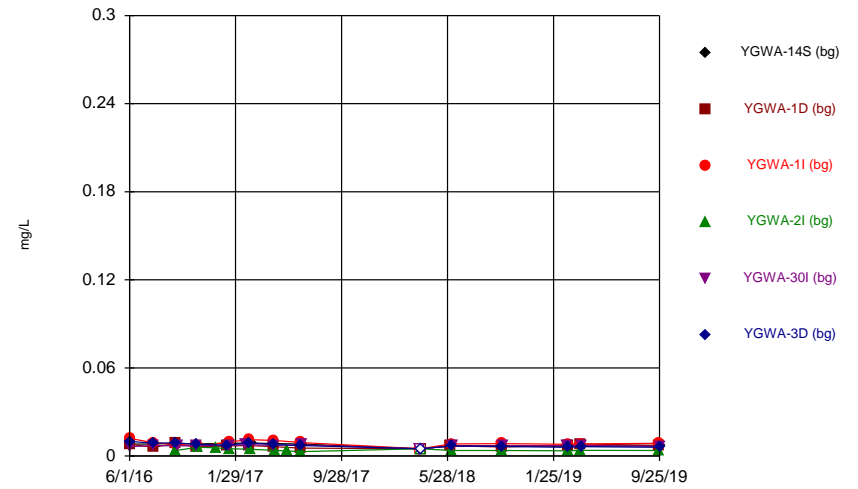
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



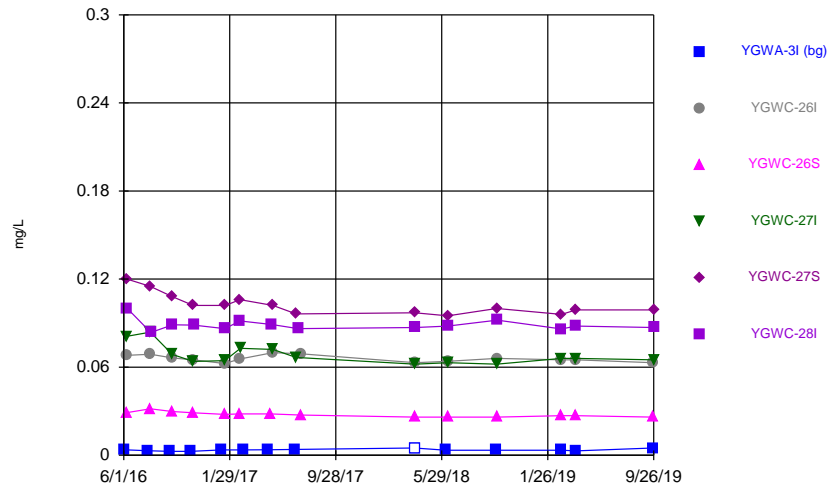
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



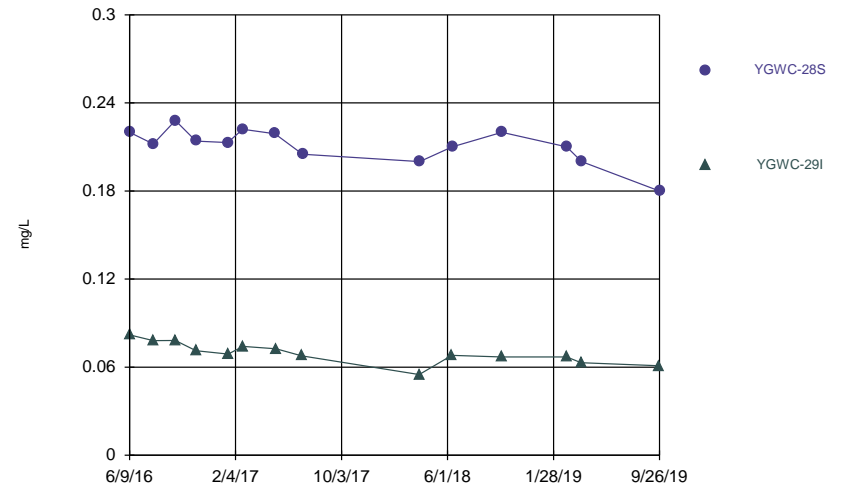
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



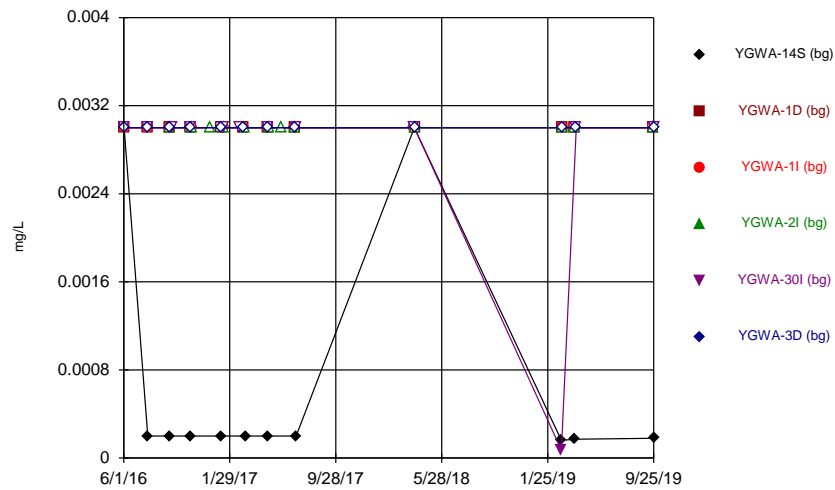
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



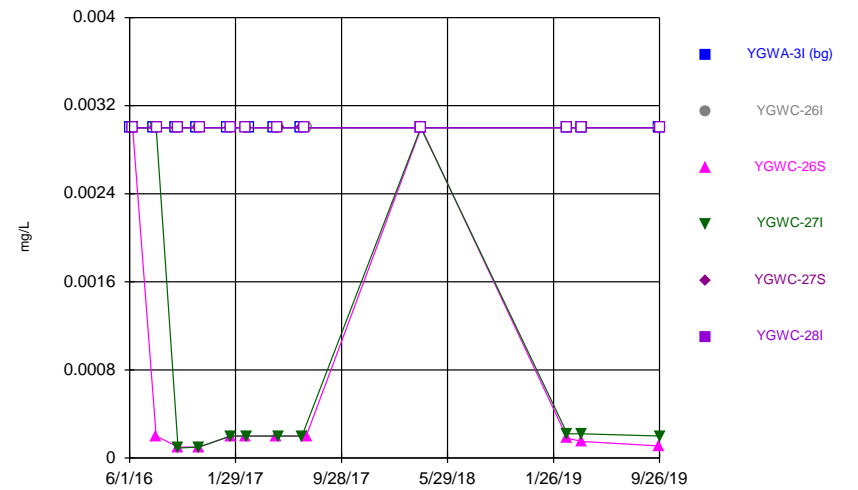
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



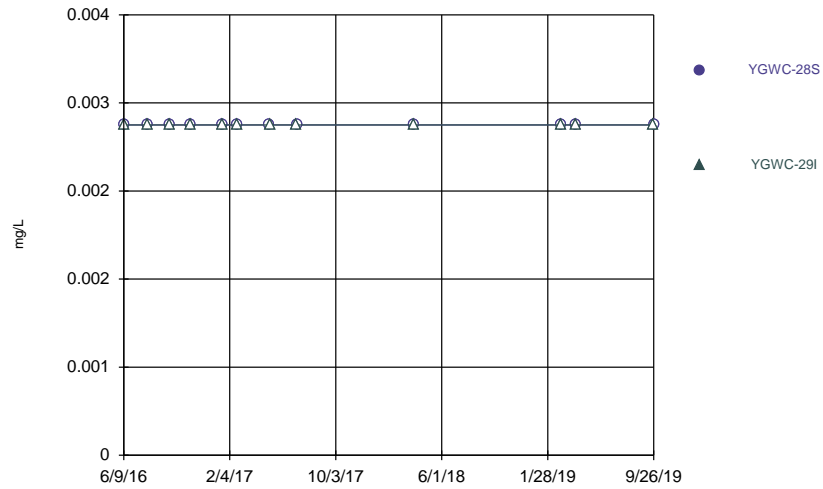
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



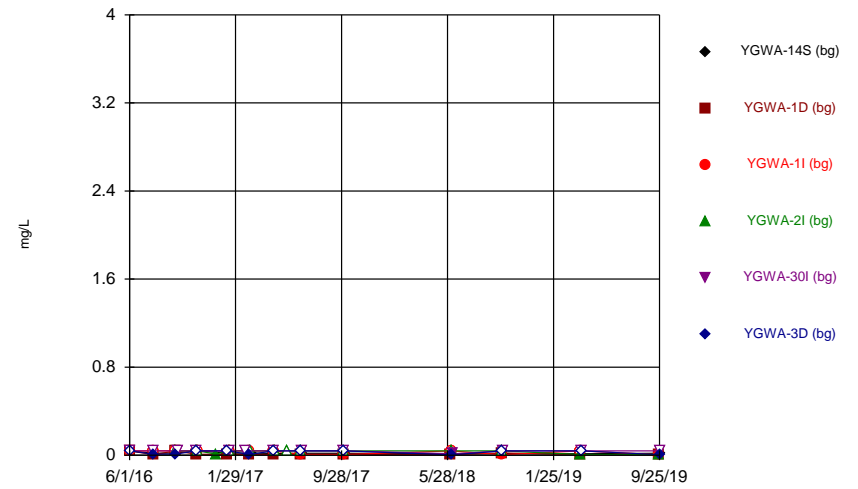
Constituent: Beryllium Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



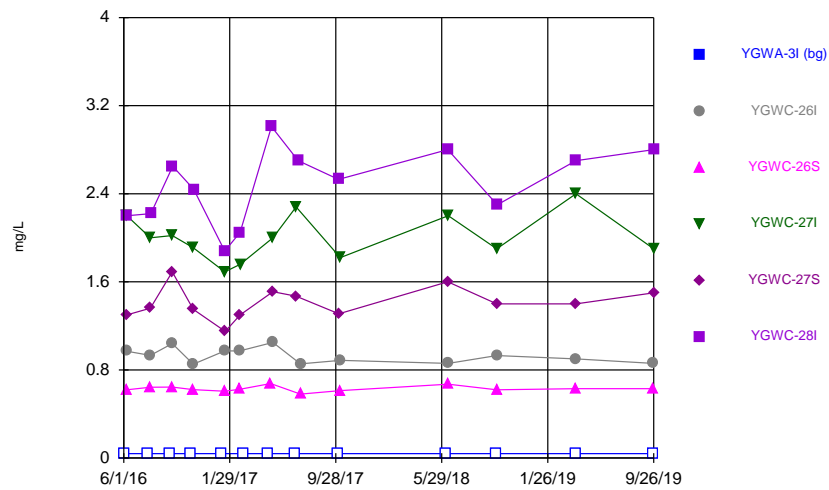
Constituent: Beryllium Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



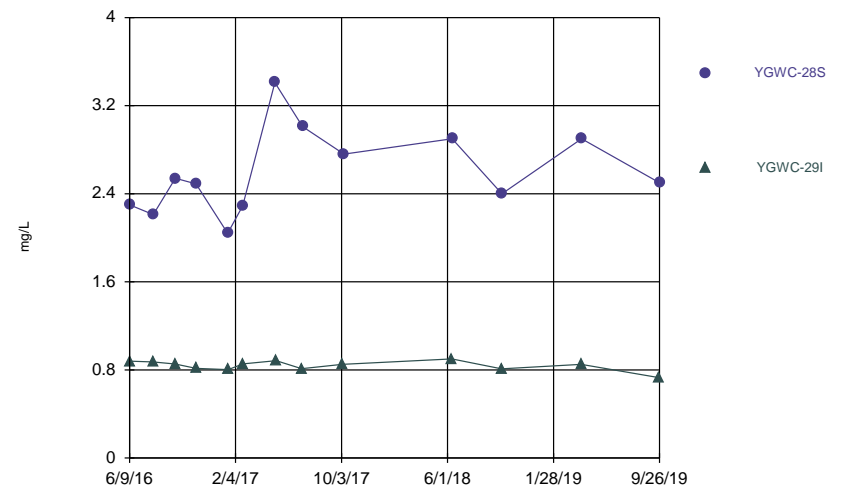
Constituent: Boron Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



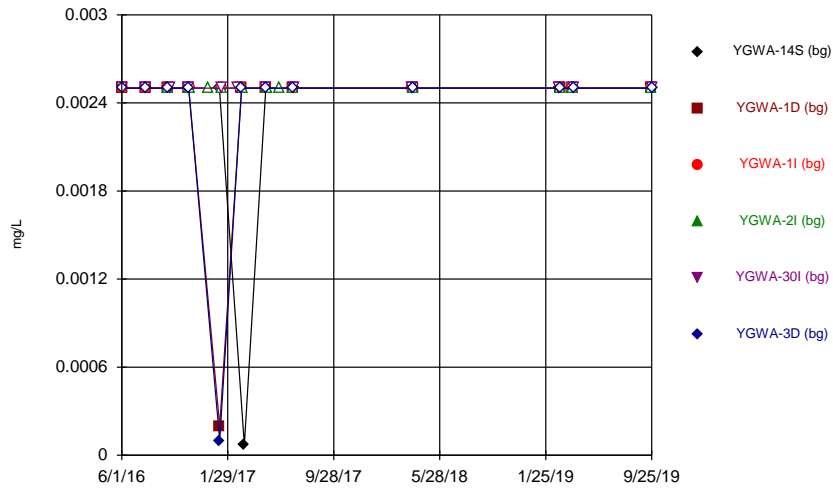
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



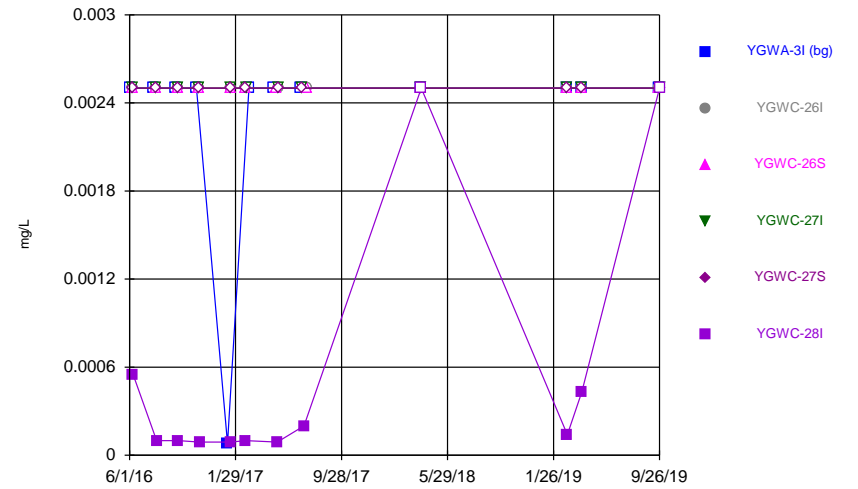
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



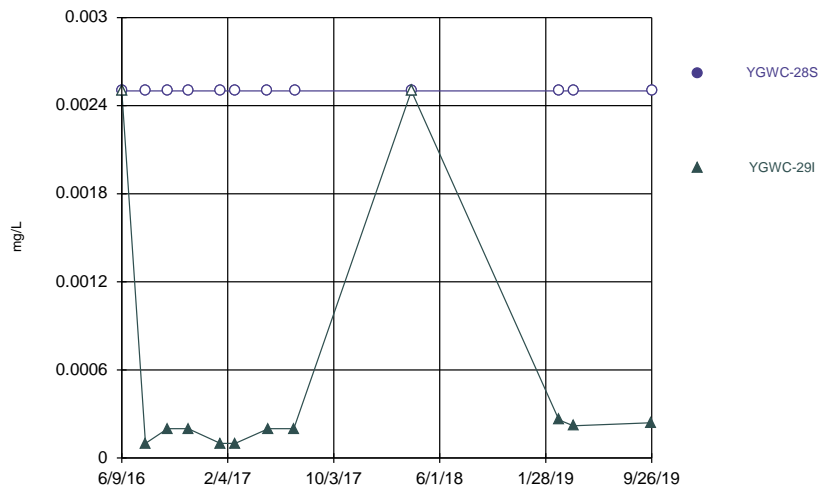
Constituent: Cadmium Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



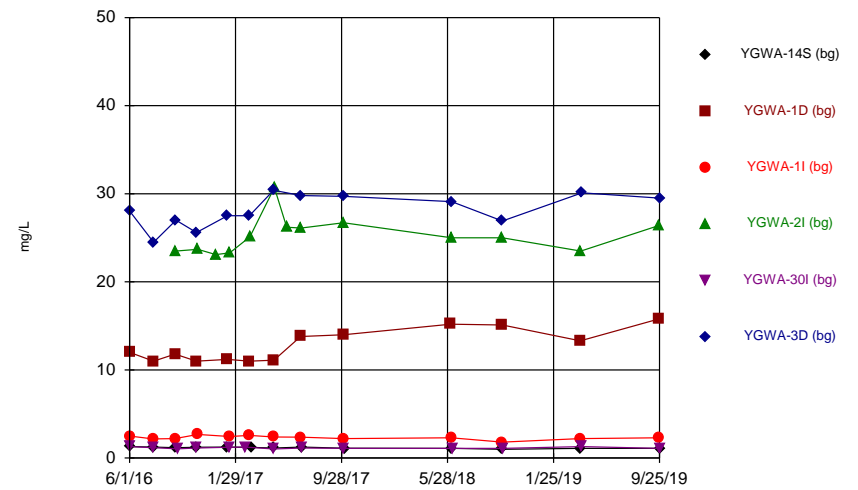
Constituent: Cadmium Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



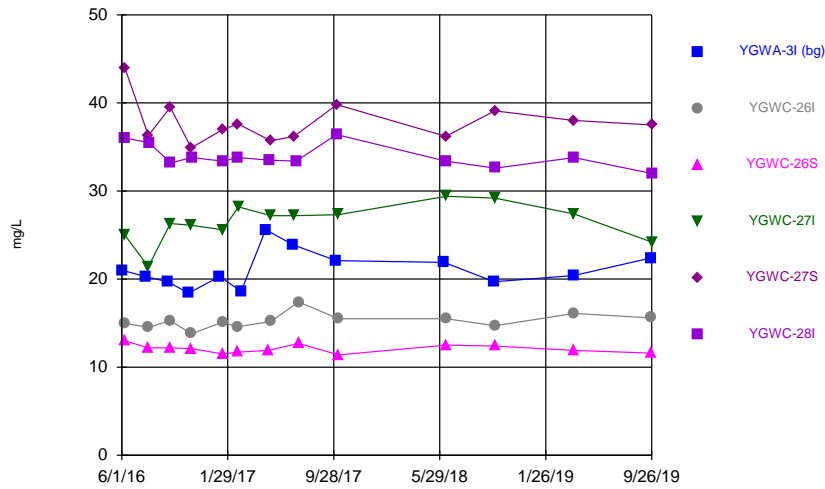
Constituent: Cadmium Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



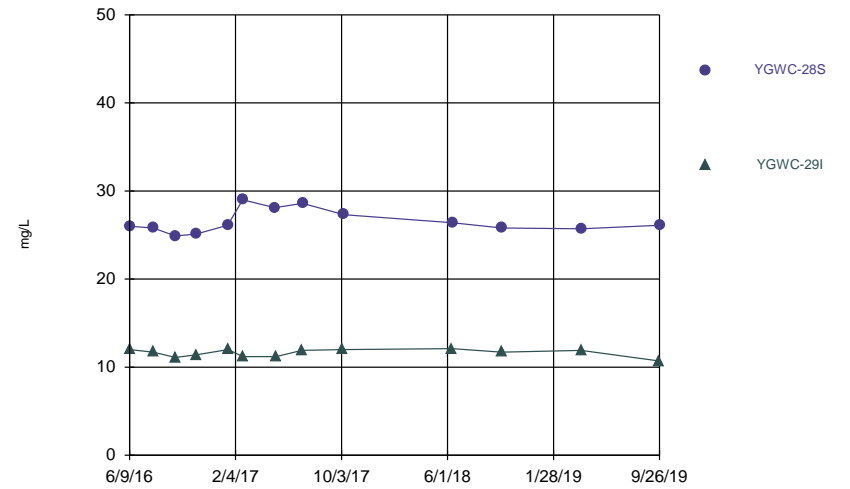
Constituent: Calcium Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



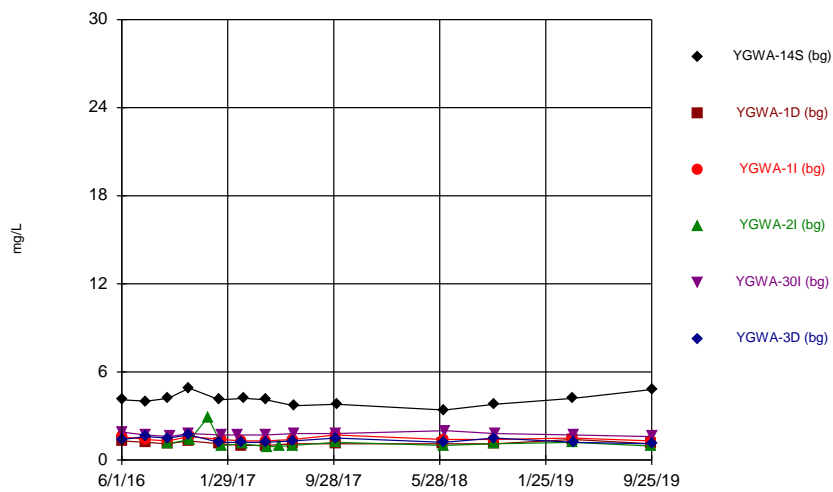
Constituent: Calcium Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



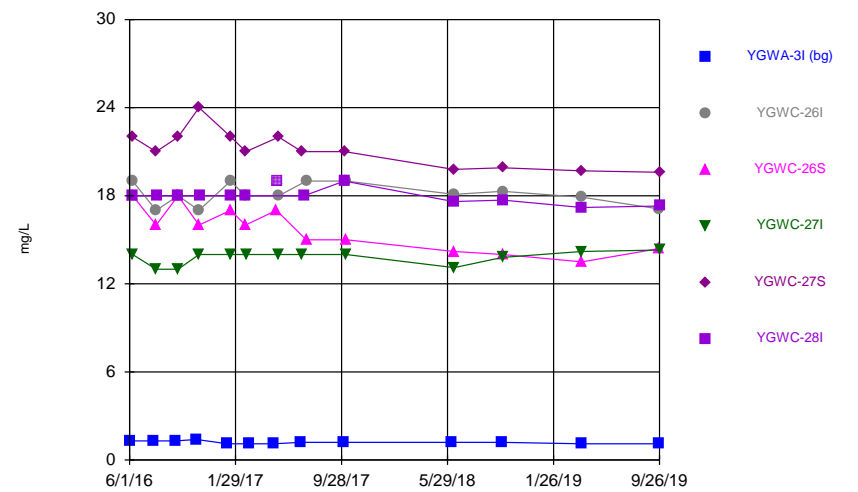
Constituent: Calcium Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



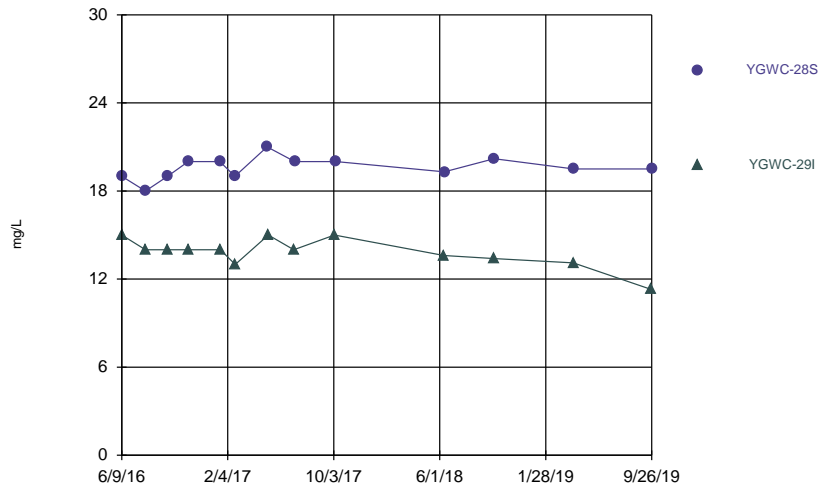
Constituent: Chloride Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

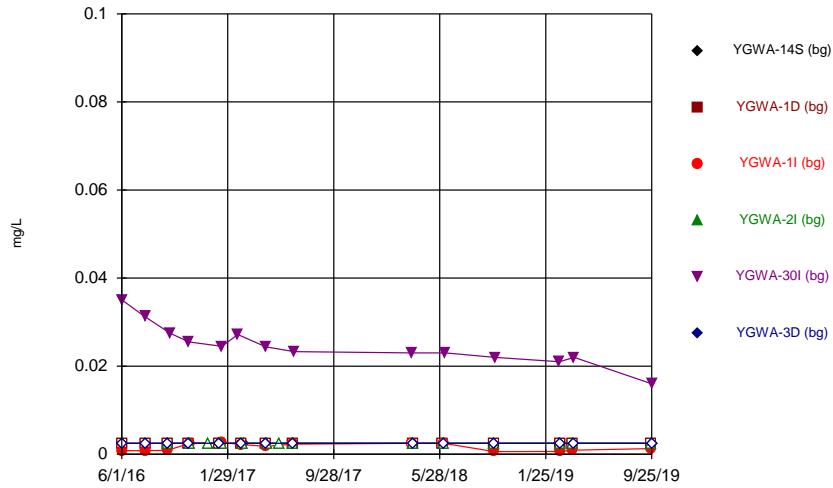


Constituent: Chloride Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series

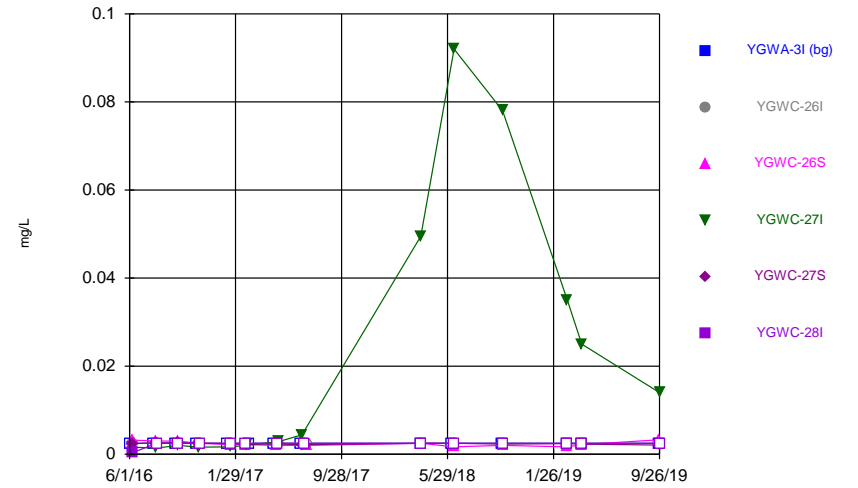


Time Series



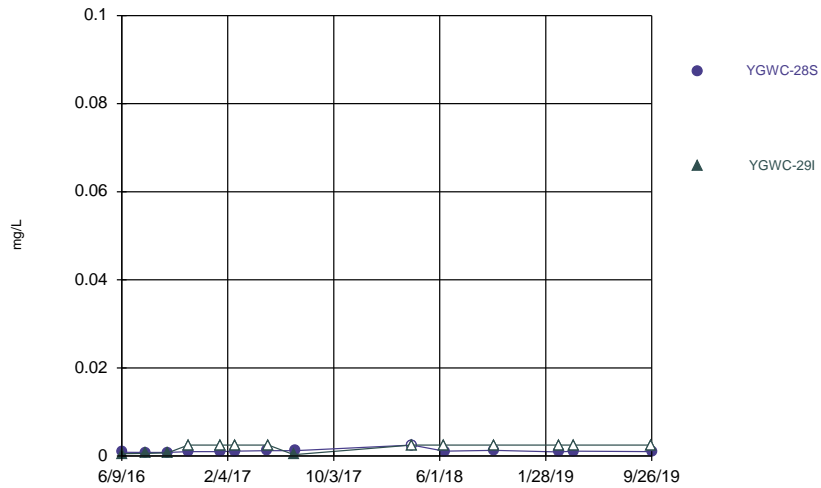
Constituent: Cobalt Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



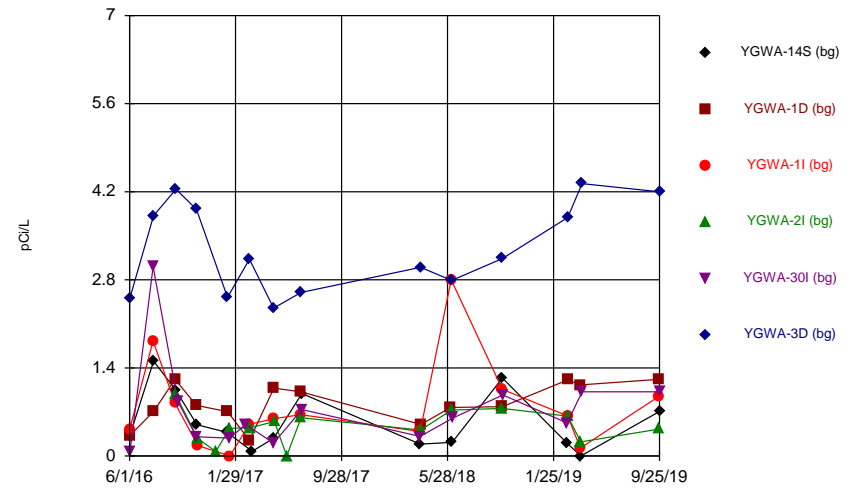
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



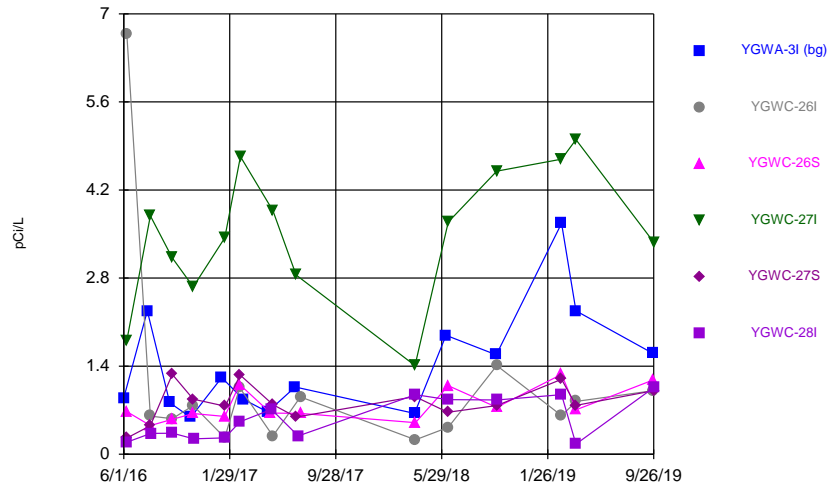
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



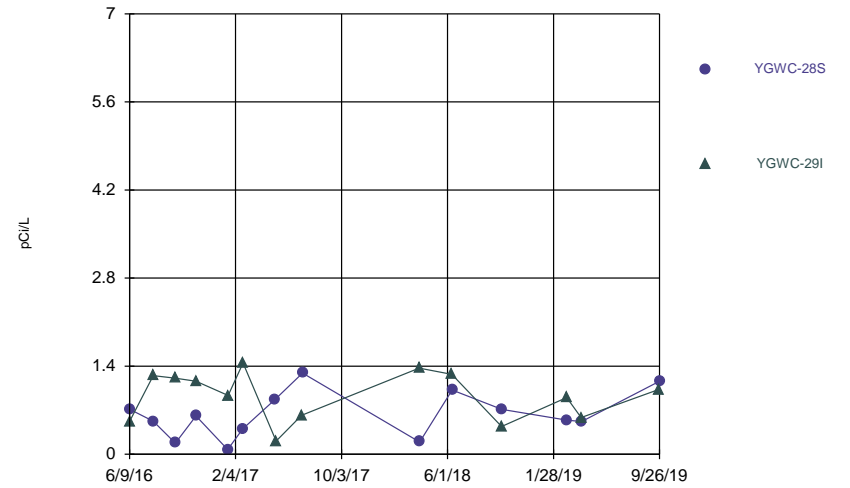
Constituent: Combined Radium 226 + 228 Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



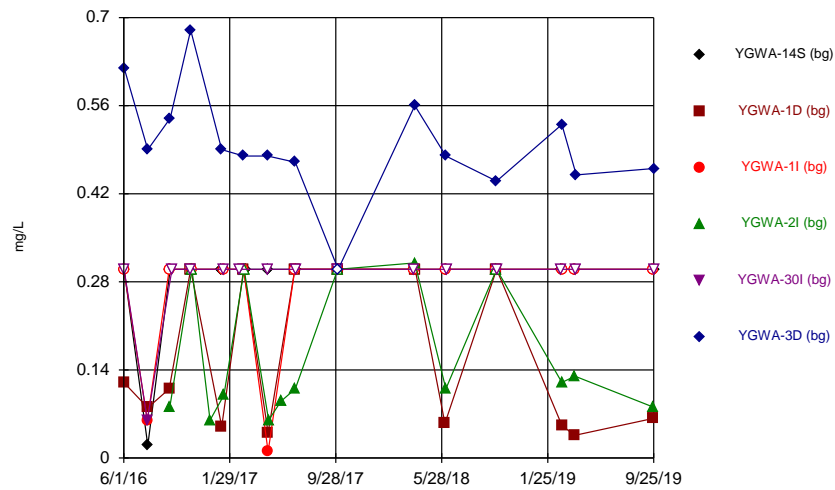
Constituent: Combined Radium 226 + 228 Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



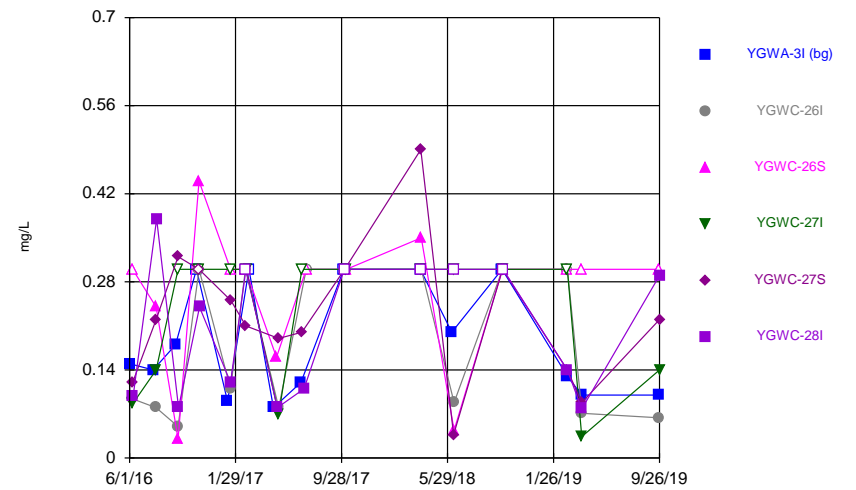
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



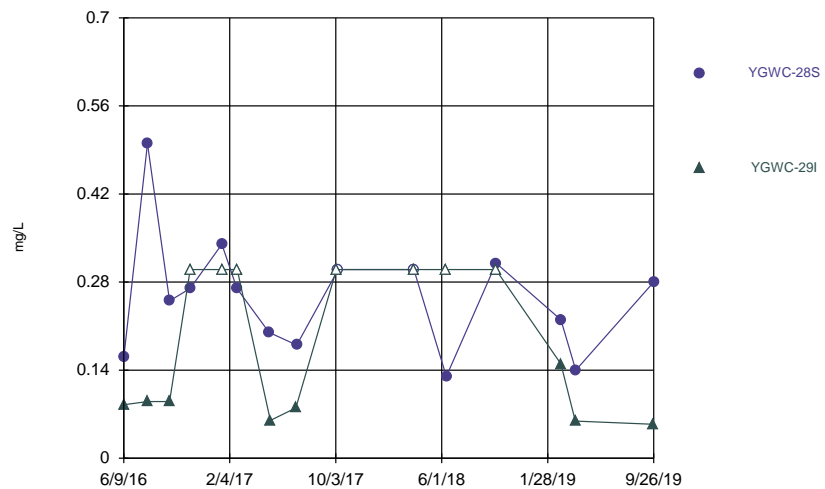
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



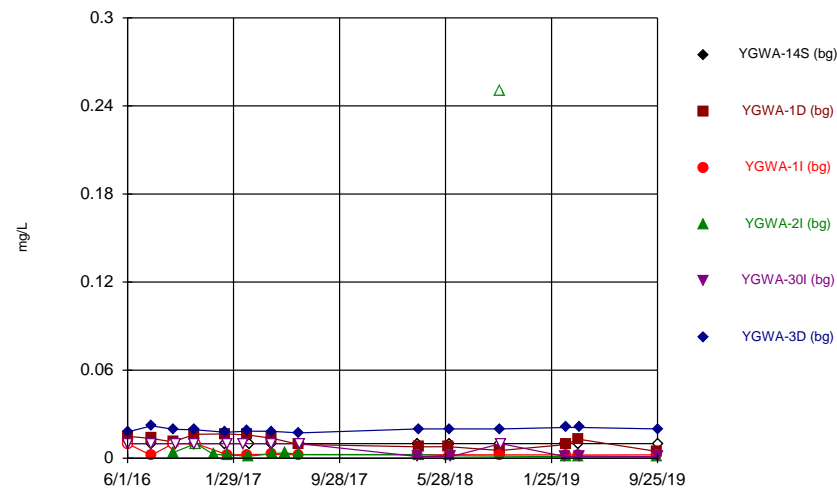
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



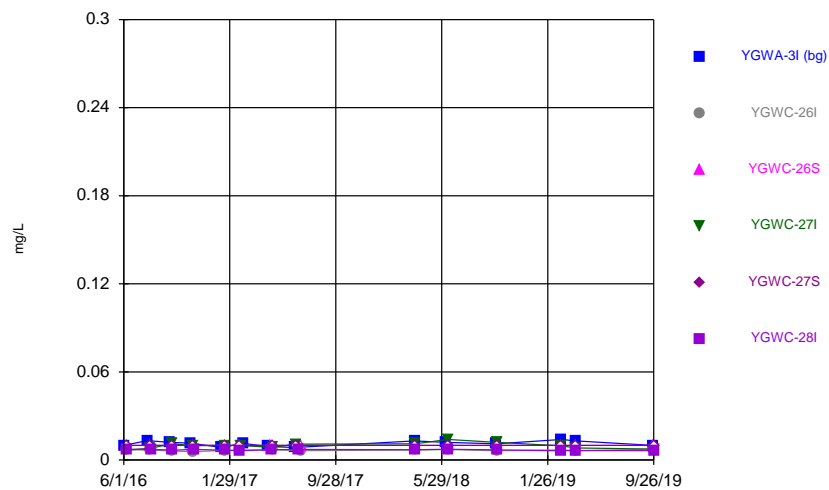
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



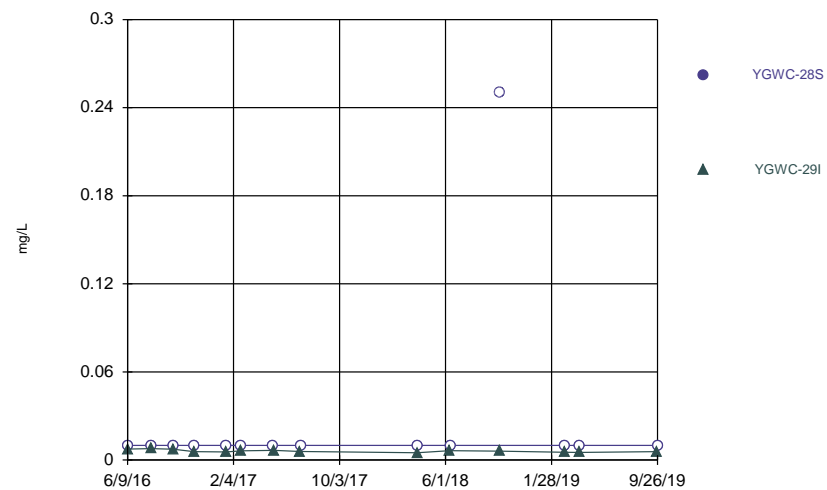
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



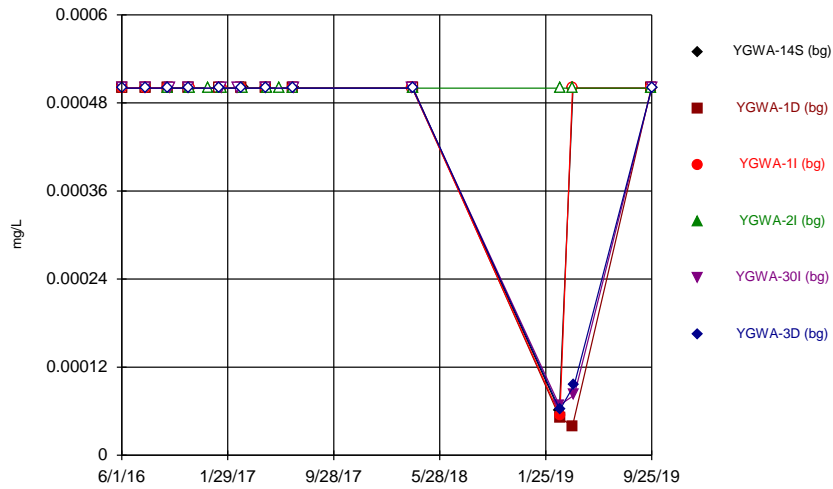
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



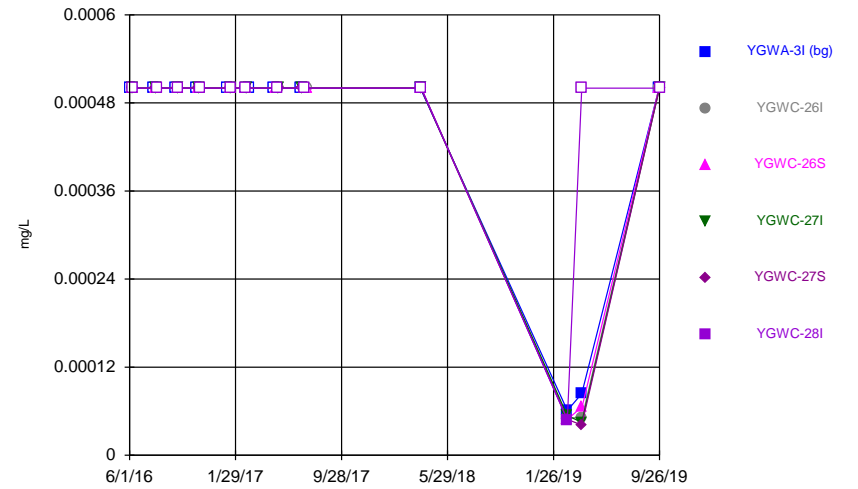
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



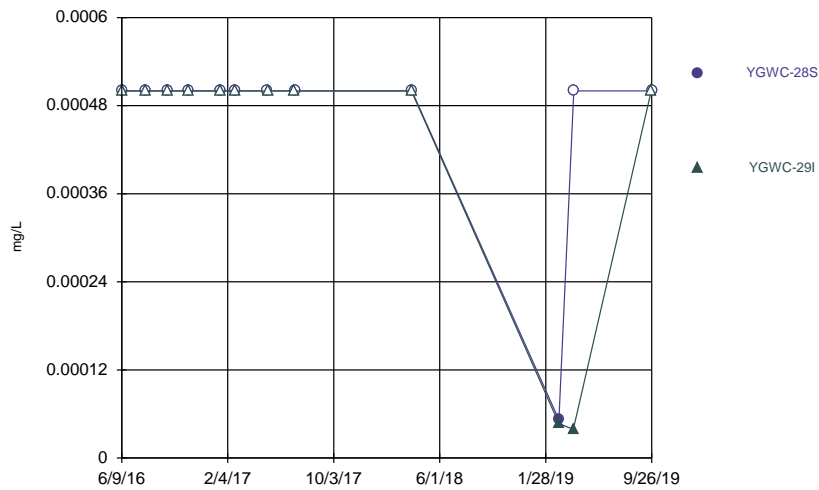
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



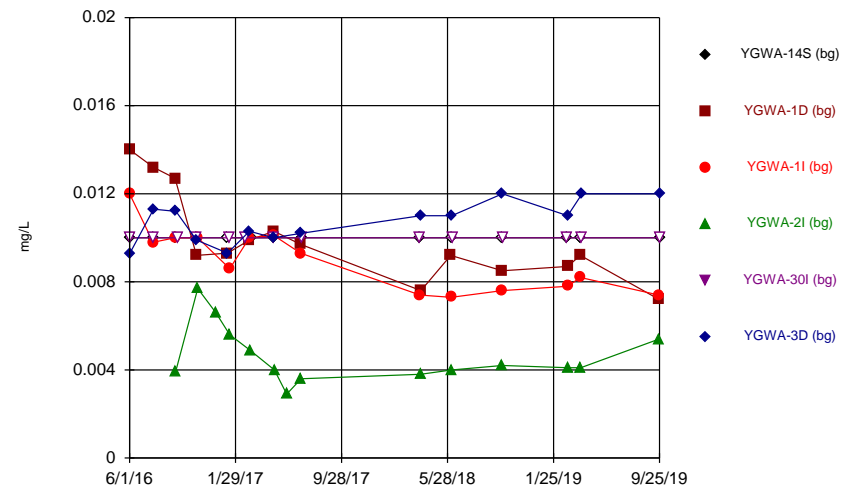
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



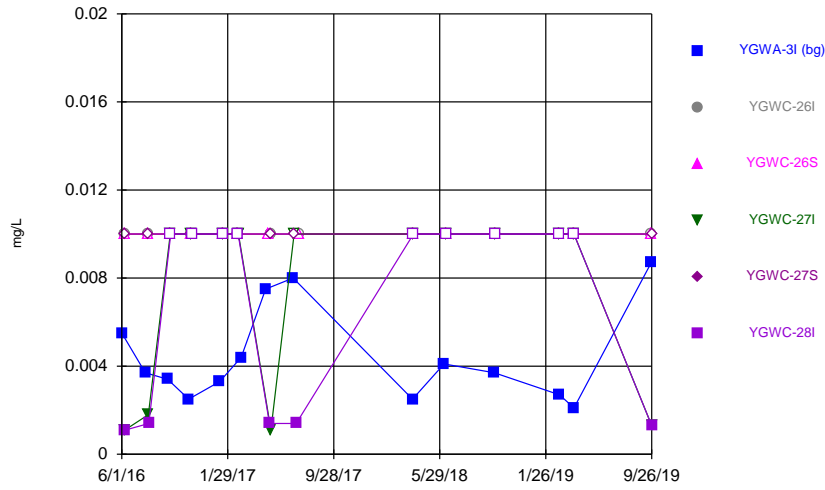
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



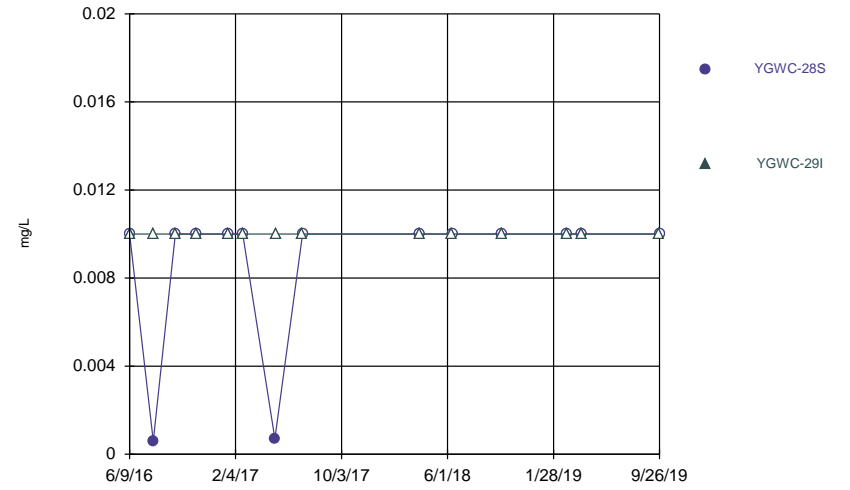
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



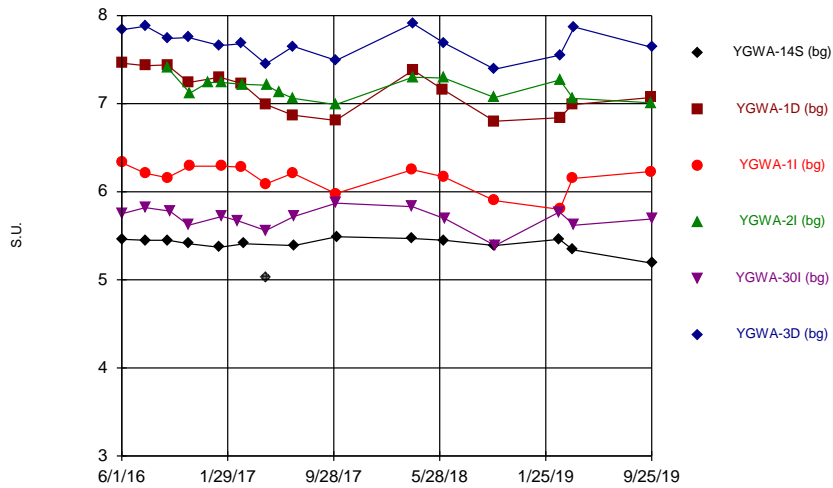
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



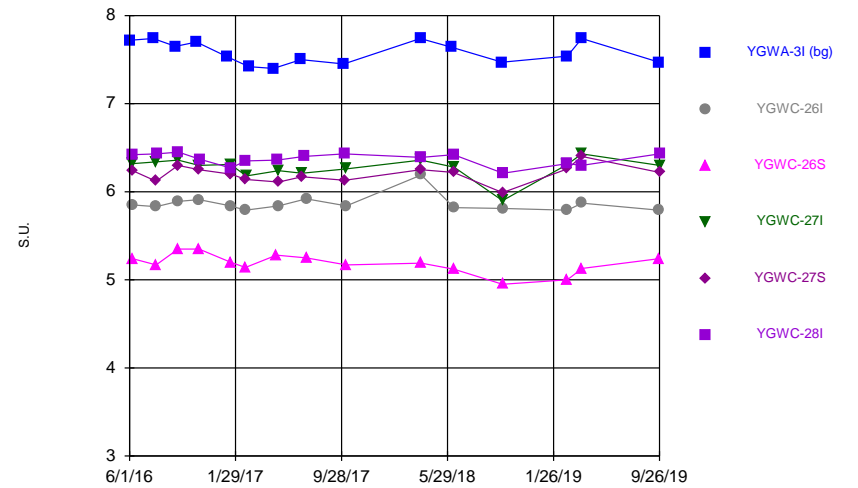
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



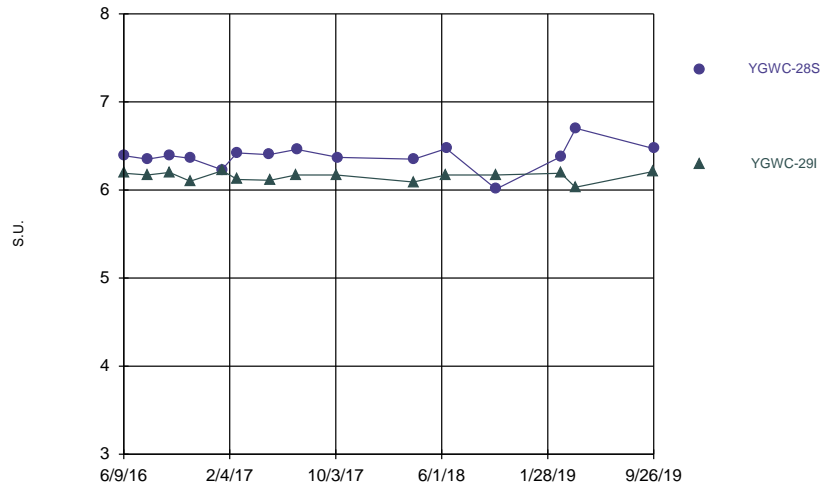
Constituent: pH Analysis Run 11/11/2019 3:05 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



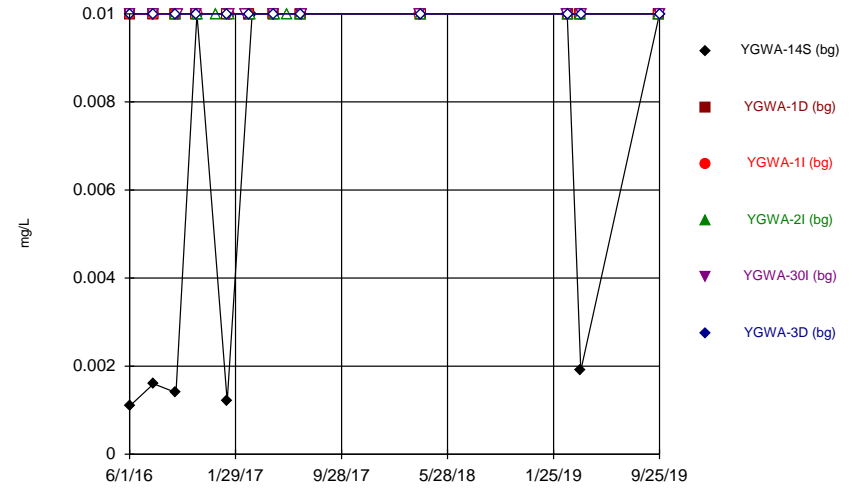
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



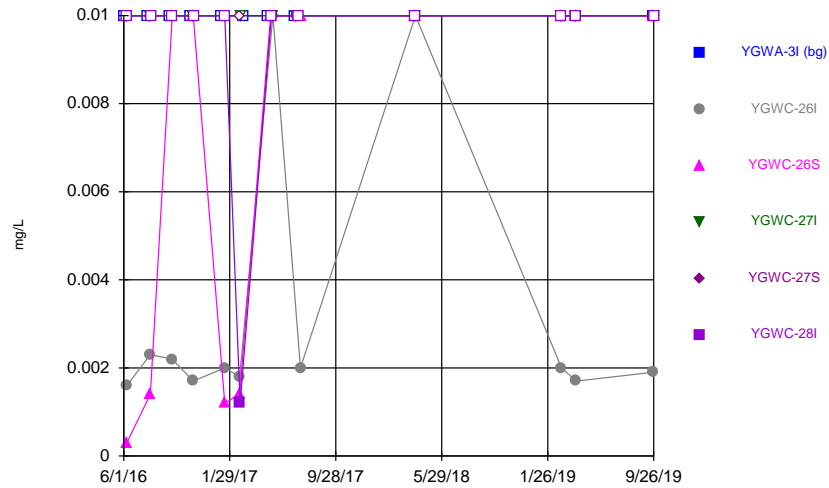
Constituent: pH Analysis Run 11/11/2019 3:05 PM View: Time Series
 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



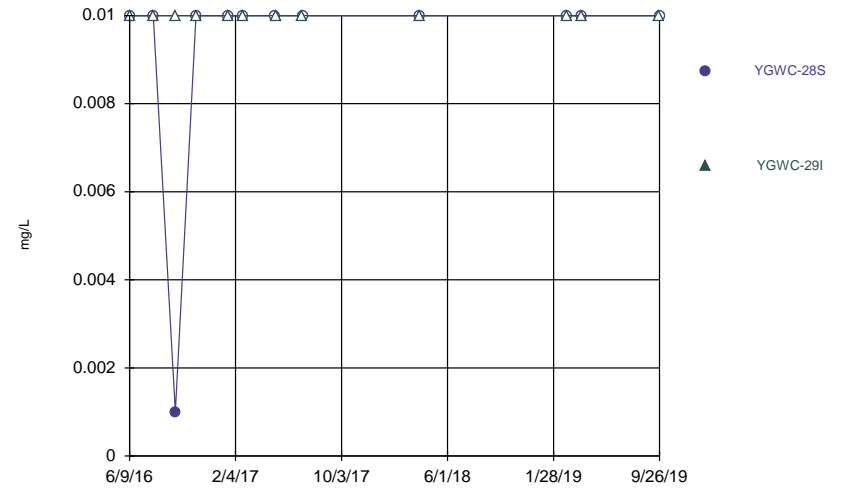
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



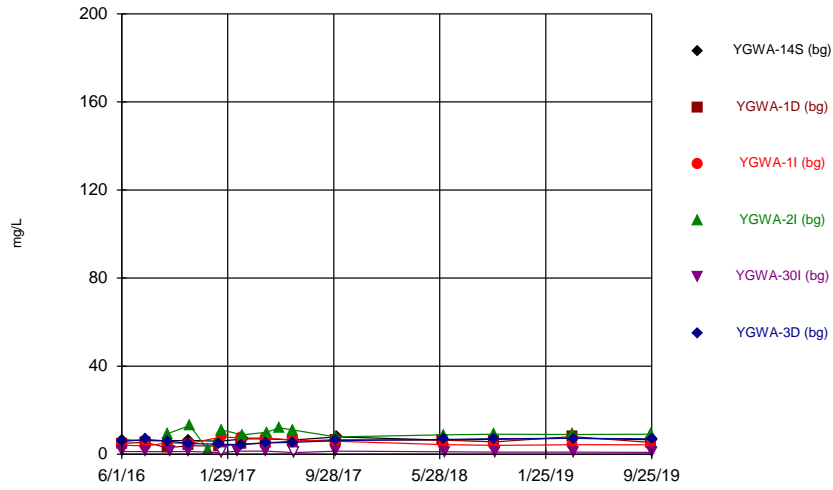
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



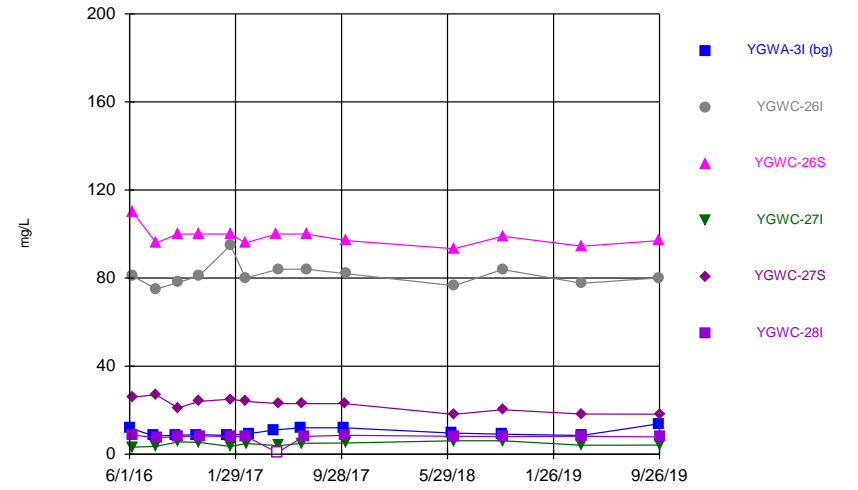
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 Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



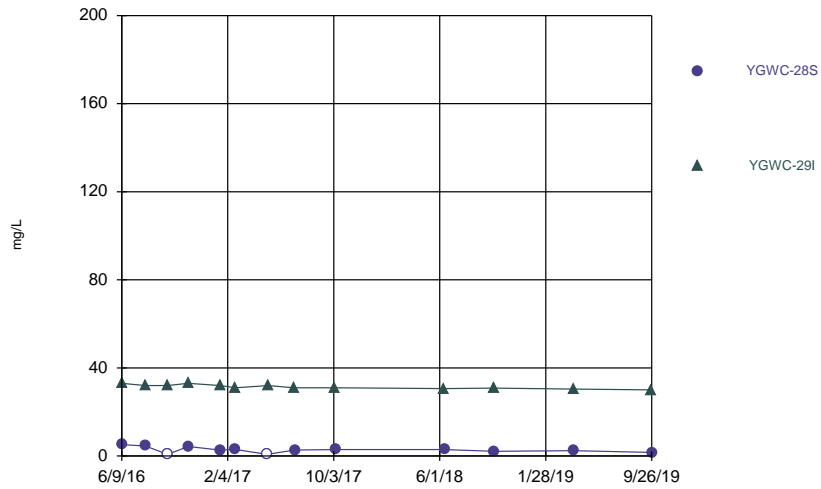
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



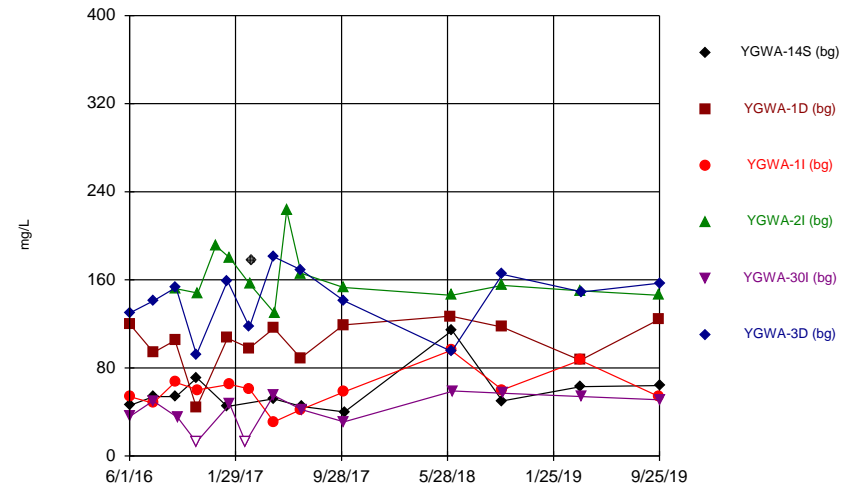
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



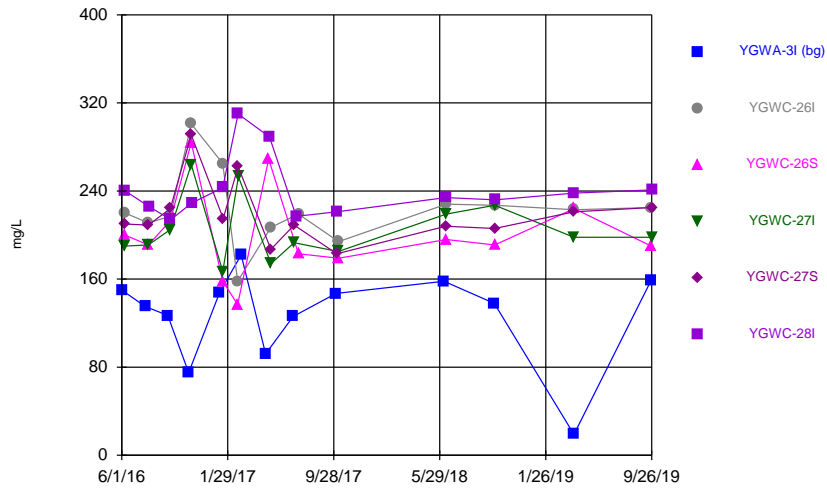
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Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



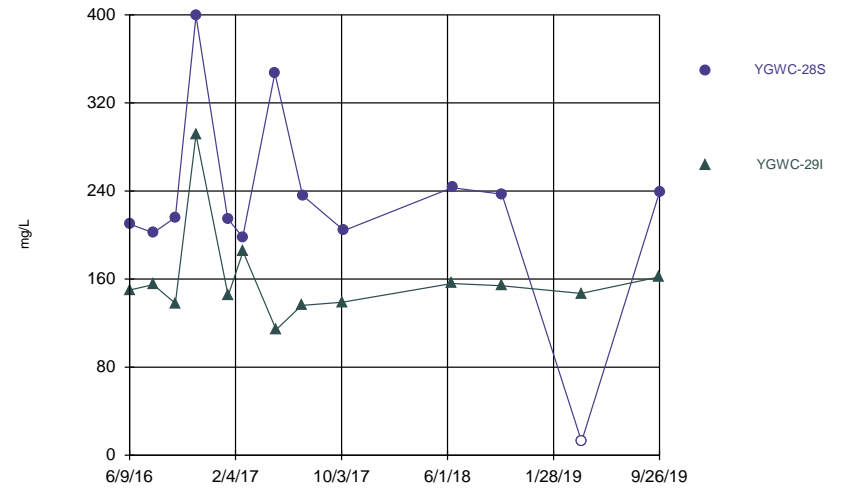
Constituent: Total Dissolved Solids Analysis Run 11/11/2019 3:06 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/11/2019 3:06 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2

Time Series



Constituent: Total Dissolved Solids Analysis Run 11/11/2019 3:06 PM View: Time Series
Plant Yates Client: Southern Company Data: Yates Ash Pond 2



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